Rule 5 Checklist - Section A : Construction Plan Elements

1. Index Showing Locations Of Required Plan Elements
Plan Elements A2-A23, B1-B15, & C1-C5 Are Addressed On This Sheet And Are As Follows:

2. 11x17 Inch Plat With Building, Lots, Boundaries, Road Layout Names
(An 11x17 Inch Plat Shall Be Submitted As A Separate Document To The Muncie/ Delaware County Stormwater Office

3. Narrative Describing Nature And Purpose Of Project
----
4. Vicinity Map Showing Project Location
----
5. Legal Description Of The Project Site
----
6. Location Of All Site Improvements
----
7. 14 Digit Hydrologic Unit Code
----
8. Note Any State Or Federal Water Quality Permits
----
9. Specific Points Where Storm Water Discharge Will Leave The Site
----
10. Location And Name Of All Wetlands, Lakes And Water Courses On And Adjacent To The Site
----
11. Identification Of All Receiving Waters
----
12. Identification Of Potential Discharges To Ground Water (Abandoned Well, Sinkholes, Etc.)
----
13. 100 Year Floodplains, Floodways, And Floodway Fringes
See Attached Flood Insurance Rate Map. (A Flood Insurance Rate Map Shall Be Submitted As A Separate Document To The Muncie/ Delaware Stormwater Office.)

14. Pre-Construction And Post Construction Estimate Of Peak Discharge

Rule 5 Reporting:
1. The 10 Year Pre-Construction Peak Discharge = _____(cfs)
2. The 10 Year Post Construction Peak Discharge = _____(cfs)

City Ordinance Reporting:
1. The 5 Year Pre-Construction Peak Discharge = _____(cfs)
2. The 5 Year Post Construction Peak Discharge = _____(cfs)
3. The 50 Year Post Construction Peak Discharge= _____(cfs)

15. Adjacent Land Use, Including Upstream Watershed
----

16. Construction Limits
See Erosion Control Sheets ---- For Construction Limits.

17. Identification Of Existing Vegetative Cover
----
18. Soils Map Including Soil Descriptions And Limitations
See Attached Soils Map. (Flood Insurance Rate Map Shall Be Submitted As A Separate Document To The Muncie/Delaware Co. Stormwater Office.) Limitations Are As Follows:----

19. Locations, Size And Dimensions Of Proposed Storm Water Systems (e.g. Pipes, Swales, And Channels)

----
20. Plans For Any Off Site Construction Activities Associated With This Project (Gas, Underground Electric, Sewer/Water Tie-ins, Etc.)
----
21. Locations Of Proposed Soil Stockpiles And/or Borrow Disposal Areas
----
22. Existing Site Topography At An Interval Appropriate To Indicate Drainage Patterns
See Sheet(s) ---- For Existing Contours.

23. Proposed Final Topography At An Interval Appropriate To Indicate Drainage Patterns
See I Sheet(s) ---- For Proposed Final Topography.

Rule 5 Checklist - Section B : Stormwater Pollution Prevention Plan-Construction Component Please Provide A Detail For Each BMP Utilized

1. Description Of Potential Pollutant Sources Associated With Construction Activities.
The Following Could Generate Potential Pollutants Associated With Construction Activities:
- A. Fueling Of Vehicles
- B. Leaking Equipment Or Vehicles
- C. Material Storage
- D. Site Demolition
- E. Excavation Of Materals
- F. Exposed Soils
- G. Construction Waste and Litter
- H. Sanitary Waste
- I. Concrete Waste and Washout
- J. Tracking of Soils Offsite

2. Sequence Describing Stormwater Quality Measure Implementation Relative to Land Disturbing Activities.
Preconstruction: (Unique to Site)
- A. Notify Muncie / Delaware County Stormwater Office. PH. 765-749-1114
- B. Contact the Indiana Underground Plant Protection Systems, Inc. to Verify the Location of Any and All Underground Utilities.
- C. Exhibit Rule 5 Information at the Job Site. Contractor Shall Designate a Person Responsible for On-Site Inspections and for Providing This SWPPP On-Site. Copies of the Inspections Shall Remain On-Site and Available for Review by the Muncie/ Delaware County Stormwater Inspector.
- D. ----.

Construction:
- A. Establish Construction Entrances.
- B. ----.

3. Stable Construction Entrance Locations and Specifications (At All Points of Ingress and Egress)
The Contractor Shall Utilize Existing Streets and Drives as Much as Possible for Construction Ingress and Egress.
The Contractor Shall Keep Public Roads and Private Drives Clear and Remove All Dust, Dirt, and Debris as a Result of Construction Activities. Temporary Construction Entrances Shall Meet The Requirements of the Construction Gravel Entrance as Shown on Sheet ----.

