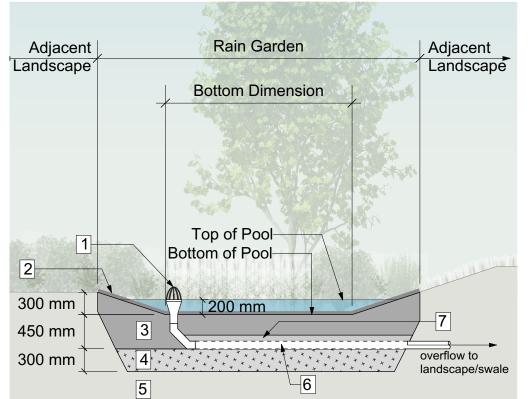
### DL 114 AFFORDABLE HOUSING

#### STORMWATER MANAGEMENT STRATEGIES

#### 1 RAIN GARDENS

Rain gardens are constructed landscape depressions that use permeable soil and plants to slow, cleanse and infiltrate stormwater runoff. Rain gardens are both functional and aesthetic elements in the landscape.



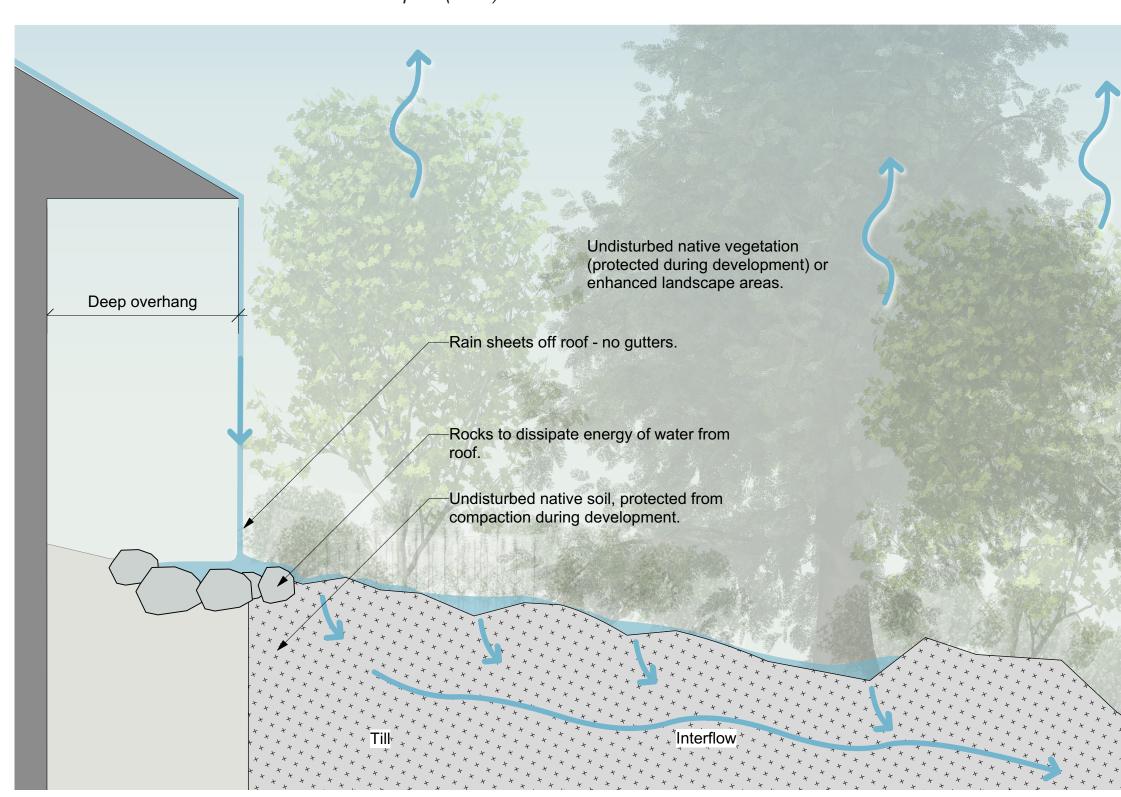
#### RAIN GARDEN MATERIALS

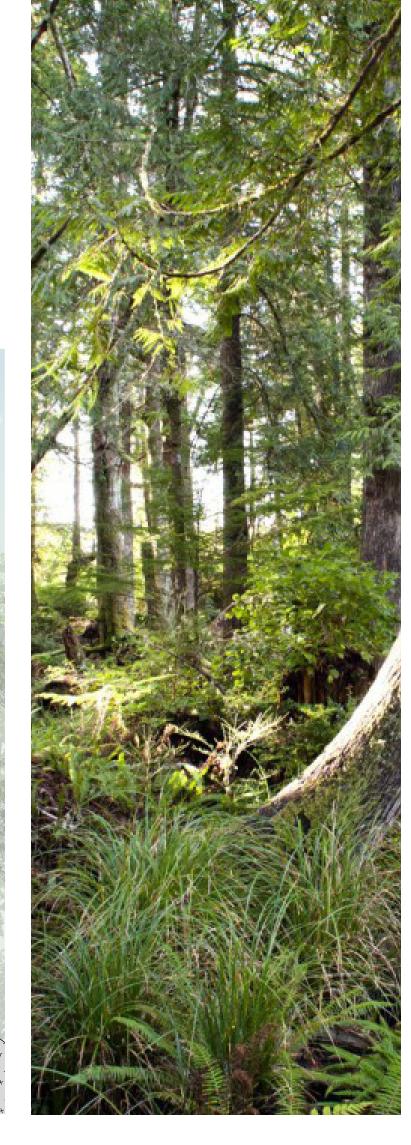
- 1. Overflow drain, 200 mm domed grate + adapte
- Composted mulch, 50 -70 mm depth
  Bio-retention growing medium, 450 mm depth
- 4. Scarified/tilled subgrade, 300 mm depth
- 5. Existing subgrade/native material
