

CITY OF KIRKLAND
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**DEPARTMENT OF PUBLIC WORKS
PRE-APPROVED PLANS POLICY**

Policy D-2: BASIC AND SIMPLIFIED PROJECT DRAINAGE REVIEW REQUIREMENTS

Kirkland Municipal Code (KMC) Chapter 15.52 requires a storm drainage design for all projects that trigger a drainage review per KMC 15.52.050. All projects must collect and convey stormwater runoff in a manner that does not create a drainage problem (or aggravate an existing problem) on adjacent properties. Kirkland has adopted the 2016 King County Surface Water Design Manual (KCSWDM) and the Kirkland Addendum to the 2016 KCSWDM (Pre-Approved Plans Policy D-10) for development in Kirkland, effective January 1, 2017.

Below are the levels of drainage review used in Kirkland (based on project and site characteristics):

- Basic drainage review
- Simplified drainage review
- Targeted drainage review
- Full drainage review

This policy includes the drainage review criteria and applicable submittal requirements for projects requiring Basic and Simplified drainage review. See Pre-Approved Plans Policy D-3 for details on Targeted and Full drainage reviews.

A. Basic Drainage Review

A project resulting in between 500ft² to 1,999ft² of *new impervious surface*¹ plus *replaced impervious surface*² areas.

B. Simplified Drainage Review

A single family residential project resulting in 2,000 sf or more of new plus replaced impervious surface, OR 7,000ft² or more of land disturbing activity (activity resulting in a change in the existing soil cover), **AND** ALL of the following:

1. Results in less than 5,000 sf of new plus replaced pollution generating impervious surface (PGIS), and
2. Results in less than ¾ acre of pollution generating pervious surfaces (PGPS), and
3. a. Projects predominantly on till soils: results in less than 7,947 sf of target impervious surface AND proposed pervious area is equal to or less than 14,941 – 1.88 x (total target impervious surface, OR
b. Projects predominantly on outwash soils: results in less than 6,872 sf of target impervious surfaces AND proposed pervious area is equal to or less than 20,343 – 2.96 x (total target impervious surfaces), and
4. Does **not** contain (or is not adjacent to) a flood, erosion, steep slope, or landslide hazard areas, and
5. Does **not** contain (or is not adjacent to) surface water critical areas such as wetlands, streams, and lakes, and
6. Does **not** propose to construct or modify a drainage pipe/ditch that is 12in or more in size/depth, or receives surface and stormwater runoff from a drainage pipe/ditch that is 12in or more in size/depth.

NOTE: If the project does not qualify for either basic or simplified drainage review, please see Pre-Approved Plans Policy D-3 for details on Targeted and Full drainage reviews.

¹**New impervious surface** means the addition of a hard or compacted surface like roofs, pavement, gravel, or dirt; or the addition of a more compacted surface, like paving over pre-existing dirt or gravel.

²**Replaced impervious surface** means any existing impervious surface on the project site that is proposed to be removed (removal of building/concrete/asphalt down to foundation) and re-established as impervious surface.

³**New pervious surface** means the conversion of a native vegetated surface or other surface to a non-native pervious surface (i.e., conversion of forest to lawn or bare soil), or any alteration of existing non-native pervious surface that significantly increases surface and storm water runoff.

DRAINAGE REVIEW SUBMITTALS		
Permit or Project Type	Drainage Review Level	Submittals Required for Drainage Review
Single Family Residential	If a part of a subdivision	<ul style="list-style-type: none"> • Drainage Plan for individual site/lot (as shown on approved LSM) • Soil Report (if required) • ESC Plan
	Basic	<ul style="list-style-type: none"> • Drainage Plan • Soil Report (if required) • ESC Plan
	Simplified	<ul style="list-style-type: none"> • Drainage Plan • Drainage TIR with supporting documentation • Soil Report (if required) • Small Site CSWPP Plan
Commercial and Multi-Family	Basic	<ul style="list-style-type: none"> • Drainage Plan • Soil Report (if required) • ESC Plan
<p>Notes:</p> <ol style="list-style-type: none"> 1. Drainage Plans must be prepared by a professional engineer or architect. 2. Drainage Technical Information Report (TIR) for details see the 2016 KCSWDM, section 2.3.1.1. 3. Soil Report is required for infiltration facilities and infiltrating flow control BMPs. For additional information on the soil report requirements, see Chapter 5.2 (2016 KCSWDM) for infiltration facilities, and Pre-Approved Plans Policy D-8 for flow control BMPs. 4. Erosion and Sediment Control (ESC) Plan includes erosion control measures to prevent the transport of sediment from the site. For examples of erosion control measures, see Appendix C.3 (2016 KCSWDM). 5. Construction Stormwater Pollution Prevention (CSWPP) Plan includes both erosion control measures and stormwater pollution prevention and spill measures. For more information, see Pre-Approved Plans Policy D-12. 6. Small Site CSWPP Plan is a modified version of the CSWPP Plan for projects subject to Simplified Drainage Review. See Pre-Approved Plans Policy D-12. 7. For terminology clarifications, see definitions in the 2016 KCSWDM. 		