CodeNEXT Policy Table for Drainage and Environmental Proposals

Subtopic	Code Citation	Proposed Code Changes	Rationale				Key Criteria Changes
				Policy Considerations for Proposed Changes			
				Advantages	Challenges	Policy Alternatives	
Article 23-3D: Gene	ral Planning Requi	rements, Water Quality Division					
Green Stormwater Infrastructure and Beneficial Use of Stormwater	23-3D-6 Water Quality Control and Beneficial Use Standards	 Require the use of green stormwater infrastructure (GSI) on commercial and multifamily development to address water quality, water conservation, and ecological functions. Allow use of conventional controls on commercial sites with more than 80% impervious cover if irrigation demands are met using rainwater harvesting. Offer incentives for rainwater harvesting for projects at all impervious cover levels by crediting stored rainwater up to 25% of water quality volume. Exceptions offered for residential subdivisions, regional ponds, difficult site conditions, and "hot-spot" land uses with highly contaminated runoff (e.g., auto repair facilities). 		 Green controls have been used and tested across the US and allowed (but not required) in Austin for water quality compliance since 2007. Where infiltration practices are adopted, improves hydrology (increased creek baseflow, reduced runoff). Conserves water, reduces potable irrigation. Rainwater harvesting credit addresses traditional conflict between water quality and conservation goals. Provides green function / ecosystem services (resilience in heat and drought, natural habitat, ambient cooling). Provides human and cultural benefits (health, wellbeing, green oasis, lowered stress). Smaller scale enables simple, familiar routine maintenance (landscaping, irrigation operation, etc.). Typically can double up GSI location with other site elements (e.g., landscaping). 	compared to more traditional methods (e.g., complex plantings, pumps, etc.). Require more frequent routine, light maintenance (trash removal, sediment buildup, etc.). Small scale increases number of controls and may require additional review and inspection. Some GSI types have larger footprint than grey equivalents (e.g., rain gardens vs. sand filters). Proposal allows for reduced average annual rainfall treatment for systems that use a 25% rainwater harvesting conservation component. Lack of local data on long-term maintenance (e.g., how to re-construct green controls in the landscape when water quality volume needs to be re-established).		 Refine design criteria for some options. Clarify eligibility for payment-in-lieu of onsite controls.
Water Quality Protection	23-3D Water Quality		The major provisions of this Article were revised entirely in the 2013 Watershed Protection Ordinance.	N/A	N/A	N/A	N/A

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Article 23-10E: Drain	nage Infrastructure	•					
Flood Mitigation for Redevelopment	, 	SIGNIFICANT CODE REVISION Require all developmentboth new and redevelopmentto provide flood mitigaton through on- or off-site controls, conveyance improvements, and/or payment-in-lieu. The level of mitigation required is based on the reduction of post-development peak flow rates of discharge to match those for undeveloped conditions (zero impervious cover). Only applies to the area developed / limits of construction. Existing impervious cover associated with City of Austin roadway redevelopment projects will not be considered in determining compliance.	stormwater peak flows not exceed those that exist from the site at the time of application. This helps minimize adverse flood impacts downstream that the new development would contribute to. This current code does not account for impervious cover on a site that existed before 1974 that impacts existing flood hazards. By requiring all sites to either match the peak runoff rates generated by undeveloped conditions or provide a payment-in-lieu of detention, this proposal asks that redevelopment account for its proportionate share of downstream flooding by either constructing on-site controls, downstream conveyance improvements, or providing funding for the City to address other citywide flood hazards. • Recommended by the Flood Mitigation Task Force. Implements Action CFS A42 and CFS A45 in Imagine	drainage conditions at and downstream of each development. Redevelopment with existing, compliant detention and conveyance are not affected. Exception for existing impervious cover associated with public roadway redevelopment enables the maximization of funds for mobility purposes while ensuring that roadway projects do not cause any additional adverse flooding impact.	 May add cost to many redevelopment projects. Some types of detention facilities require additional land area. May discourage redevelopment, which would prevent other benefits of such redevelopment from being realized. Incremental benefits may take a long time to show results. Exception for existing impervious cover associated with public roadway redevelopment does not fully capture the opportunity to reduce flood risks. 	 Apply only to larger sites and exempt smaller sites. Require the stormwater detention, but at a lower level of control (e.g., 10-year control rather than full 100-year control). Exempt areas that do not have known flooding or drainage problems. Maintain status quo and continue to address existing flood hazards primarily via public capital projects. Allow payment-in-lieu as an option for existing impervious cover associated with public roadway redevelopment at discretion of WPD. 	new proposal for redevelopment sites.
Regional Stormwater Management Program (RSMP)	r 23-10E-3 Standards for Approval	NEW TO CODE Existing Program Add a code reference to the RSMP, which is currently outlined in the Drainage Criteria Manual (DCM).	no adverse impact and conveyance standards represents a significant improvement to existing drainage infrastructure. Providing a reference to this program in the code will codify its existence and promote its use.	Ease of use; clarity.	None.	N/A	• Revise to describe process.

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