**Post-Construction BMP Review Checklists**

**Project Wide Review Checklists for ODOT-Let Projects:**

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| --- | --- | --- |
| **Figures** | **Figure Provided?** |  |
| Project Limits |  | Yes / No |
| Limits of Disturbed Area |  | Yes / No |
| BMP Locations on a Site Plan |  | Yes / No |
| Drainage Areas |  | Yes / No |
| BMP Tributary Area (within and outside R/W) |  | Yes / No |
| Waters of the State |  | Yes / No |
| Floodplains and Wetlands (if applicable) |  | Yes / No |

|  |  |  |
| --- | --- | --- |
| **Design Drawings** | **Figure Provided?** |  |
| Plan Sheets with BMP Locations |  | Yes / No |
| BMP Plan and Profiles |  | Yes / No |
| BMP Outlet Details |  | Yes / No |
| Storm Sewer Plan and Profiles |  | Yes / No |

|  |  |  |
| --- | --- | --- |
| **Values, Calculations, or Descriptions** | **Value** | **Units** |
| Project Earth Disturbed Area (EDA) |  | ac |
| Existing Impervious Area (Aix) |  | ac |
| New Impervious Area in New Permanent R/W (Ain) |  | ac |
| Treatment Percent |  | % |
| Treatment Requirements (Area) |  | ac |
| Quantity Treatment Required? |  | Yes / No |
| Treatment Provided by all BMPs (Area) (within R/W) |  | ac |
| Treatment Provided by BMP #1 (Area) (within R/W) |  | ac |
| Treatment Provided by BMP #2 (Area) (within R/W) |  | ac |
| Treatment Provided by BMP #3 (Area) (within R/W) |  | ac |
| Treatment Provided by BMP #4 (Area) (within R/W) |  | ac |
| Description of any Deviation from Treatment Requirements |  |

**Manufactured System Review Checklist:**

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| **Manufactured System Review** | **Value** | **Units** |
| BMP Tributary Area |  | ac |
| Area within R/W Draining to BMP |  | ac |
| Percent Impervious (for BMP Trib. Area) |  | % |
| Coefficient of Runoff (C) |  | NA |
| Time of Concentration (TC) |  | minutes |
| Water Quality Flow (WQF) |  | cfs |
| Manufactured System Type |  | 1,2,3, or 4 |
| Unit Footprint (length, width, depth) |  | ft |
| Description of Maintenance Access |  | Yes / No |

**Vegetated Filter Strip Review Checklist:**



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| **Vegetated Filter Strip Review** | **Value** | **Units** |
| BMP Tributary Area |  | ac |
| Area within R/W Draining to BMP |  | ac |
| Width of Impervious Area Draining to Filter Strip |  | ft |
| Width of Vegetated Filter Strip |  | ft |
| Slope of Vegetated Filter Strip (Horizontal : Vertical) |  | ft:ft |
| Limits of Item 670, Slope Erosion Protection, Shown on the Plans? |  | Yes / No |
| Limits of Item 659, Topsoil, Shown on the Plans? |  | Yes / No |

**Vegetated Biofilter Review Checklist:**



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| **Vegetated Biofilter (Grass Swale) Review** | **Value** | **Units** |
| BMP Tributary Area |  | ac |
| Area within R/W Draining to BMP |  | ac |
| Percent Impervious (for BMP Trib. Area) |  | % |
| Coefficient of Runoff (C) |  | NA |
| Water Quality Flow (WQF) |  | cfs |
| Channel Bottom Width |  | ft |
| Channel Fore Slope (Horizontal : Vertical) (Z:1) |  | ft:ft |
| Channel Back Slope (Horizontal : Vertical) (Z:1) |  | ft:ft |
| Longitudinal Channel Slope |  | ft:ft |
| Normal Depth of Flow during WQF |  | in |
| Velocity of Flow for during WQF |  | fps |
| Length of Vegetated Biofilter |  | ft |
| Design Storm Flow Rate |  | cfs |
| Scour Analysis and Scour Protection (if necessary) |  | Yes / No |
| Limits of Item 670, Slope Erosion Protection, Shown on the Plans? |  | Yes / No |
| Limits of Item 659, Topsoil, Shown on the Plans? |  | Yes / No |

