

3.11 Stormwater Wetland		Sheet #	Yes/No	Comments
General				
1	What type of stormwater wetland practice is utilized? <input type="checkbox"/> Shallow wetland- shallow depression typically less than 1 foot deep <input type="checkbox"/> Extended detention shallow wetland [3.11 Stormwater Wetlands, page 217]			
Siting				
2	Is the contributing drainage area large enough to sustain a permanent water level within the stormwater wetland? [3.11.1 Stormwater Wetland Feasibility Criteria- Contributing Drainage Area, page 220]			
3	Is there a minimum setback of 10 feet from structures and property lines and waterproofing protection for foundation and basement? [3.11.1 Stormwater Wetland Feasibility Criteria- Setbacks, page 220]			
4	Were soil tests conducted to determine the saturated hydraulic conductivity and other subsurface properties of the stormwater wetland? [3.11.1 Stormwater Wetland Feasibility Criteria- Soils, page 221]			
5	If the stormwater wetland is located within jurisdictional waters, including wetlands, is a Section 404 permit included with the plan? [3.11.1 Stormwater Wetland Feasibility Criteria- Use of or Discharge to Natural Wetlands, page 221]			
6	If the stormwater wetland is located on a perennial stream, are Section 401 and Section 404 permits included with the plan? [3.11.1 Stormwater Wetland Feasibility Criteria- Perennial Streams, page 221]			
Design				
7	Is the stormwater wetland slope flat from inlet to outlet, with a maximum elevation drop between wetland cells of 1 foot or less? [3.11.2 Stormwater Wetland Conveyance Criteria, page 221]			
8	Does the stormwater wetland have overflow capacity to safely bypass the maximum design storm (e.g. 15-year and 100-year design storms)? [3.11.2 Stormwater Wetland Conveyance Criteria, page 221]			

9	<p>Is a forebay located at the inlet? Does the forebay meet the following criteria?</p> <ul style="list-style-type: none"> <input type="checkbox"/> 4-6 feet deep with a 4-6 feet wide aquatic bench at a depth of 1-2 feet below the water surface <input type="checkbox"/> Sized to contain 0.1 inches of runoff from the contributing drainage area <input type="checkbox"/> Metered rod in the center of the forebay pool to monitor sediment accumulation <input type="checkbox"/> Non-erosive exit velocities (4 feet/second at a 2-year event and 6 feet/second at a 15 year event) or the design includes an armored overflow <input type="checkbox"/> Direct maintenance access to the forebay <p>[3.11.3 Stormwater Wetland Pretreatment Criteria, page 222]</p>			
10	<p>Is a micropool located at the stormwater wetland outlet? Is it a 3- to 6- foot deep pool? [3.11.3 Stormwater Wetland Pretreatment Criteria, page 222]</p>			
11	<p>If extended detention is provided for management of larger storm events, does the total extended detention volume equal 50% or less than the total volume stored by the wetland? Is its maximum water surface elevation three feet or less above the normal pool? [3.11.4 Stormwater Wetland Design Criteria- page 223]</p>			
12	<p>Is approximately 25% of the stormwater wetland contained in at least 3 deeper pools (inlet, center, micropool outlet) with each pool having a depth of 18-48 inches? [3.11.4 Stormwater Wetland Design Criteria- Deep Pools, page 223]</p>			
13	<p>Does 70% of the stormwater wetland surface exist in the high marsh zone (-6 inches to +6 inches)? [3.11.4 Stormwater Wetland Design Criteria- High Marsh Zone, page 223]</p>			
14	<p>Does the flow path address the following requirements?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Minimum length to width ratio of 2:1 <input type="checkbox"/> Ratio of shortest flow path to overall length of at least 0.5 <input type="checkbox"/> If the ratio is not attained, drainage area of the inlet must not constitute more than 20% of total contributing drainage area <p>[3.11.4 Stormwater Wetland Design Criteria- Flow Path, page 223]</p>			
15	<p>Do internal structures create micro-topography, including above-pool vegetation, shallow pools, and deep pools? [3.11.4 Stormwater Wetland Design Criteria- Micro-Topographic Features, page 223]</p>			
16	<p>If the hydrology for the stormwater wetland is not supplied by groundwater or dry weather inputs, was Equation 3.29 Water Balance for Acceptable Water Depth in a Stormwater Wetland applied to assure that deep pools will not go completely dry during a 30-day summer drought? [3.11.4 Stormwater Wetland Design Criteria- Sizing for Minimum Pool Depth, page 224]</p>			

