SITE ADAPTIVE PLANNING and DESIGN

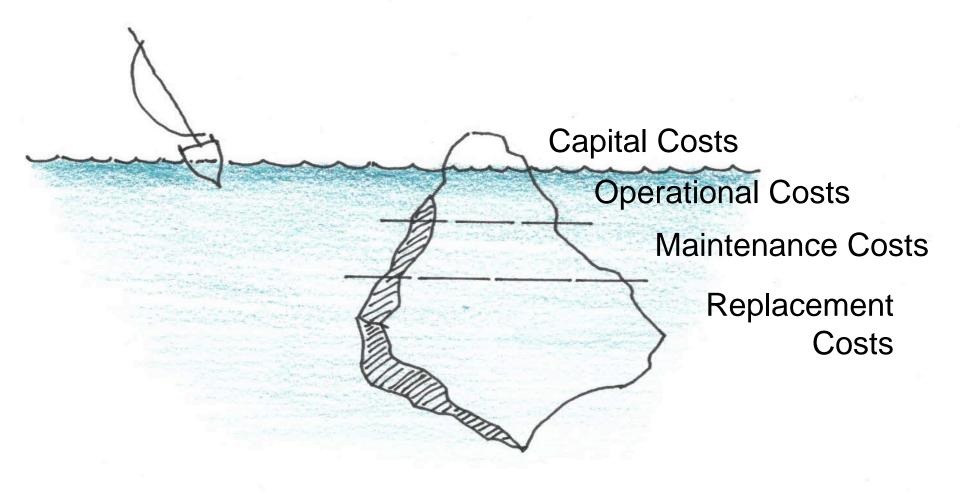
Colwood, B.C. William M Marsh November 3, 2016

The INGENUITY GAP

Terrain Adaptive Planning

- Carrying Capacity
- Natural Services
- Existing Infrastructure
- Incrementalism

