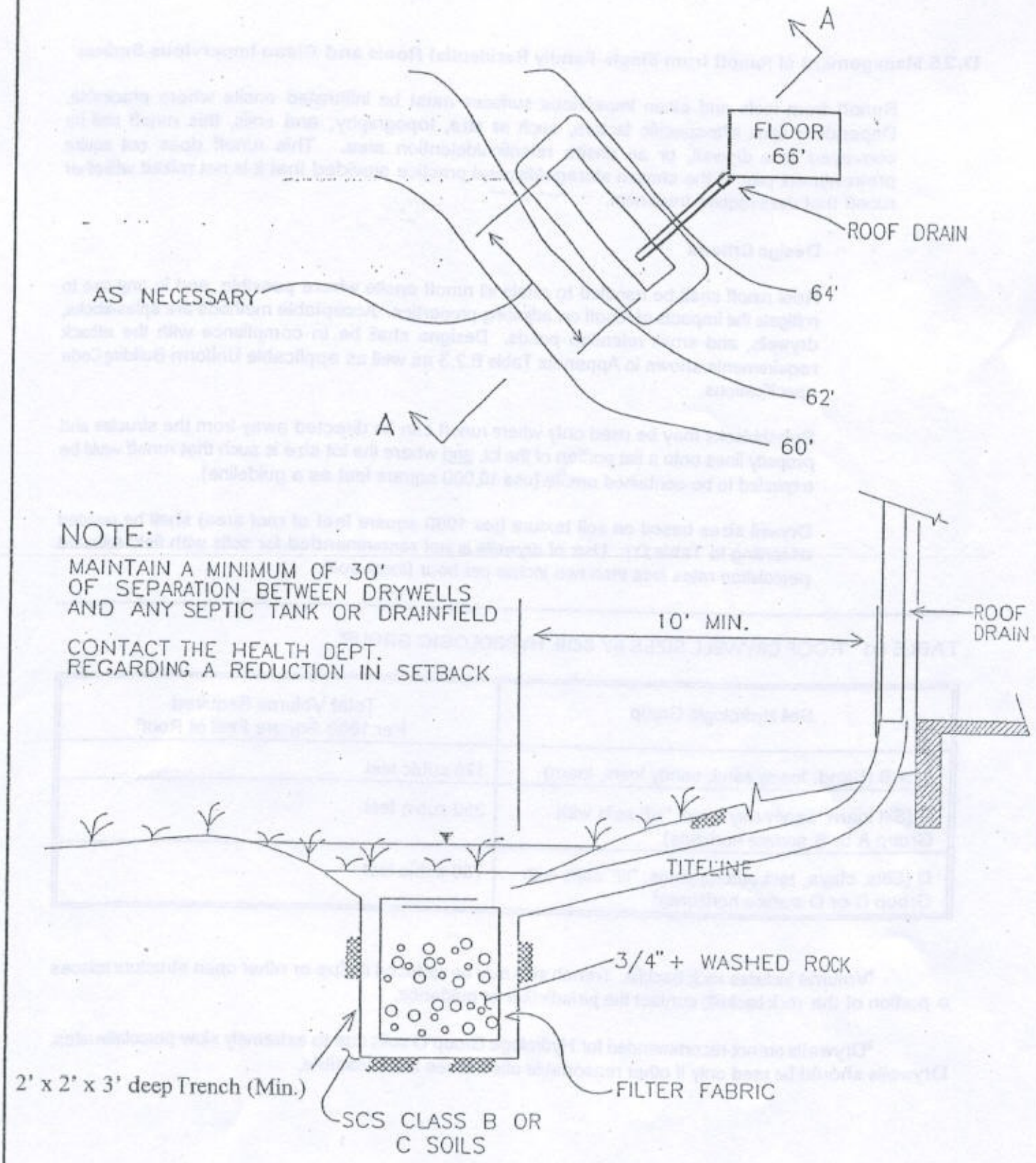

SECTION AA

THIS DETAIL PROVIDED TO ILLUSTRATE MINIMUM CODE REQUIREMENTS ONLY. City of McCleary

DRYWELL EXAMPLE

D.25 Management of Runoff from Single-Family Residential Roofs and Clean Impervious Surfaces

Runoff from roofs and clean impervious surfaces must be infiltrated onsite where practicable. Depending upon site-specific factors, such as size, topography, and soils, this runoff shall be conveyed to a drywell, or an onsite retention/detention area. This runoff does not require pretreatment prior to the chosen storage/disposal practice provided that it is not mixed with other runoff that does require treatment.

Design Criteria

Roof runoff shall be handled to retain all runoff onsite where possible, and in any case to mitigate the impacts of runoff on adjoining properties. Acceptable methods are splashblocks, drywells, and small retention ponds. Designs shall be in compliance with the setback requirements shown in Appendix Table B.2.3 as well as applicable Uniform Building Code specifications.

Splashblocks may be used only where runoff can be directed away from the structure and property lines onto a flat portion of the lot, and where the lot size is such that runoff would be expected to be contained onsite (use 10,000 square feet as a guideline).

Drywell sizes based on soil texture (per 1000 square feet of roof area) shall be provided according to Table D1. Use of drywells is not recommended for soils with field-saturated percolation rates less than two inches per hour (loam soil).

TABLE D1 ROOF DRYWELL SIZES BY SOIL HYDROLOGIC GROUP

Soil Hydrologic Group	Total Volume Required Per 1000 Square Feet of Roof[1]
A or B (Sand, loamy sand, sandy loam, loam)	125 cubic feet
C (Silt loam, sandy clay loam, "till" soils with Group A or B surface horizons)	250 cubic feet
D (Silts, clays, rock outcroppings, "till" soils with Group C or D surface horizons)[2]	750 cubic feet

[1]Volume includes rock backfill. Trench size may be reduced if pipe or other open structure replaces a portion of the rock backfill; contact the jurisdiction for guidance.

[2]Drywells are not recommended for Hydrologic Group D soils due to extremely slow percolation rates. Drywells should be used only if other reasonable alternatives are infeasible.