17	<p>If there is no base flow or groundwater, is the minimum permanent pool depth at least 21.2 inches? If there is additional water input to the stormwater wetland, is the minimum depth of the permanent pool calculated using Equation 3.30 Minimum Depth of Permanent Pool? [3.11.4 Stormwater Wetland Design Criteria- Sizing for Minimum Pool Depth, 225]</p>			
18	<p>Does the stormwater wetland include a landscaping plan jointly developed by an engineer and a wetlands expert or landscape architect? [3.11.6 Stormwater Wetland Landscaping Criteria, page 228]</p>			
19	<p>Does the landscaping plan contain the following:</p> <ul style="list-style-type: none"> - Plan view(s) with topography at a contour interval of no more than 1 foot and spot elevations throughout the cell showing the stormwater wetland configuration, different planting zones (e.g., high marsh, deep water, upland), microtopography, grades, site preparation, and construction sequence. - A plant schedule and planting plan specifying emergent, perennial, shrub and tree species, quantity of each species, stock size, type of root stock to be installed, and spacing. To the degree possible, the species list for the constructed wetland should contain plants found in similar local wetlands. <p>[3.11.6 Stormwater Wetland Landscaping Criteria, page 228]</p>			
Construction				
20	<p>Are the following notes included in the construction notes?</p> <ul style="list-style-type: none"> <input type="checkbox"/> All areas surrounding the stormwater wetland that are graded or denuded during construction of the wetland are to be planted with turf grass, native plant materials, or other approved methods of soil stabilization. <input type="checkbox"/> If the stormwater wetland serves as a sediment basin during construction, the facility will be dewatered, dredged, and re-graded to design dimensions after the original site construction is complete. <input type="checkbox"/> All areas surrounding the stormwater wetland that are graded or denuded during construction of the wetland are to be planted with turf grass, native plant materials, or other approved methods of soil stabilization. <input type="checkbox"/> During construction, the stormwater wetland must be separated from the contributing drainage area so no sediment flows into the wetland. <input type="checkbox"/> Add sand, compost, topsoil, or wetland mulch to all depth zones in the wetland <p>[3.11.5 Stormwater Wetland Construction Sequence , page 225]</p>			
21	<p>Does the plan contain the Stormwater Wetland Construction and Maintenance Inspection Checklists (Appendix L Construction Inspection Checklists and Appendix M Maintenance Inspection Checklists) or incorporate the checklists by reference? [Appendix L and Appendix M]</p>			

Maintenance				
22	<p>Does the maintenance plan contain the following?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Initial inspections during the first 6 months <input type="checkbox"/> Spot reseeding <input type="checkbox"/> Watering during the first growing season <input type="checkbox"/> Reinforcement plantings <input type="checkbox"/> Control of undesirable invasive species <p>[3.11.7 Stormwater Wetland Maintenance Criteria, page 232]</p>			
23	<p>Is the stormwater wetland included in the Declaration of Covenant?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Is the location and extent of the stormwater wetland a part of Exhibit B Site Plan? <input type="checkbox"/> Is the maintenance of the stormwater wetland a part of Exhibit C Maintenance Plan? <p>[3.11.7 Stormwater Wetland Maintenance Criteria- Declaration of Covenants, page 233]</p>			