The Cost of Infrastructure

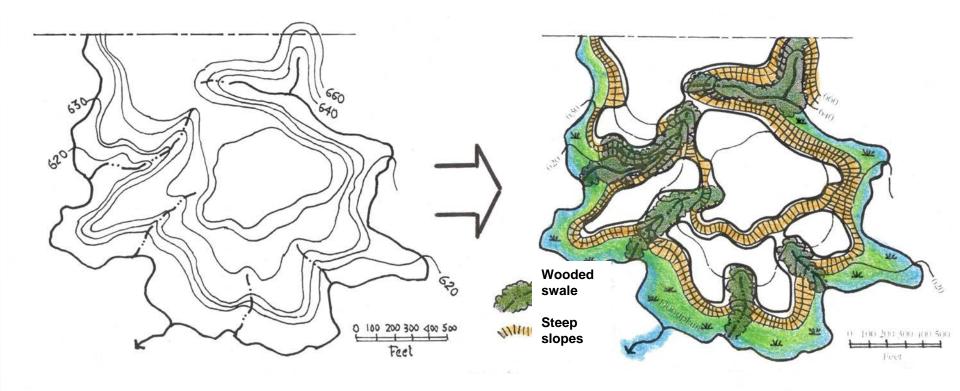


Driving Up Infrastructure Costs

- Steep slopes
- Cut and fill
- Pipes and pumping
- Flood control

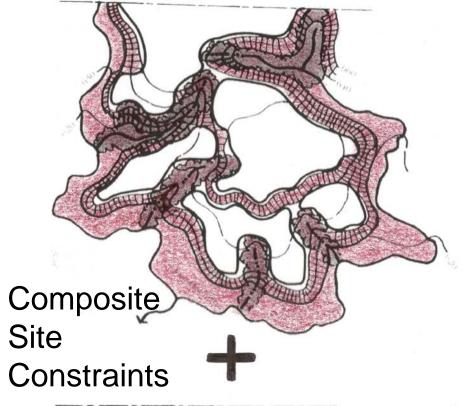
An Example

- Conventional Development Planning
- Site Adaptive
 Development Planning

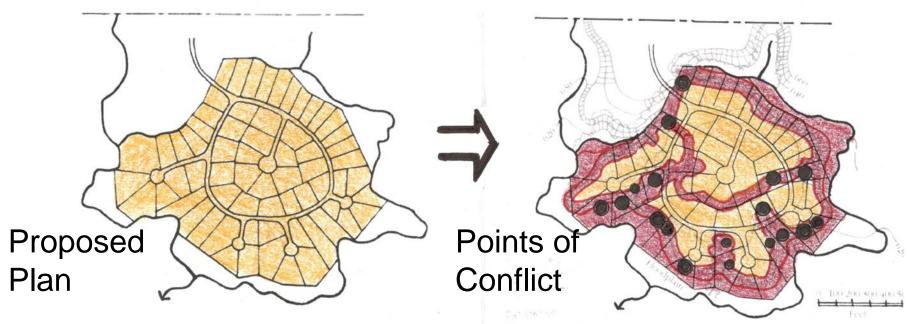


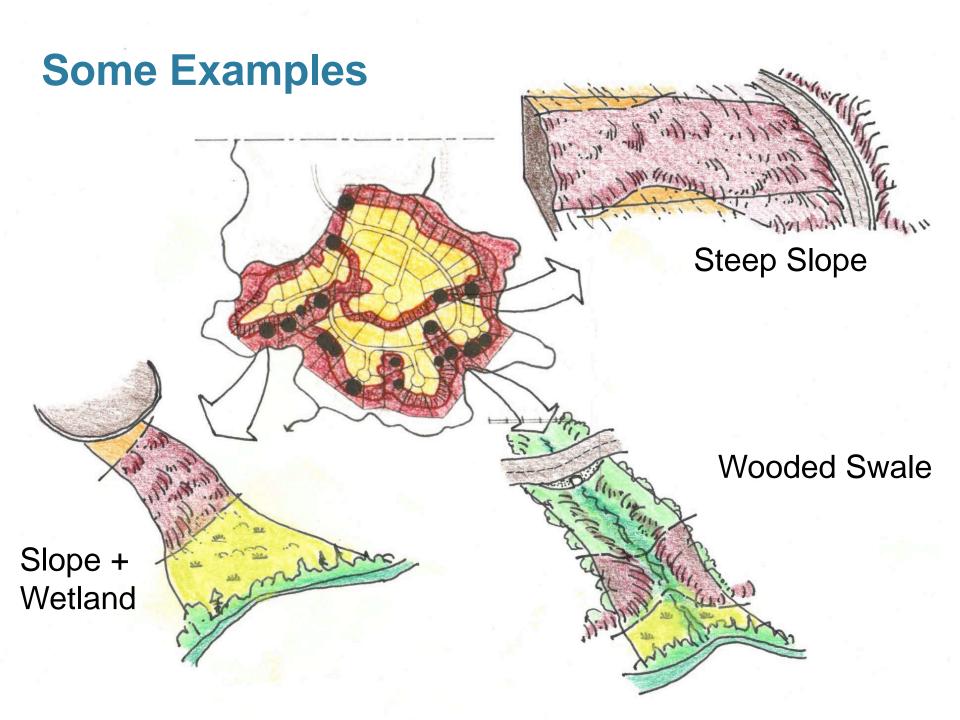
The Setting

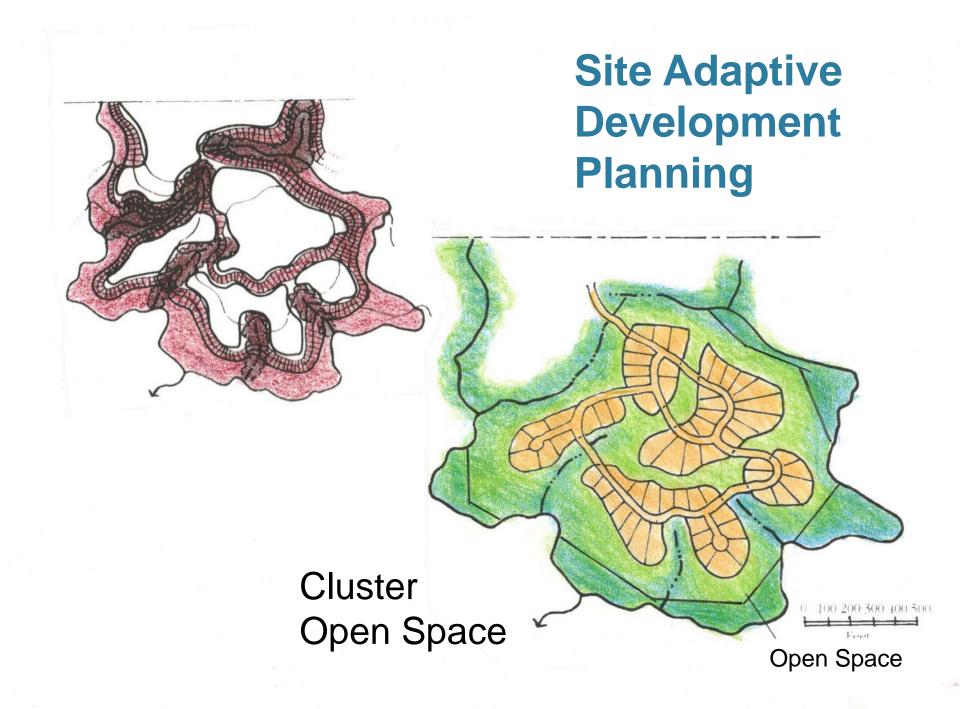