- 6. 100 mm diameter (min) perforated pipe7. 25 mm diameter drain rock, 100 mm depth

### 2 ABSORBENT LANDSCAPES

Our native forests have the capacity to slow, absorb, evaporate and transpire rainwater. We can use these absorbent landscapes to handle a portion of run-off generated by development. In order to do so, we must protect these absorbent landscapes from development activity, and disperse stormwater towards them via sheet flow.

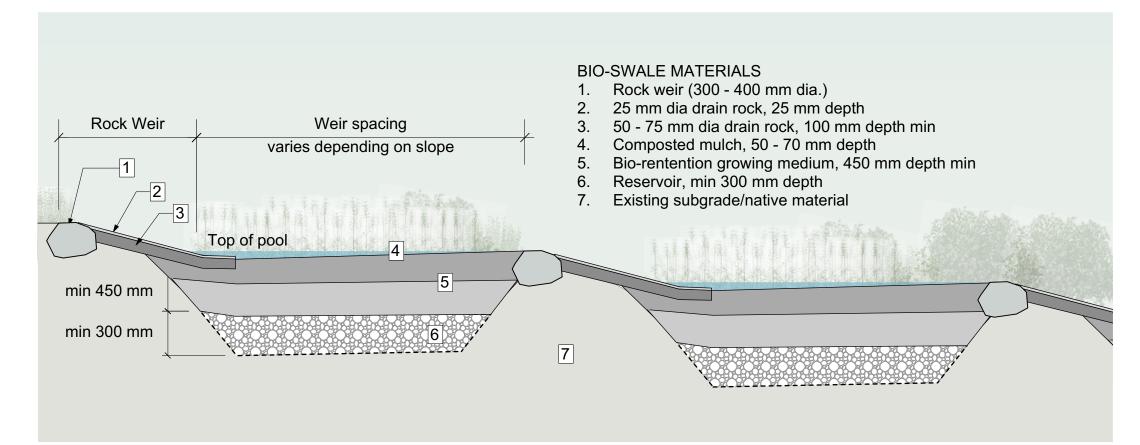
MORE INFORMATION: District of Saanich "Stormwater Best Management Practices: Absorbent Landscapes"; GVRD "Stormwater Source Control Guidelines: Absorbent Landscapes" (2005).

