

Infill Development Drainage Plan Example

This example applies to re-development on existing lots, residential developments located in already developed areas and commercial developments.

This information is intended as a general guide only. For questions, please contact the City of Whitehorse Engineering Services Department at 668-8305



Drainage plan must show:

- Lot information including Lot Number, CLSR Plan number and Property Lines.
- Footprints of all buildings on the property.
- Existing elevations on grade at corners of lot, grade breaks, along road shoulders, paths, lanes and existing buildings located near property line.
- Spot elevations and drainage arrows indicating existing drainage pattern of adjacent properties.
- Proposed and/or existing elevations for main floor of all buildings on site.
- Proposed elevations on grade at lot corners and along shared property lines (if altered from existing)
- Proposed elevations on grade at building corners, edge of surface treatments, along swale inverts and at grade breaks.
- Drainage arrows indicating direction of drainage complete with calculated % grade.
- Surface treatments throughout property (ie: paving, gravel, grass)
- Drainage features such as swales, ditches and retaining walls.
- Location, size and material of proposed underground service connections (if applicable)

Design requirements:

- Minimum 150mm drop in elevation from grade at building to grade at property line.
- Minimum 100mm drop in elevation from main floor elevation to grade outside of building (with exception to area fronting garage)
- Minimum grades of 1.5% along swale inverts
- Preferred maximum driveway grade of 6%
- Elevations indicated on the plan are to be top of native soil or top of hard surfacing. Decorative rock is to be installed on top of elevations indicated.

