



**City of Bowie, Maryland**  
**Department of Public Works**  
**Department of Planning and Economic Development**  
 15901 Excalibur Road; Bowie, MD 20716  
 (Phone: 301-262-6200; Fax 301-809-2309)

## Stormwater Management Final Plan Review Checklist

### SITE DESCRIPTION

Project/Subdivision Name: \_\_\_\_\_  
 Plan Alias: \_\_\_\_\_

Tax Map No	Parcel No.	Acreage	ADC Map/Grid
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### APPLICANT/CONSULTANT INFORMATION

#### OWNER

\_\_\_\_\_  
Name  
 \_\_\_\_\_  
Address  
 \_\_\_\_\_  
City, State, Zip Code  
 \_\_\_\_\_  
Telephone  
 \_\_\_\_\_  
Email Address

#### CONTRACT PURCHASER

\_\_\_\_\_  
Name  
 \_\_\_\_\_  
Address  
 \_\_\_\_\_  
City, State, Zip Code  
 \_\_\_\_\_  
Telephone  
 \_\_\_\_\_  
Email Address

#### SURVEY/ENGINEER

\_\_\_\_\_  
Name  
 \_\_\_\_\_  
Address  
 \_\_\_\_\_  
City, State, Zip Code

\_\_\_\_\_  
Telephone  
 \_\_\_\_\_  
Email Address  
 \_\_\_\_\_  
Contact Person

### LEGEND

_____ Acceptable	<u> X </u> Not Acceptable	<u> NA </u> Not Applicable
<u> R </u> Required Not Submitted	<u> INC </u> Incomplete	<u> NR </u> Not Reviewed

### REPORT

- \_\_\_\_\_ 1. All information provided in the Stormwater Management Site Development Report
- \_\_\_\_\_ 2. Table of contents with numbered pages
- \_\_\_\_\_ 3. Signed & sealed
- \_\_\_\_\_ 4. Professional certification
- \_\_\_\_\_ 5. A table showing the ESD and unified sizing criteria
- \_\_\_\_\_ 6. Hydrology and hydraulic analysis of the stormwater management system for all devices
- \_\_\_\_\_ 7. Final sizing calculations for stormwater controls including drainage area, storage, and discharge points
- \_\_\_\_\_ 8. Final analysis of stable conveyance to downstream discharge points
- \_\_\_\_\_ 9. Geotechnical investigations including soil maps, borings, site specific recommendations, and any additional information necessary for the final stormwater management design

- \_\_\_\_\_ 10. Elevation, discharge, and stage/storage tables
- \_\_\_\_\_ 11. Routing of necessary storms
- \_\_\_\_\_ 12. Outlet protection computations
- \_\_\_\_\_ 13. Anti-flotation computations
- \_\_\_\_\_ 14. Stability and seepage computations for weir structure
- \_\_\_\_\_ 15. Anti-seep collar/filter diaphragm computations
- \_\_\_\_\_ 16. Dam breach analysis
- \_\_\_\_\_ 17. Dam safety routing
- \_\_\_\_\_ 18. MD-14 Pond Summary Sheet
- \_\_\_\_\_ 19. Cost estimate

## PLAN REQUIREMENTS

- \_\_\_\_\_ 1. All information provided on the Stormwater Management Site Development Plan
- \_\_\_\_\_ 2. Final site layout showing any proposed improvements including location of buildings and other structures, impervious surfaces, storm drainage facilities, and all grading
- \_\_\_\_\_ 3. Location of existing and proposed structures and utilities
- \_\_\_\_\_ 4. Fee simple parcel dedication of residential SWM ponds and facilities. SWM access easements to public R/W for private, commercial SWM facilities. Easements for public storm drain through property.
- \_\_\_\_\_ 5. Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities
- \_\_\_\_\_ 6. Construction specifications
- \_\_\_\_\_ 7. Final erosion and sediment control plans showing limits of disturbance, sensitive areas, buffers, and forests that are to be preserved, proposed phasing, construction sequencing, proposed practices and stabilization techniques
- \_\_\_\_\_ 8. Sequence of construction
- \_\_\_\_\_ 9. Signed and sealed
- \_\_\_\_\_ 10. Professional certification
- \_\_\_\_\_ 11. Owner/Developer certification
- \_\_\_\_\_ 12. City of Bowie signature block (on all sheets) and As-built certification signature block on title sheet.
- \_\_\_\_\_ 13. Engineer's certification
- \_\_\_\_\_ 14. All soil boring logs and locations
- \_\_\_\_\_ 15. Inspection schedule for each different device
- \_\_\_\_\_ 16. Maintenance schedule for each different device
- \_\_\_\_\_ 17. Data for total site area, disturbed area, total impervious area, new impervious area, watershed
- \_\_\_\_\_ 18. Table showing the ESD and unified sizing criteria volumes
- \_\_\_\_\_ 19. Landscape plan and details
- \_\_\_\_\_ 20. Listing of materials to be used for stormwater management facility planting
- \_\_\_\_\_ 21. Necessary profiles of all devices
- \_\_\_\_\_ 22. Plan set includes title sheet, drainage area maps, plans and profiles, landscape plan, details and notes, table for ponds showing drainage area, structure classification, level of management, storage volume at top of dam, storage volume at emergency spillway crest, height of embankment, top width of embankment, storage-height product, inflows and outflows of 10 and 100-year storms, and freeboard
- \_\_\_\_\_ 23. 100-year floodplain protected by easement to be recorded.
- \_\_\_\_\_ 24. Provide 4'-6" high, black vinyl-coated chain link fence with 12'-wide double swing gate around ponds and MBRAs with side slopes greater than 4:1

## SUBMISSION

Plans submitted for review must have a hard copy sent to Frederick Ward Associates:

Bruce Beasman P.E

5 South Main Street

P.O. Box 727

Bel Air, MD 21014

Plans submitted for review must have a digital copy sent to the permits specialist. Digital copies must be a PDF on a CD, DVD, or flash drive.

## COMMENTS

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