









Primary design considerations for plant selection

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A DEPENDING IN

- Soil moisture conditions.
 Sun exposure.
 - Above and below ground infrastructure.
 - Site distances and setbacks along roadways.
 - Pedestrian use.
 - Adjacent plant communities and potential invasive species control.
 - Visual buffering.
 - Aesthetics. bioretention plants

Bioretention areas rely on a plant-soil system to process pollutants and reduce stormwater volume

 Agricultural literature documents well the role of plants for building soil structure (Buckman and Brady 1969, Angers and Caron 1998).



- City of Portland OR documents increasing infiltration rates in 12-year old commercial parking bioretention areas. 1995~8"/hr, 2005~13"/hr (BES 2006).
- Lucas observes increased phosphate removal in vegetated vs non-vegetated bioretention... removal more than plant uptake.

bioretention plants





