

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

Cedric Hudson Interim 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 #:

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.

Signature___

 Address all applicable items on the Land Development - Site Plan Review checklist Development name on the cover of the report 	NO	YES	
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	NO	YES	
report			
5. Date on the cover of the report vicinity map in the report	NO	YES	
6. Vicinity map in the report	NO	YES	



178 Sams Street, Decatur, GA 30030

Lorraine Cochran-Johnson Chief Executive Officer

8.			-	-	ond/storm	water di	ainage	NO	YES	
	ownership	in the hy	drology/st	ormwater :	mgt report					
9.	Provide a r	ecorded	Stormwate	er Detentio	on Facility I	Inspectio	n and	NO	YES	
	Maintenar	ice 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.	A stream b	uffer vari	ance is req	uired for e	encroachme	nt into t	he stream	NO	YES	
	buffers									
11.	Contact th	e Army C	orps of En	gineers (A	CoE) for per	rmit		NO	YES	
	determina	tion/appr	oval. ACoI	E approval	is required	prior to	stormwater			
	plan appro	val if it ap	oplies to th	ne proposed	d scope of v	vork.				
12.	Provide flo	,	•		O		nce and in	NO	YES	
	accordance	e with FEI	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 docu	ments to			
FEMA v	w/copy sent	along wit	th plans.							
13. Does your submittal/hydrology report address the following: runoff						NO	YES			
				-	tion volume					
protection, extreme flood protection, and ten-percent downstream										
	analysis?									
14.	Provide RF						-	e NO	YES	
detailed technical justification based on soil characteristics and or site topography related to best practices for runoff reduction volume										
			_							
15.	Provide ex	ecutive su	ımmary of	the report	's findings t	to includ	e a table	NO	YES	
	similar to:									
Basir	Drainage Area	Return Frequency	Precipitation Value for 24	Pre- development	Post- development	Ponding Elevation	Storage (cubic feet)			
		Storm (yrs)	hour Event (inches)	Flow (cfs)	Flow (cfs)	(ft MSL)				
		2								
		5 10								
		25								
		50 100								
10% I	o.s.	100				<u></u>				
16	DeKalb Co	unty regu	ires nost	levelonme	nt releace fl	ow rates	not to	NO	YES	
10.	exceed pre				iit i Cicase II	ow rates	1101 10			
	1	r								



178 Sams Street, Decatur, GA 30030

Lorraine Cochran-Johnson Chief Executive Officer

45 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NO	VEC	
 Include a narrative paragraph/summary in the report that includes a description of existing site, soils, slopes, vegetative cover, and proposed 	NO □	YES □	
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	
 Provide a breakdown of proposed impervious surface by roofs, roads, sidewalks, access drives, driveways, etc. 	NO	YES	
•			
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.			



178 Sams Street, Decatur, GA 30030

Lorraine Cochran-Johnson Chief Executive Officer

25. Explain the chosen CN values used and provide d	etail 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.c	ont html?hkmrk_ga			
NOAA ATLAS 14 POINT PRECIPITATION FREQ				
,		NO	YES	
27. The SCS method and other approved methodolog detention analysis.	gies are required for	NO _		
determion unarysis.				
28. A 10% downstream analysis is required. Provide b		NO	YES	
the drainage area/basin clearly delineated (use co				
necessary), and must show the CN values, acreage flow path for each drainage area/basin.	e, study point, and TC			
Provide peak flow analysis results with and witho labelled study point.	ut detention to the			
29. The 10% downstream analysis must specifically pr		NO	YES	
structures (businesses, homes, culverts, streets, e analysis points will be adversely impacted by the				
based on hydrograph timings to the 10% downstr				
30. Provide fore-bay calculations (o. l"/acre of imperv		NO	YES	
30. Frovide fore-bay calculations (0.1 /acre of imperv	ious area)			
31. Provide WQV and/or CPV orifice sizing calculation	ons for the 24-hour	NO	YES	
drawdown				
32. Round orifice size up or down to the next whole i	~ -	NO	YES	
= 2.6", round to 3") for WQv and CPv orifices sizi	ng			
33. Provide the detailed calculations for CPv (require	d and provided), RRv	NO	YES	
(required and provided), Orifice sizing, Green Inf	rastructure/Low Impact			
Development.				
34. Provide stage-storage report, pond report, hydrog	,	NO	YES	
outputs from the model, showing input values/pa	rameters used,			
assumption made, etc.				
L				



178 Sams Street, Decatur, GA 30030

Lorraine Cochran-Johnson Chief Executive Officer

The volume required by the hydrology shall reconcile with the gradin on your drawings	ng				
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			
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					



178 Sams Street, Decatur, GA 30030

Lorraine Cochran-Johnson Chief Executive Officer

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			
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	
		l		



178 Sams Street, Decatur, GA 30030

Lorraine Cochran-Johnson Chief Executive Officer

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 🗆	