



PE Certification Checklist for: Constructed Wetland Basin (CWB)

Grading

_____ Grading & slope grades completed per approved plans

Forebay

_____ Built per approved plans

Outlet Works

_____ Built per approved plans

_____ Trash rack per approved plans

Spillway Structure

_____ Built per approved plans

Soil Mixes

_____ Proper storage of soil mix prior to placement to ensure no cross contamination

_____ Soil mix correct per approved plans

_____ Load ticket verified

Access

_____ All weather vehicle access to pond bottom, forebay and outlet works

Vegetation

_____ Seed mix certified/correct per approved plans

_____ Load ticket verified

_____ Vegetation established adequate to control erosion (at least 70% of pre-disturbance levels)

WQCV and Elevations

_____ Permanent pool volume per approved plans

_____ WQCV per approved plans

_____ All elevations per approved plans

As built

_____ As built plans for permanent BMP

Recommended Key Phases for Observation

1. Final grading
2. Installation of forebay
3. Installation of spillway and outlet works
4. Vegetation established

Notes:

- 1) This checklist is not meant to be all inclusive and is for informational purposes only.
- 2) Initial all items that pertain to the approved plans.
- 3) Mark all items that do not pertain as N/A for not applicable.



PE Certification Checklist for: **Constructed Wetlands Channel (CWC) - No** **WQCV**

Grading

- _____ Grading & slope grades completed per approved plans
- _____ Riprap bank toe protection installed per approved plans
- _____ Load ticket verified

Soil Mixes

- _____ Proper storage of soil mix prior to placement to ensure no cross contamination
- _____ Soil mix correct per approved plans
- _____ Load ticket verified

Grade Control Structures

- _____ Correct number of drop structures installed
- _____ Drop structures installed per approved plans

Vegetation

- _____ Seed mixes certified/correct per approved plans
- _____ Load tickets verified
- _____ Bank vegetation established adequate to control erosion (at least 70% of pre-disturbance levels)
- _____ Channel bottom vegetation established to provide entrapment and biological nutrient uptake

Recommended Key Phases for Observation

1. Final grading
2. Installation of soil mixes
3. Armoring of channel bank toe
4. Installation of drop structures
5. Vegetation established in channel and on bank

Notes:

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PE Certification Checklist for: Extended Detention Basin (EDB)

Grading

_____ Grading & slope grades completed per approved plans

Inlets

_____ Dissipaters installed to decrease flow energy at pond inflow

Forebay

_____ Built per approved plans

_____ Forebay volume per approved plans

Low-Flow Channel

_____ Built per approved plans

Bottom Stage (micro-pool)

_____ Built per approved plans

_____ Bottom stage volume per approved plans

Outlet Works

_____ Built per approved plans

_____ Orifice plate or perforated pipe per approved plans

_____ Trash rack per approved plans

Spillway Structure

_____ Built per approved plans

Access

_____ All weather vehicle access to pond bottom and outlet works

Vegetation

_____ Seed mix certified/correct per approved plans

_____ Load ticket verified

_____ Vegetation established adequate to control erosion (at least 70% of pre-disturbance levels)

WQCV and Elevations

_____ WQCV per approved plans

_____ All elevations per approved plans

As built

_____ As built plans for permanent BMP

**Recommended Key Phases for
Observation**

1. Final grading
2. Installation of dissipater and forebay
3. Installation of low flow channel, outlet works structure spillway, and trash rack
4. Vegetation established

Notes:

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PE Certification Checklist for: Grass Buffer (GB) - No WQCV

Sheet Flow Control Type

Grading

- Grading & slope grades completed per approved plans
- Properly sized perforated underdrain installed per approved plan

Vegetation

- Seed mix certified/correct per approved plans
- Load ticket verified
- Vegetation established adequate to control erosion (at least 70% of pre-disturbance levels)

Or

Concentrated Flow Control Type

Grading

- Grading & slope grades completed per approved plans
- Level spreader-gravel trench-modular porous pavement-stabilized turf strip

Vegetation Check

- Seed mix certified/correct per approved plans
- Load ticket verified
- Vegetation established adequate to control erosion (at least 70% of pre-disturbance levels)

Recommended Key Phases for Observation

1. Final grading
2. Underdrain installation
3. Vegetation established

Notes:

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PE Certification Checklist for: Grass Swale (GS) - No WQCV

Trapezoidal Grass-Lined Swale Type

Grading

- Grading & slope grades completed per approved plans
- Properly sized perforated underdrain installed per approved plans

Soil Mix Materials

- Proper storage of BMP soil mix prior to placement to ensure no cross contamination
- Underdrain Aggregate correct per approved plans
 - Load ticket verified
- 1 Soil mix material (top layer) correct per approved plans
 - Load ticket verified
- 2 Soil mix material (lower layer) correct per approved plans
 - Load ticket verified

Vegetation

- Seed mix certified/correct per approved plans
 - Load ticket verified
- Vegetation established adequate to control erosion (at least 70% of pre-disturbance levels)

Recommended Key Phases for Observation

1. Final grading
2. Underdrain installation
3. Installation of soil mixes
4. Vegetation established

Or

Triangular Grass-Lined Swale Type

Grading

- Grading & slope grades completed per approved plans
- Underdrain (properly sized) installed per approved plans

