

## CITY OF KIRKLAND

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### DEPARTMENT OF PUBLIC WORKS PRE-APPROVED PLANS POLICY

#### Policy D-2: SMALL PROJECT DRAINAGE REVIEW REQUIREMENTS

Kirkland Municipal Code Chapter 15.52 requires storm drainage design for all land-use, land surface modification and building permits. Kirkland has adopted the 2009 King County Surface Water Design Manual (KCSWDM) and the Kirkland Addendum to the 2009 KCSWDM (Addendum) for development in Kirkland, effective January 1, 2010. The type of drainage review required for a project is based on project and site characteristics. Below are the levels of drainage review used in Kirkland:

- Small Project drainage review (Types I & II)
- Targeted Project drainage review
- Full project drainage review

This policy includes the drainage review criteria and applicable submittal requirements for projects requiring Small Project Drainage Reviews. See Policy D-3 for details on Targeted and Full Project Drainage Reviews.

#### A. Small Project Drainage Review Type I

A project resulting in between 500ft<sup>2</sup> to 1,999ft<sup>2</sup> of *new impervious surface*<sup>1</sup> area.

#### B. Small Project Drainage Review Type II

1. Projects resulting in:
  - a) 2,000ft<sup>2</sup> or more of new, or combination of new plus replaced impervious surface, OR
  - b) 7,000ft<sup>2</sup> or more of land disturbing activity (activity resulting in a change in the existing soil cover);
2. Projects resulting in:
  - a) Less than 5,000ft<sup>2</sup> of new impervious surface, and
  - b) Less than 10,000ft<sup>2</sup> of new impervious plus impervious surface added since 1/8/01 (this is the effective date of the Endangered Species Act "take prohibition" issued by the federal government to protect Puget Sound Chinook Salmon), and
  - c) Less than 35,000ft<sup>2</sup> of *new pervious surface*<sup>2</sup>.
3. Projects **not** containing or adjacent to a flood, erosion, steep slope, or landslide hazard areas,
4. Projects **not** containing or adjacent to a sensitive drainage area,
5. Projects do **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 12inches or more in size/depth.

<sup>1</sup>**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.

<sup>2</sup>**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.

C.

SMALL PROJECT DRAINAGE REVIEW SUBMITTALS			
Permit or Project Type	Drainage Review Level		Required for Drainage Review
<b>Single Family Residential</b>	Small Project Type I	If part of a subdivision	<ul style="list-style-type: none"> <li>• ESC for individual site/lot</li> </ul>
		If <b>not</b> part of an improved subdivision	<ul style="list-style-type: none"> <li>• Drainage Plan – storm LID may be required</li> <li>• ESC Plan</li> </ul>
	Small Project Type II	If part of a subdivision	<ul style="list-style-type: none"> <li>• ESC for individual site/lot</li> </ul>
		If <b>not</b> part of an improved subdivision	<ul style="list-style-type: none"> <li>• Drainage Plan with flow control BMP site plan and design and maintenance details</li> <li>• Drainage Report with supporting documentation</li> <li>• Evaluation of LID Feasibility and Applicability</li> <li>• ESC Plan</li> </ul>
<b>Commercial</b>	Small Project Type I		<ul style="list-style-type: none"> <li>• Drainage Plan – storm LID may be required</li> <li>• ESC Plan</li> </ul>
	Small Project Type II		<ul style="list-style-type: none"> <li>• Drainage Plan with flow control BMP site plan and design and maintenance details</li> <li>• Drainage Report with supporting documentation</li> <li>• Evaluation of LID Feasibility and Applicability</li> <li>• ESC Plan</li> </ul>
<b>Notes:</b>			
<ol style="list-style-type: none"> <li>1. <b>Drainage Plans</b> must be prepared by a professional engineer or architect. Soil reports are required for sites with complicating factors and sites proposing to use infiltration.</li> <li>2. <b>Low Impact Development (LID)</b> refers to stormwater techniques designed to lessen the amount of impervious surface and allow runoff to infiltrate on site. See Stormwater LID Worksheet.</li> <li>3. <b>Drainage Report</b> guidelines can be found in the 2009 KCSWDM, section 2.3.1.1. Also, see COK Drainage Report Templates.</li> <li>4. <b>Erosion and Sediment Control (ESC) Plan</b> guidelines are listed in Policy D-12.</li> <li>5. <b>Stormwater Pollution Prevention Plan (SWPPP)</b> guidelines are listed in Policy D-12.</li> <li>6. For terminology clarifications, see <b>definitions</b> on page 1-2 in the 2009 KCSWDM.</li> <li>7. <b>Runoff from existing impervious</b> must be evaluated to determine impacts to the existing flow path.</li> </ol>			