MODEL STORMWATER REPORT CHECK LIST

Section 1. Report Format

1.1	Does the Hydrologic & Hydraulic Report contain the following information:						
	<u>Provided</u>	<u>Missing</u>					
			Nam	e of the Development			
			Nam	e of the Developer			
			Loca	tion Map of the Site referencing the nearest major road			
			Storm	nwater Impact Certification			
			Seal	of the Professional having prepared the Report			
1.2	Does the Hydrologic & Hydraulic Report contain the following sections:						
	<u>Provided</u>	Missing	<u>N/A</u>				
				Existing Conditions Hydrologic Analysis			
				Post Development Hydrologic Analysis			
				Stormwater Management System Design			
				Downstream Analysis			
				Erosion & Sedimentation Control Plan			
				Planting Plan (if applicable)			
				Operations & Maintenance Plan			
Secti	ion 2. Ex	xisting Condi	tions H	ydrologic Analysis			
2.1		on should provid prior to develop		der with a comprehensive evaluation of the site the project.			
2.2	Narratives – A narrative and supporting calculations of the pre-development conditions of the site as related to stormwater management should be provided to determine the current characteristics of the site.						
	Written description of the existing conditions found on the site						
	_	Name of the receiving waters from which runoff drains to after leaving the site					
	Analysis of runoff provided by off-site areas upstream of the project site						
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		Methodologies, assumptions, site parameters and supporting design calculations used in the analyzing the existing conditions site hydrology		
2.3		ng Conditions Map – A map documenting the following elements should be ed with the following information if applicable.		
		Topography (2-ft. or less contour interval) of existing site conditions		
		Perennial / intermittent streams, wetlands, lakes and other surface water features		
		Drainage basin delineations showing the location of each drainage sub-basin		
		Drainage basin delineations for each contributing drainage basin upstream of the project site on an appropriate map (USGS Quadrangle, etc.)		
		Existing stormwater conveyances and structural control facilities		
		Soil types including hydrologic soil groups		
		Direction of flow and discharge points from the site including sheet flow areas		
2.4	Existing Conditions Tables – Tables documenting the following information should be provided if applicable.			
		A table listing the acreage, soil types and land cover characteristics for each sub-basin		
		A table listing the peak runoff rates and total runoff volumes from each sub-basin		
		A table listing the peak runoff rates and total runoff volumes for each drainage area upstream of the project site		
Section	on 3.	Post-Development Hydrologic Analysis		
3.1	The post-development hydrologic analysis should provide the reader with a comprehensive evaluation of the anticipated site conditions following development of the project. The designer should provide the following information with this element of the report:			
3.2	of the	ives – A narrative and supporting calculations of the post-development conditions site as related to stormwater management should be provided to determine the stormwater characteristics of the site.		
		Written description of the existing conditions found on the site		
		Stormwater calculations for water quality, channel protection and post construction detention for each sub-basin affected by the project		
		Documentation and calculations for any applicable site design credits that are being utilized		

		Methodologies, assumptions, site parameters and supporting design calculations used in the analyzing the post development conditions site hydrology			
3.3		Development Conditions Map – A map documenting the following elements should ovided with the following information if applicable.			
		Topography (2-ft or less contour interval) of proposed site conditions			
		Perennial / intermittent streams, wetlands, lakes and other surface water features			
		Drainage basin delineations showing the location of each drainage sub-basin			
		Proposed stormwater conveyances and structural control facilities			
		Direction of flow and discharge points from the site including sheet flow areas			
		Location and boundaries of proposed natural feature protection areas			
3.4		Development Conditions Tables – Tables documenting the following information d be provided if applicable.			
		A table listing the acreage, soil types, impervious surface area and land cover characteristics for each sub-basin			
		A table listing the peak runoff rates and total runoff volumes from each sub-basin			
		A table listing the peak runoff rates and total runoff volumes for each drainage area upstream of the project site			
		A table listing the peak discharge rates, total runoff volumes and peak elevations for all detention ponds studied.			
Sect	ion 4.	Stormwater Management System			
4.1	The stormwater management system section should provide the reader with a comprehensive description of the proposed stormwater management system component on site. The designer should provide the following information with this element of the report:				
4.2	mana; / table outlin	Narratives – A narrative and supporting calculations describing the on-site stormwater management controls to be utilized. This narrative should include appropriate narratives / tables demonstrating compliance with the various stormwater management requirements outlined in the post-development article of the stormwater ordinance and local design manual.			
		Narrative describing that appropriate and effective structural stormwater controls have been selected			

	<u></u>	conveyance elements including stormwater drains, pipes culverts catch basins, channels, swales and areas of overland flow		
4.3	Stormwater Management System Map(s) – A map(s) illustrating the location, type and specifications of all stormwater management components to provide stormwater management for the proposed site.			
		Location of all non-structural stormwater controls		
		Location of all existing stormwater controls to remain after development		
		Location of all proposed stormwater controls		
		Location of all proposed impoundment type controls (i.e. detention ponds, stormwater ponds, stormwater wetlands, etc.)		
		Location of all conveyance structures		
		All impoundment type controls should be labeled with the following information: maximum water surface elevation, depth and storage volumes for both the design storm and maximum water surface if the design storm event is exceeded (i.e. top of dam)		
		All inlets to conveyance structures should be labeled with the following information: maximum design water surface and maximum potential water surface		
		All pipes should be labeled with length, material and slope		
		All pipes should be profiled and labeled with length, material, slope and hydraulic grade line		
Section	on 5. l	Downstream Analysis		
5.1	The downstream analysis should provide the reader with a comprehensive picture of the downstream areas and their capacity to accommodate stormwater runoff from the proposed development.			
5.2	Narratives A narrative and supporting calculations for a downstream peak flow analysis using the ten-percent rule necessary to show safe passage of the post-development design flows downstream. This narrative should include appropriate descriptions / tables for points of interest such as culverts and channel constrictions downstream of the project where increases in stormwater runoff rates could be of concern.			
5.3	A map(s) illustrating the location, type and specifications of all stormwater management components to provide stormwater management for the proposed site.			
		Drainage basin delineations showing the point at which the contributing area of the project represents 10% of the total drainage basin area		

		Identify culverts, channels and other structural stormwater controls that the stormwater runoff must pass through prior to the 10% point identified previously
Secti	on 6.	Erosion & Sedimentation Control Plan
6.1	The erosion and sedimentation control plan should be included in the report demonstrating the plan to effectively mitigate stormwater impacts during construction. The following elements should be included in the section of the report.	
		All elements specified in the Georgia Erosion and Sediment Control Act and local ordinances and regulations
		Sequence / phasing of construction and temporary stabilization measures
		Temporary structures that will be converted into permanent stormwater controls
Secti	on 7.	Planting Plan
7.1	If necessary, a planting plan should be included for all stormwater controls that utilize vegetation as part of the functional design.	

Section 8. Operations & Maintenance Plan

8.1 A narrative of what maintenance tasks will be required for the stormwater controls specified for the site as well as the responsible parties. Additionally, the report will need to identify access and safety issues for the site.