



REVIEW CHECKLIST for STORMWATER MANAGEMENT PLANS

Version: April 2014

Development Name: _____

Location: _____

Reviewer: _____ Review # _____ Review Date: _____

Note: Plans must adhere to standards in the **Georgia Stormwater Management Manual (GSMM)** and the **Henry County Unified Land Development Code (ULDC)**. Below is a checklist of items which will be specifically identified; however the owner/developer is responsible for meeting all applicable local, state and federal regulations.

		Yes	No	N/A
Applicability (§8.04.01.C)				
1.	a. New development involves creation of at least 5000' sq	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. New development or redevelopment that involves one (1) acre or more	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Redevelopment that involves the creation, addition, or replacement of ≥5000'sq of impervious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. Land development activities that are smaller than the minimum applicability standards above, but is part of a larger common plan of development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Administrative Information				
2.	Statement of post-construction stormwater management system ownership is provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Engineer's Affidavit is included. (http://www.co.henry.ga.us/Stormwater/TechnicalDocuments.shtml)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.a	Floodplain statement referencing the 2006 FEMA FIRM panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.b	And the Henry County Present/Future Conditions Floodplain Map (http://www.co.henry.ga.us/Stormwater/FloodplainResources.shtml) is included.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Wetlands/state waters statement, both onsite and within 200' of site, is included.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	The watershed in which project is located is stated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	The existing total and proposed new amount of impervious surface (in square feet) is provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unified Land Development Code (ULDC) Requirements				
8.	A signed and notarized operation and maintenance agreement for the stormwater management system has been included (http://www.co.henry.ga.us/Stormwater/technicaldocuments/stormwater-om-agreement.pdf)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	The site contains area of special flood hazard. If yes...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. There is a floodplain management plan consistent with ULDC 3.01.02.B.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	The site is located within the future conditions floodplain. If yes...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. All conditions of ULDC 3.01.03.C are addressed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. If necessary, an engineering study per ULDC 3.01.03.D is provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	The site plan contains location of all streams (perennial and intermittent) on the property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Item #		Yes	No	N/A
12.	Limits of required buffers for both the 50' undisturbed and 25' impervious cover buffer are delineated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Forested and open areas within the buffer are delineated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	Storm drain pipes from street, ROW, and through lots in a subdivision extended to 10' from rear property line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Stormwater Management Plan			
	<i>Existing conditions. The following are included:</i>			
	a. Topographic map of existing site conditions (including lot lines, building footprints, and all impervious areas) with drainage basins delineated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Acreage, soil type, and land cover of areas for each sub basin affected by the project.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. All perennial and intermittent streams and surface water features.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. All existing stormwater conveyances and structures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e. Flow paths and flow exit points from site.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f. Analysis of runoff provided by the off site areas upstream of the project site.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	g. Methodologies, assumptions, site parameters, and supporting design calculations used in analyzing existing conditions hydrology.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Post development. The following are included:</i>			
	h. A topographic map of developed site conditions (including lot lines, building footprints, and all impervious areas) with the post development drainage basin boundaries indicated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	i. Total area of post-development impervious surfaces and other land cover areas for each sub basin affected by the project.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	j. Calculations for determining the runoff volumes that need to be addressed for each sub basin for the development project to meet post-development stormwater management performance criteria.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	k. Location and boundaries of proposed natural feature protection and conservation areas .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	l. Documentation and calculations for any applicable site design credits that are being utilized.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	m. Methodologies, assumptions, site parameters, and supporting design calculations used in analyzing the existing conditions site hydrology.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	A downstream peak flow analysis to the point in the drainage basin where the project area is 10% of the total basin area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Any vegetation to be placed within and adjacent to the stormwater management facilities are described.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.	Minimum 20' maintenance easement from a public ROW is included.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Georgia Stormwater Management Manual Requirements				
19.	Site design preserves the natural drainage and treatment systems and reduces the generation of additional stormwater runoff and pollutants to the fullest extent practicable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.	Stormwater management system is sized to capture and treat the water quality treatment volume (1.2" of rainfall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.	If site is considered a hotspot land use, appropriate structural stormwater controls and pollution prevention practices have been selected to address and treat runoff.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Item #

Yes No N/A

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|----|---|--------------------------|--------------------------|--------------------------|
| 22 | Channel protection is provided by using all of the following three approaches: (1) 24-hour extended detention of the 1-year storm event; (2) erosion prevention measures such as energy dissipation and velocity control; and (3) preservation of the applicable stream buffer | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 23 | Overbank flood protection is provided by controlling the post-development peak discharge rate to the predevelopment peak discharge rate to predevelopment rate for the 2-year thru 25-year storm event | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 24 | Erosion and sedimentation control practices are utilized during the construction phase. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 25 | Extreme flood protection is provided by controlling and safely passing the unrouted 100 year storm event. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 26 | A downstream hydrologic analysis has been performed (at the outlet of the site and downstream at each tributary junction to the point where the area of the site draining into the system is $\leq 10\%$ of the total drainage area above that point) to determine if there are any additional impacts in terms of peak flow increase or downstream flooding. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 27 | Annual groundwater recharge has been maintained to the extent practicable through the use of nonstructural methods. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 28 | Erosion and sedimentation control practices are utilized during the construction phase. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 29 | The site design includes a formal stormwater pollution plan per GSSM Vol. 3 (<i>Note: this item is not applicable until Georgia Stormwater Management Manual, Vol. 3 is released</i>) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 30 | Stormwater Quality Site Development Review Tool with at least 80% TSS Removal included. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Stormwater Conveyances

31. Pipe profiles are included with:

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|----|--|--------------------------|--------------------------|--------------------------|
| a. | existing and proposed ground surface profiles | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. | pipe size | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. | pipe lengths | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. | type | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. | slopes | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. | invert elevations | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| g. | contributing drainage area | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| h. | design (Q 100 for road x-ing and any off site flows, min. Q-50) hgl in pipe | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| i. | Roughness coefficients | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| j. | Run-off coefficients | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| k. | Inlet Tc | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

32. Culverts (Note: HCDOT will review all roadway culverts)

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|----|--|--------------------------|--------------------------|--------------------------|
| a. | Headwalls are provided for all metal culverts | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. | RCP is specified for all live streams | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. | Pipe diameter is at least 18" | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. | Pipe has been checked for inlet and outlet control | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. | Culvert is not skewed more than 45 degrees | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

33. Open Channels

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|----|--------------------------------------|--------------------------|--------------------------|--------------------------|
| a. | Channel identified by name or number | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. | Contributing drainage area | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