Soil Mixes

- Proper storage of soil mix prior to backfill to ensure no cross contamination
- Underdrain aggregate correct per approved plans
 - Load ticket verified
- 1 Soil mix (top layer) correct per approved plans
 - Load ticket verified
- 2 Soil mix (lower layer) correct per approved plans
 - Load ticket verified

Vegetation

- Seed mix certified/correct per approved plans
 - Load ticket verified
- Vegetation established adequate to control erosion (at least 70% of pre-disturbance levels)

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PE Certification Checklist for: **Modular Block Porous Pavement (MBP) –** **No WQCV**

Grading

- Grading & slope grades completed per approved plans
- Concrete perimeter cell wall installed
- Properly sized perforated underdrain installed per approved plans
- Geotextile filter or impermeable liner installed

Soil Mixes (Porous Pavement infill and base coarse)

- Proper storage of soil mix prior to backfilling to ensure no cross contamination
- Soil Mix correct per approved plans
- Load ticket verified

Modular Block

- Modular block installed per manufacturers specification
- MBP void material correct per approved plans
- Load ticket verified

Vegetation (grass pave)

- Seed mix certified/correct per approved plans
- Load ticket verified

Recommended Key Phase for Observation

1. Final grading
2. Underdrain installation
3. Installation of soil mixes
4. Installation of modular block
5. Vegetation established

Notes:

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PE Certification Checklist for: Porous Landscape Detention (PLD)

Grading

- Grading & slope grades completed per approved plans
- Properly sized perforated underdrain installed per approved plans
- Geotextile filter or impermeable liner installed

Soil Mixes

- Proper storage of soil mix prior to backfill to ensure no cross contamination
- Underdrain aggregate correct per approved plans
 - Load ticket verified
- Soil mix correct per approved plans
 - Load ticket verified
- Sandy loam turf layer correct per approved plans
 - Load ticket verified

Overflow

- Overflow installed per approved plans

WQCV and Elevations

- WQCV per approved plans
- All elevations per approved plans

Vegetation/Plantings

- Seed mix certified/correct per approved plans
 - Load ticket verified
- Vegetation/Plantings established adequate to control erosion and per plan

As built

- As built plans for permanent BMP

Recommended Key Phases for Observation

1. Final grading
2. Underdrain installation
3. Installation of soil mixes
4. Installation of overflow
5. Vegetation established

Notes:

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- 3) Mark all items that do not pertain as N/A for not applicable.



PE Certification Checklist for: Porous Pavement Detention (PPD)

Grading

- Grading & slope grades completed per approved plans
- Concrete perimeter cell wall installed
- Properly sized perforated underdrain installed per approved plans
- Geotextile filter or impermeable liner installed

Soil Mixes (porous pavement infill and base course)

- Proper storage of soil mix prior to placement to ensure no cross contamination
- Soil mix correct per approved plans
- Load ticket verified

Modular Block

- Modular block installed per manufactures specification
- MBP void material correct per approved plans
- Load ticket verified

Overflow

- Overflow installed per approved plans

WQCV and Elevations

- WQCV per approved plans
- All elevations per approved plans

As built

- As built plans for permanent BMP

Recommended Key Phase for Observation

1. Final grading
2. Underdrain installation
3. Installation of soil mixes
4. Installation of modular block
5. Vegetation established

Notes:

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PE Certification Checklist for: Retention Pond (RP)

Grading

- Grading & slope grades completed per approved plans
- Properly sized perforated underdrain installed per approved plans

Soil Mixes

- Proper storage of soil mix prior to placement to ensure no cross contamination
- Underdrain aggregate correct per approved plans
 - Load ticket verified
- Soil mix correct per approved plans
 - Load ticket verified

Forebay

- Built per approved plans
- Forebay volume per approved plans

Outlet Works

- Built per approved plans
- Orifice plate or perforated pipe per approved plans
- Trash rack per approved plans

Overflow

- Built per approved plans

Spillway Structure

- Built per approved plans

Vegetation

- Seed mix certified/correct per approved plans
 - Load ticket verified
- Vegetation established adequate to control erosion (at least 70% of pre-disturbance levels)

Access

- All weather vehicle access to pond and outlet works

WQCV and Elevations

- Permanent pool volume per approved plans
- WQCV per approved plans
- All elevations per approved plans

As built

- As built plans for permanent BMP

Recommended Key Phases for Observation

1. Final grading
2. Underdrain installation
3. Installation of soil mixes
4. Installation of forebay
5. Installation of overflow, outlet works, and spillway
6. Vegetation established

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PE Certification Checklist for: Sand Filter Extended Detention Basin (SFB)

Grading

- Grading & slope grades completed per approved plans
- Properly sized perforated underdrain installed per approved plans
- Geotextile filter or impermeable liner installed

Soil Mixes (sand and gravel layers)

- Proper storage of soil mix prior to placement to ensure no cross contamination
- Underdrain Aggregate correct per approved plans
 - Load ticket verified
- Soil mix correct per approved plans
 - Load ticket verified

Forebay

- Built per approved plans
- Forebay volume per approved plans

Outlet Works

- Built per approved plans

Spillway Structure

- Built per approved plans

WQCV and Elevations

- WQCV per approved plans
- All elevations per approved plans

As built

- As built plans for permanent BMP

Recommended Key Phases for Observation

1. Final grading
2. Underdrain installation
3. Installation of soil mixes
4. Installation of forebay
5. Installation of overflow and spillway

Notes:

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- 3) Mark all items that do not pertain as N/A for not applicable.