4. Sediment Control Measures for Sheet Flow Areas
----

5. Sediment Control Measures for Concertrated Flow Areas
----

6. Storm Sewer Inlet Protection Measure Locations and Specifications
----

7. Runoff Control Measures (e.g. Diversions, Rock Check Dams, Slope Drains, Etc.)
----

8. Stormwater Outlet Protection Specifications.
----

9. Grade Stabilization Structure Locations and Specifications.
----

10. Location, Dimensions, Specifications, and Construction Details of Each Storm Water Quality Measure.
See Sheet ---- For Erosion Control Details and Erosion Control Sheets ---- for Placement of Erosion Control Measures. Pipe size & Linear Footage, Number & Type of Structures.

11. Temporary Surface Stabilization Methods Appropriate for Each Season (Include Sequencing)
All Disturbed Areas Inactive for More Than 15 Days Require Temporary Seeding. See Sheet ---- for Seeding Details.

12. Permanent Surface Stabilization Specifications (Include Sequencing).
All Disturbed Areas Require Permanent Seeding Upon Final Grading. See Sheet ---- for Seeding Details.

13. Material Handling and Spill Prevention Plan
Vehicle and Equipment Maintenance: Onsite Vehicle and Equipment Maintenance Should Only Be Used Where It Is Impractical to Send Vehicles and Equipment Offsite for Maintenance and Repair. If Mantenance Must Occur Onsite, The Area Where Repairs are to be Made Must be Located Away From Drainage Courses. Drip Pans And/ Or Absorbent Pads Should Be Used During Vehicle and Equipment Maintenance Work That Involves Fluids, Unless the Maintenance Work is Performed Over an Impermeable Surface in a Dedicated Maintenance Area. Inspect Onsite Vehicles and Equipment Daily at the Startup for Leaks, and Repair Immediately. Properly Dispose of Used Oils, Fluids, Lubricants and Spill Cleanup Materials. Do Not Place Used Oil in a Dumpster or Pour into a Storm Drain or Watercourse.

Vehicle Fueling: Onsite Vehicle and Equipment Fueling Should Only be Used Where it is Impractical to Send Vehicles and Equipment Offset for Fueling. Drip Pans and Absorbent Pads Should be Used During Vehicle and Equipment Fueling, Unless the Fueling is Proformed Over an Impermeable Surface in a Dedicated Fueling Area. Nozzles Used in Vehicle and Equipment Fueling Shpuld be Equipped With an Automatic Shutoff to Control Drips. Fueling Operations Should Not be Left Unattended. Federal, State, and Local Requirements Should be Observed For Any Stationary Above Ground Storage Tanks. If Onsite Fueling Is Used, A Spill Kit Must Be Kept Nearby With Signage.

Debris Collection: To Prevent Clogging of the Storm Drainage System, Litter and Debris Removal From Drainage Grates, Trash, Rocks and Ditch Lines Should be a Priority. Construction Debris and Waste Should be Removed From the Site Biweekly or More Frequently as Needed. Construction Debris and Waste Should be Removed Stored in an Orderly Manner. Stormwater Runoff Should be Prevented From Contacting Stored Solid Waste.

Concrete Washout: Perform Washout of Concrete Trucks Offsite or in Designated Areas Only. Do Not Wash Out Concrete Trucks into Storm Drains, Open Ditches, Streets or Streams. Wash Water Must Be Contained And Not Allowed To Contaminate Ground Water. Do Not Allow Excess Concrete To Be Dumped On Site, Except In Designated Area.

For on Site Washout: Locate Washout Area at Least Fifty (50) Feet From Storm Drains, Open Ditches or Bodies Of Water; Do Not Allow Runoff From This by Constructing a Temporary Beam or Holding Area Large Enough For Liquid and Solid Waste; Wash Out Wastes Into the Designated Area Where the Concrete Can Set and be Broken Up and The Disposed of Properly.

Rule 5 Checklist - Section B : (Continued)

13. Material Handling and Spill Prevention Plan (Continued)
Alert Procedure for Spills: In the Event of a Material Spill (Fuel, Oil, Fluids, Lubricants, Etc.), Barricade the Area Allowing No Vehicles to Enter or Leave the Spill Zone. In The Event Of Any Spill, Notify The Muncie Sanitary District Bureau Of Water Quality At (765) 747-4896. Notify The Indiana Department Of Environmental Management (IDEM), Office of Emergency Response, by Calling the Appropriate Phone Number: Office 317-233-7745 or Toll Free: 800-233-7745. Also The National Response Center at 800-424-8802 and Provide The Following Information: Time of Observation of the Spill, Location of the Spill, Identify Material Spilled, Probable Time and Source of Spill, Weather Conditions, Personel at Scene and Action Initiated By Personnel. Notify the Local Fire Department and Police Department and the Muncie / Delaware County Stormwater office at 765-749-1114. Coordinate and Monitor Cleanup Until the Situation Has Been Stabilized and the Spill Has Been Eliminated.

