

BIORETENTION SITING, DESIGN & CONSTRUCTION

## INFEASIBILITY CRITERIA: Infiltration Setbacks

Feature	Setback
Native Growth Protection Easement	≥ 20 feet
Top of slopes >20% and over 10 feet of relief	≥ 50 feet
Underground storage tanks	10-100 feet
Wellheads, basements, foundations, utilities, slopes, contaminated areas, and property lines	Consult local jurisdiction guidelines

Setbacks (source: SWMMWW Infeasibility Criteria)




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## SITING CONSIDERATIONS

- Understand fate of infiltrated water
  - Intent is to infiltrate to native underlying soil
  - Arterial ROW with dense underground infrastructure (preferential pathway → utility trenches)
  - Potential for excessive shallow interflow emerging at slopes, development cuts, or in basements
- Use engineering controls
  - Ex. trench water stops to prevent re-infiltration to pipes
  - Ex. liners to protect adjacent infrastructure

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## SITING CONSIDERATIONS



2012 LID Technical Guidance Manual for  
Puget Sound

- Native soil and vegetation preservation
- Site Slopes
  - Cross & Longitudinal Slopes
  - Positive Drainage from drainage area to BR to overflow
- Setbacks (e.g., utilities & other infrastructure, wetland and streams)
- Public acceptance/participation (retrofits)
- Transportation/pedestrian safety

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