

Project Name:

Name of Design professional _

Address:

Date: _

DeKalb County Planning & Sustainability Department

178 Sams Street Decatur. GA 30030

Lorraine Cochran-Johnson Chief Executive Officer

Juliana A. Njoku Director

Seal_

<u>Important note</u>: All drawings shall have the seal and signature of the design professional, along with the date the drawings were prepared.

LAND DEVELOPMENT – STORMWATER MANAGEMENT REVIEW CHECKLIST (Land Development Section's)

Date:

Parcel #:

Signature_

This checklist shall be submitted with your documents/drawings. Answers shall be provided to all items as "no" or "yes"; and if "no", you must explain why the item in question is not applicable.

	INFORMATION TO BE SHOWN ON THE PLANS AND HYDROLOGY/STORMWATER MGT REPORT		ΓΕΜ ESSED?	IF NO, EXPLAIN
1.	Address all applicable items on the Land Development - Site Plan	NO	YES	
	Review checklist			
2.	Development name on the cover of the report	NO	YES	
3.	Engineer's seal, signature, address and telephone number on the cover	NO	YES	
	of the report			
4.	Developer's name, address, and telephone number on the cover of the report	NO	YES	
5.	Date on the cover of the report vicinity map in the report	NO	YES	
6.	Vicinity map in the report	NO	YES	
7.	Add revision date(s) on the cover of the report	NO	YES	
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8.	Provide sta	atement o	f post-con	struction p	ond/storm	water dr	ainage	NO	YES	
	ownership in the hydrology/stormwater mgt report									
9.	Provide a 1	recorded	Stormwate	er Detentio	n Facility I	nspectio	n and	NO	YES	
	Maintenar	nce Agree	ment whic	ch must in	clude the r	equired	exhibits as			
	well as the	post con	struction	inspection	, operation	and mai	ntenance			
plans										
10.		ouffer vari	ance is req	uired for e	ncroachme	nt into t	he stream	NO	YES	
	buffers									
11.	Contact th	e Army C	orps of En	gineers (A	CoE) for pe	rmit		NO	YES	
	determina	tion/appr	oval. ACoI	E approval :	is required	prior to	stormwater			
	plan appro	oval if it ap	pplies to th	e proposed	d scope of w	vork.				
12.	Provide flo	od study	per the Flo	ood Plain N	/lanagemen	t Ordina	nce and in	NO	YES	
	accordance	e with FE	MA approv	ed method	dology if it a	applies.				
IF a LO	MR or CLO	MR. etc. i	s needed.	the Applica	ant must se	nd docui	ments to			
	v/copy sent			ene rippire	ane mase se	na aocai	incines to			
13	13. Does your submittal/hydrology report address the following: runoff				NO	YES				
reduction volume (RRV), channel protection volume, over-bank flood										
				-	l ten-percei					
	analysis?	, extreme	nood prot	ection, unc	ten percei	ii dowiii	cream			
	-									
14.		_					ided provide	NO	YES	
		,			soil characte					
	topograph	y related i	to best pra	ctices for r	unoff reduc	ction volu	ıme			
15.	Provide ex	ecutive su	ımmary of	the report	's findings t	o includ	e a table	NO	YES	
	similar to:									
Basin	Drainage Area	Return	Precipitation	Pre-	Post-	Ponding	Storage			
	-	Frequency Storm (yrs)	Value for 24 hour Event (inches)	development Flow (cfs)	development Flow (cfs)	Elevation (ft MSL)	(cubic feet)			
		2								
		5								
		10 25								
		50 100								
10% D	I.S.	100								
	16. DeKalb County requires post development release flow rates not to						NO	T/EC		
16.			_	_	nt reiease fl	ow rates	not to	NO	YES	
	exceed pre	-aevelopi	nent flows	i						



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17.	Include a narrative paragraph/summary in the report that includes a	NO	YES	
	description of existing site, soils, slopes, vegetative cover, and proposed improvements, methodologies and procedures, calculations, summary of results and a conclusion detailing the findings of the drainage investigation.			
18.	Discuss both existing and proposed drainage patterns, land use, land	NO	YES	
	cover, land slopes, hydrologic soil group, segmented times of			
	concentration, and the method for estimating storm water runoff (S.C.S.). Incorporate Green Infrastructure/Low Impact Development			
	practices where practical.			
19.	County codes require that the curve number for wooded condition be	NO	YES	
	used for ALL onsite basin. No weighted curve number needs to be calculated for the pre-development basin(s), simply use the CN for			
	wooded condition.			
20.	For subdivisions, the maximum lot coverage required by the zoning	NO	YES	
	codes must be used for each proposed lot, as the total impervious area for the hydrology study.			
	If the maximum lot coverage is not used, then the square footage of			
	proposed impervious accounted for each lot must be indicated and the			
	final plat must then specify that maximum impervious surfaces to be created on the lot(s). The building permit drawings for each lot must then reflect the same value(s).			
21.	State the existing and proposed impervious surface by acre and percent of site for each basin.	NO	YES	
22.	Provide a breakdown of proposed impervious surface by roofs, roads,	NO	YES	
	sidewalks, access drives, driveways, etc.			
23.	Delineate all drainage areas/basins to include offsite drainage and	NO	YES	
	bypass.			
24.	Detailed pre and post developed drainage area maps are required.	NO	YES	
	Drainage areas/basins must be clearly delineated (use color and hatch if necessary), and must show the CN values, acreage, study point, and TC			
	flow path for each drainage area/basin. Each drainage area/basin must			
	be labelled as onsite, offsite, or bypass as applicable.			