14. Monitoring and Maintenance Guildlines for Each Proposed Storm Water Quality Measure.
The Contractor Shall Maintain All Water Quality Measures During Construction to Prevent any Blockages From Accumulated Sediment. Monitoring of the Protective Measures Shall be Done on a Weekly Basis and Again Within 24 Hours of Every Half-Inch Rain Event.

Maintenance Shall Include a Written Record of Each Inspection That is made Within 24 Hours of a Rain Event And Weekly. The Written Record Shall Be Made Available Upon Request.

Temporary Construction Entrance (If Needed): Inspect Weekly, With In 24 Hours Of Every Half-Inch Rain Event, And After Heavy Use.
- A. Reshape Pad As Needed.
- B. Top Dress Pad As Needed.
- C. Remove Immediately Any Mud And Sediment Tracked Or Washed Onto The Street Using Brushing Or Sweeping. Flush Area Only If Runoff Will Be Flowing Through A Sediment Trap.
- D. Repair Any Damaged Pavement Immediately.
- E. Remove And Replace Stone If Needed.

Silt Fence (If Needed):
- A. Replace If Torn, Starts to Degrade, Or Becomes Ineffective In Anyway.
- B. Remove Sediment When It Reaches Half Of The Fence Height Taking Care Not To Undermine.

Dewatering Structure:
- A. Remove Trash and Other Debris From Riser, Emergency Spillway, And Pool Area.
- B. Clean Or Replace Aggregate Around The Riser If Rhe Sediment Pool Does Not Dewater Within 48 to 72 Hours Following A Stormwater Runoff Event.
- C. Contact Stormwater Inspector Prior to Dewatering.
- D. Include Detail

Rock Check Dam (If Needed):
- A. Inspect Check Dams and the Channel After Each Storm Event, And Repair Any Damage Immediately. If Significant Erosion Occurs Between Dams, Install A Riprap Liner In That Portion Of The Channel.
- B. Remove Sediment Accumulated Behind Each Dam As Needed To Maintain Channel Capacity, To Allow Drainage Through The Dam, And To Prevent Large Flows From Discharging Sediment.
- C. Add Aggregate To The Dams As Needed To Maintain Design Height And Cross Section.

Inlet Protection (If Needed):
- A. Inspect Daily And After Each Storm And Remove Sediment.
- B. Remove Tracked Sediment From Street (But Not By Flushing With Water) To Reduce The Sediment Load On THe Inlet Protection.
- C. Fabric Below the Grate is Not Allowed.

Riprap (If Needed):
- A. Use Geotextile Under Layment.
- B. Check For and Repair Any Adjactent Erosion.
- C. Repair Washed Out Areas.

Erosion Control Blanket (If Needed):
- A. Install and Anchor According to Manufacturer.
- B. Repack And Reseed As Needed.
- C. Reattach And Anchor As Needed.

Temporary Seeding:
- A. Monitor Until It Reaches Seventy Precent Coverage.
- B. Reseed As Needed.
- C. Install Additional Erosion Control To Help Establish Cover.
- D. Apply Straw Mulch Or Anchored Blanket With Temporary Seed, Depending On Slope.
- E. Include Chart.

Check And Maintain Any Additional Erosion Control Measures As Needed.

15. Erosion And Sediment Control Specifications For Individual Building Lots.
Example Provided on Website: Muncie Sanitary. Org/ construction-swppp-submittal

Rule 5 Checklist - Section C : Storm Water Pollution Prevention Plan- Post Construction Component

1. Description Of Pollutants And Their Sources Associated With The Proposed Land Use.
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2. Sequence Describing Storm Water Quality Measure Implementation. (Provide A Sequence Of When The Proposed Post Construction Stormwater Quality Measures Will Be Installed).

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3. Description Of Proposed Post Construction Details Of Each Storm Water Quality Measure.
Reduce Discharge Of Expected Pollutants And Meet The Requitements Of Delaware Co. Ordinance 2017-11.
These Measures Must Be Provided On The Post Construction Agreement Form.

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4. Location, Dimensions, Specifications, And Construction Details Of Each Storm Water Quality Measure.
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5. Description Of Maintenance Guildelines For Post Construction Storm Water Quality Measures.
These Guidelines And Frequency Must Be Provided On The Post Construction Agreement Form.

Pre-Construction Meeting Required
The Site Owner Must Schedule A Pre-construction Meeting At Least 48 Hours In Advance Of Land Disturbance.
Please Contact The Stormwater Inspector At 765-749-1114, tcecil@msdeng.com

Reference:
ISWQM
IDEM Indiana Stormwater Quality Manual

SWPPP SHEET

Muncie SANITARY DISTRICT