**Extended Detention Basin Review Checklist:**

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| **Extended Detention Basin Review** | **Value** | **Units** |
| BMP Tributary Area |  | ac |
| Area within R/W Draining to BMP |  | ac |
| Percent Impervious (for BMP Trib. Area) |  | % |
| Volumetric Runoff Coefficient (RV) |  | NA |
| Water Quality Volume (WQV) |  | ac-ft |
| Detention Basin Stage/Storage Table or Graph |  | Yes / No |
| Description of All Detention Outlets |  | Yes / No |
| Calculations of WQV Drawdown time |  | Yes / No |
|  Time to drain WQV |  | hrs |
|  Time to drain 50% of WQV |  | hrs |
| WQV Drawdown Hydrograph |  | Yes / No |
| Summary Input and Output from any Software Used |  | Yes / No |
| Forebay Volume |  | ac-ft |
| Micropool Volume |  | ac-ft |
| Inflow and Discharge Design Velocities |  | fps |
| Description of any Inflow or Discharge Scour Protection |  | Yes / No |
| Overflow Structure Sizing Calculations |  | Yes / No |
| Description of Tailwater Assumptions |  | Yes / No |
| Detention Basin located outside the Floodplain? |  | Yes / No |
| Limits of Item 670, Slope Erosion Protection, Shown on the Plans? |  | Yes / No |
| Anti-Seep Collars shown on the Plans? |  | Yes / No |
| Maintenance (Vehicle) Access to Outlet Structure? |  | Yes / No |
| Have Safety Concerns been Considered / Addressed? |  | Yes / No |

**Bioretention Cell Review Checklist:**

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**Source: ODNR Rainwater and Land Development Manual**

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| **Bioretention Cell Review** | **Value** | **Units** |
| BMP Tributary Area |  | ac |
| Area within R/W Draining to BMP |  | ac |
| Impervious area Tributary to BMP |  | ac |
| Bioretention Cell Area |  | ac |
| Surface Ponding Depth |  | ft |
| Side Slopes |  | ft:ft |
| Depth of Soil Media Layer |  | in |
| Depth of Filter Sand Layer |  | in |
| Depth of Filter Pea Gravel Layer |  | in |
| Depth of Gravel Drainage Layer |  | in |
| Underdrain shown in Drawing |  | Yes / No |
| Description of Pretreatment Provided |  | Yes / No |
| Inflow and Discharge Design Velocities |  | fps |
| Description of any Inflow or Discharge Scour Protection |  | Yes / No |
| Overflow Structure Sizing Calculations |  | Yes / No |
| Depth: Bottom of Cell to Seasonal High Water Table |  | ft |
| Depth: Bottom of Cell to Bedrock |  | ft |
| Maintenance (Vehicle) Access to BMP? |  | Yes / No |

**Post-Construction BMP Review Checklists**

**Project Wide Review Checklists for Local-Let Projects:**

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| --- | --- | --- |
| **Review Questions** | **Input** |  |
| Is a Post-Construction BMP Required? |  | Yes / No |
| Is the Project EDA 1 or more acres |  | Yes / No |
| Is the project a routine maintenance project |  | Yes / No |
| Is Water Quantity Treatment Required? |  | Yes / No |
| Is more than 1 acre of new impervious area in new permanent right-of-way being added? |  | Yes / No |
| Is the project discharging directly to a 4th order stream or a stream that has a drainage area greater than 100 square miles? |  | Yes / No |
| Is an Appropriate Post-Construction BMP Provided? |  | Yes / No |