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25. Explain the chosen CN values used and provide detail calculations for	NO	YES	
the weighted CN values for each basin			
26. Provide a list or table of the rainfall values used.	NO	YES	
Use 3.36 inch as the value for the one year (1-			
year) precipitation depth when using the Annual Maximum time series,			
or use the Partial Duration time series			
http://hdsc.nws.noaa.gov/hdsc/pfds/pfds map cont.html?bkmrk=ga:			
NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES.			
27. The SCS method and other approved methodologies are required for	NO	YES	
detention analysis.			
28. A 10% downstream analysis is required. Provide basin drainage showing	NO	YES	
the drainage area/basin clearly delineated (use color and hatch if			
necessary), and must show the CN values, acreage, study point, and TC			
flow path for each drainage area/basin.			
Provide peak flow analysis results with and without detention to the			
labelled study point.			
29. The 10% downstream analysis must specifically prove and state that no	NO	YES	
structures (businesses, homes, culverts, streets, etc.) between the	NO	113	
analysis points will be adversely impacted by the increase in site runoff			
based on hydrograph timings to the 10% downstream study point.			
30. Provide fore-bay calculations (o. l"/acre of impervious area)	NO	YES	
21 Dec 11 MOV - 1/- CDV - 1/ CDV - 1/ 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	NO	VEC	
31. Provide WQV and/or CPV orifice sizing calculations for the 24-hour	NO	YES	
drawdown			
32. Round orifice size up or down to the next whole number (e.g. computed	NO	YES	
= 2.6", round to 3") for WQv and CPv orifices sizing			
33. Provide the detailed calculations for CPv (required and provided), RRv	NO	YES	
(required and provided), Orifice sizing, Green Infrastructure/Low Impact			
Development.			
34. Provide stage-storage report, pond report, hydrographs, and any other	NO	YES	
outputs from the model, showing input values/parameters used,			
assumption made, etc.			
assumption made, etc.			



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	The volume required by the hydrology shall reconcile with the grad on your drawings	ing				
35	. Provide 50% of net WQV as dead pool storage for Wet Extended		NO	YES		
	Detention pond.					
36	. Micro pool pond required (for less than 10 acre drainage areas).	NO	YES			
	Show 25-30% of net WQV as dead pool storage.					
37	Show that the 100-year storm, including offsite pass-through, is	NO	YES		 	
37	safely passed around or through the pond and through the emergency overflow weir. Otherwise, show how the offsite will be					
	managed.					
38	. Disturbed bypass areas greater than 10% of the drainage basin	NO	YES			
	require water quality treatment. (however, the County may require bypass less than 10% to address water quality)					
39	Extended dry detention may be used to fully meet CPV, Qp25 and	NO	YES			
	Qf (The 100-year, 24-hour storm event) requirements only					
40	Extended dry detention must be used in conjunction with other	NO	YES			
	onsite BMPs to meet the 80% TSS water quality requirements of the GSMM					
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41.	Include Outlet Control Structure (OCS) and pond cross section	NO	YES	
	details in BOTH the hydrology report and in the plan set.			
a)	The OCS detail must show the following:			
b)	 Show OCS plan view with dimensions Show OCS front view, with orifices diameter and weirs length (information shall be reconciled with hydrology report) Show bottom and top elevation of OCS Show trash rack (Trash rack must have 10 times the surface area of the orifice it protects. Flat is not allowed for public single-family residential developments) Show raised lid with ring and cover The Pond x-section details must show: The top of dam and bottom of pond elevations 			
	 The 100-yr volume and elevation 			
	 The RRv/WQv and Water Surface Elevation (WSE) 			
	 The forebay volume, its top of dam elevation, spillway and bottom elevation 			
	 Micropool bottom elevation, volume and WSE for 			
	volume provided			
	 The x-section must show both ends/edges of the ponds 			
	 Show a safety bench if the pond is deeper than 4'or 			
	required slopes of greater than 3:1.			
	Show and dimension the aquatic bench			
	 standard 10' embankment berm width and minimum slopes of 3:1 per GSMM 			
42.	If CPV is waived, then the 2 through 25 year attenuation is	NO	YES	
	required as well as safely passing the 100 year storm	_		
	71 0 7			
43.	Provide a wetland seeding schedule for extended detention wet	NO	YES	
	pond BOTH the hydrology report and in the plan set.			
44.	Add note to plan set/on grading sheet: "No woody vegetation is	NO	YES	
	allowed within 15' of the downstream toe of earthen			
	embankment". (i.e. stumps, etc)			
45.	Provide construction detail for emergency spillway in	NO	YES	
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46. For earthen pond embankments, use impervious cut-off trench with anti-seep collar to restrict piping of soils through embankment	NO	YES	
47. Add note to plan/on grading sheet: "The pond's maintenance under drain is intended to drain the pond for infrequent maintenance and inspection purposes. The gate valve must be closed immediately after construction of the pond. After construction is completed, it can only be opened upon authorization by the DeKalb County Land Development Department."	NO □	YES	
48. Provide pond under drain (drain pipe with 3" mm. gate valve located in OCS). Also, provide manufacturer and maintenance spec	NO	YES	
49. Show the forebay volume calculation (0.1" per impervious acre). Indicate and show volume provided	NO	YES	
50. If WQV and CPV requirements are met, the only additional requirements are flood control for the 25-year event and safe passage of the 100-year event.	NO	YES	
51. Show/indicate required micropool (25-30% of net WQV); indicate volume provided	NO	YES	
52. For redevelopment projects other than stormwater hotspots, if less than 40 % of the site is being disturbed only that portion of the property is required to meet the stormwater compliance regulations. The hydrology analysis will model the whole site, however only the area disturbed will be treated as wooded for the pre-developed conditions.	NO □	YES	