Features, Forms, Constraints

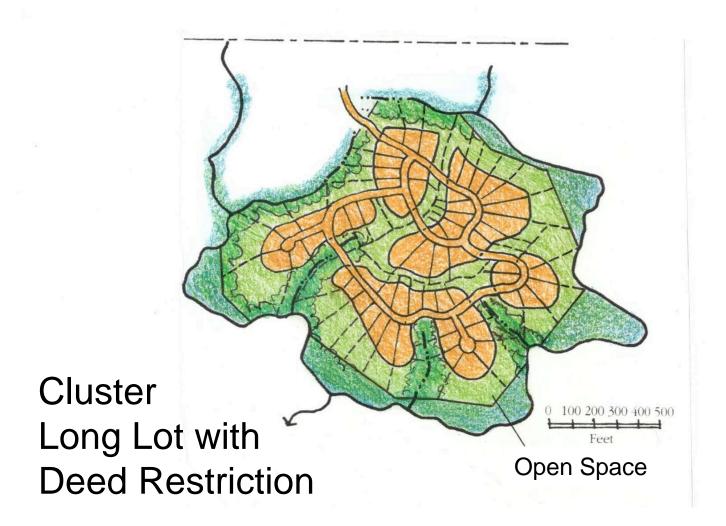


Conventional Development Planning

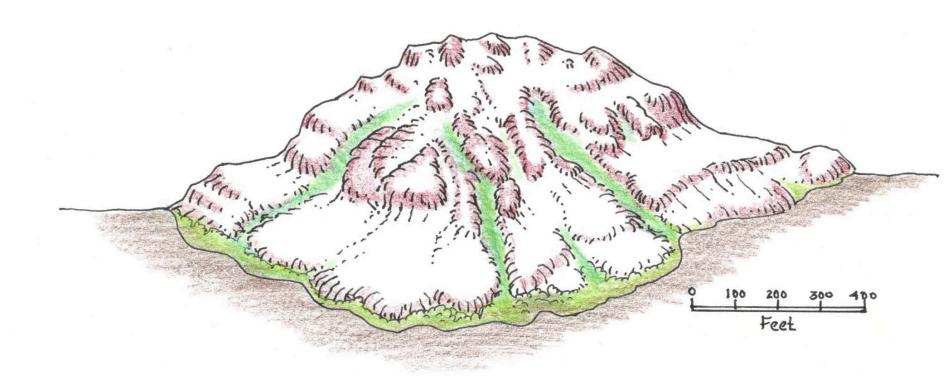




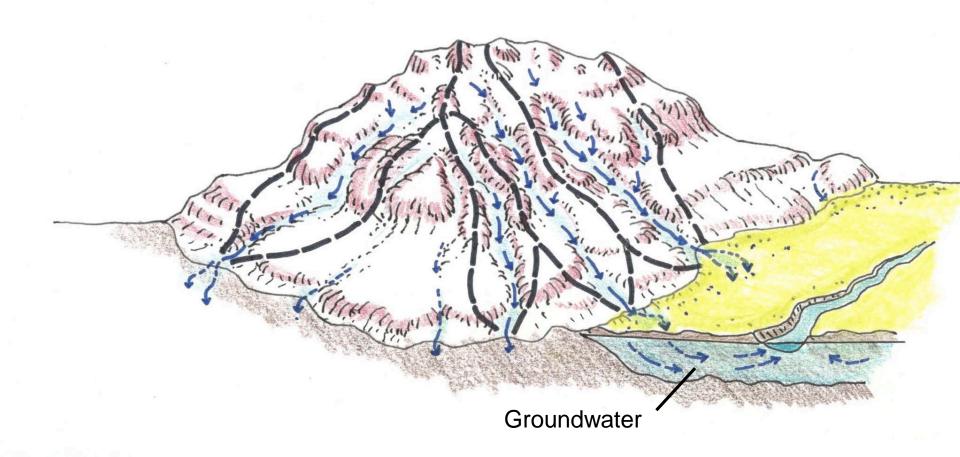




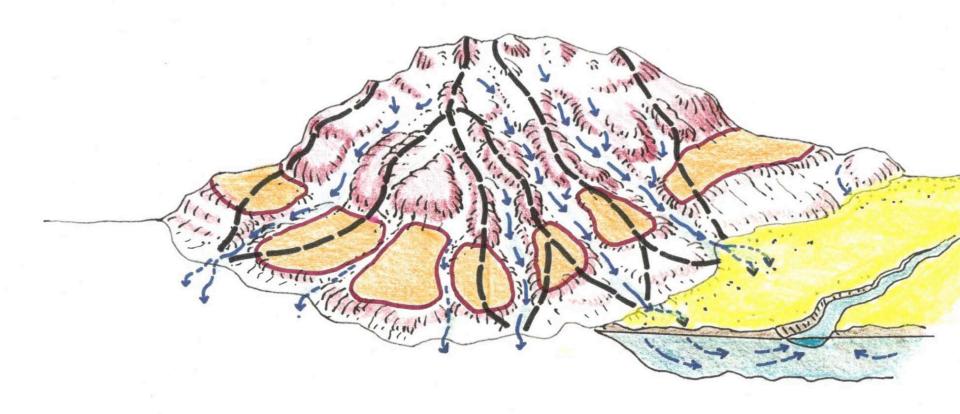
Rock Knob Forms and Features



Landforms, Slope, and Drainage



Buildable Land



Elevation Wind and Heat Flux Velocity Normal Wind Velocity Profile Flow Acceleration Flow Separation