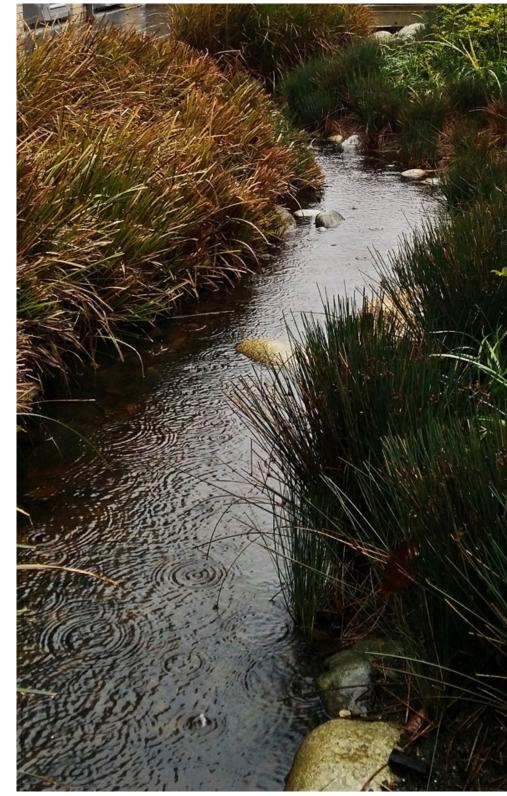




#### 3 SWALES

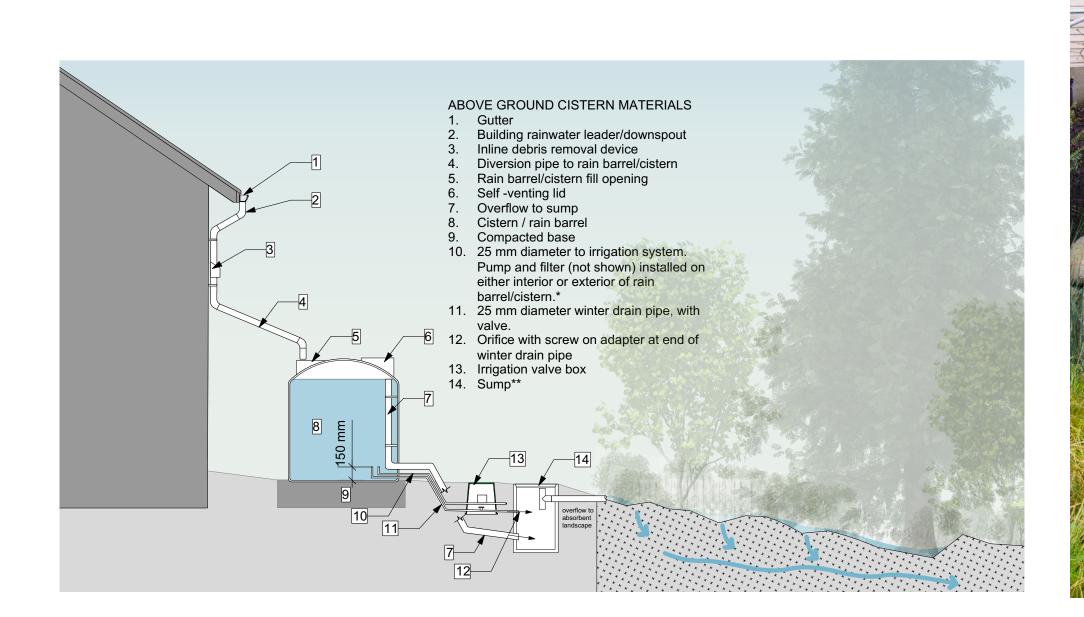
Swales are planted channels that convey stormwater runoff. On sloped sites, swales are constructed using weirs that slow the flow of water and encourage some settling, slowing, and infiltration of runoff.





#### 4 CISTERNS

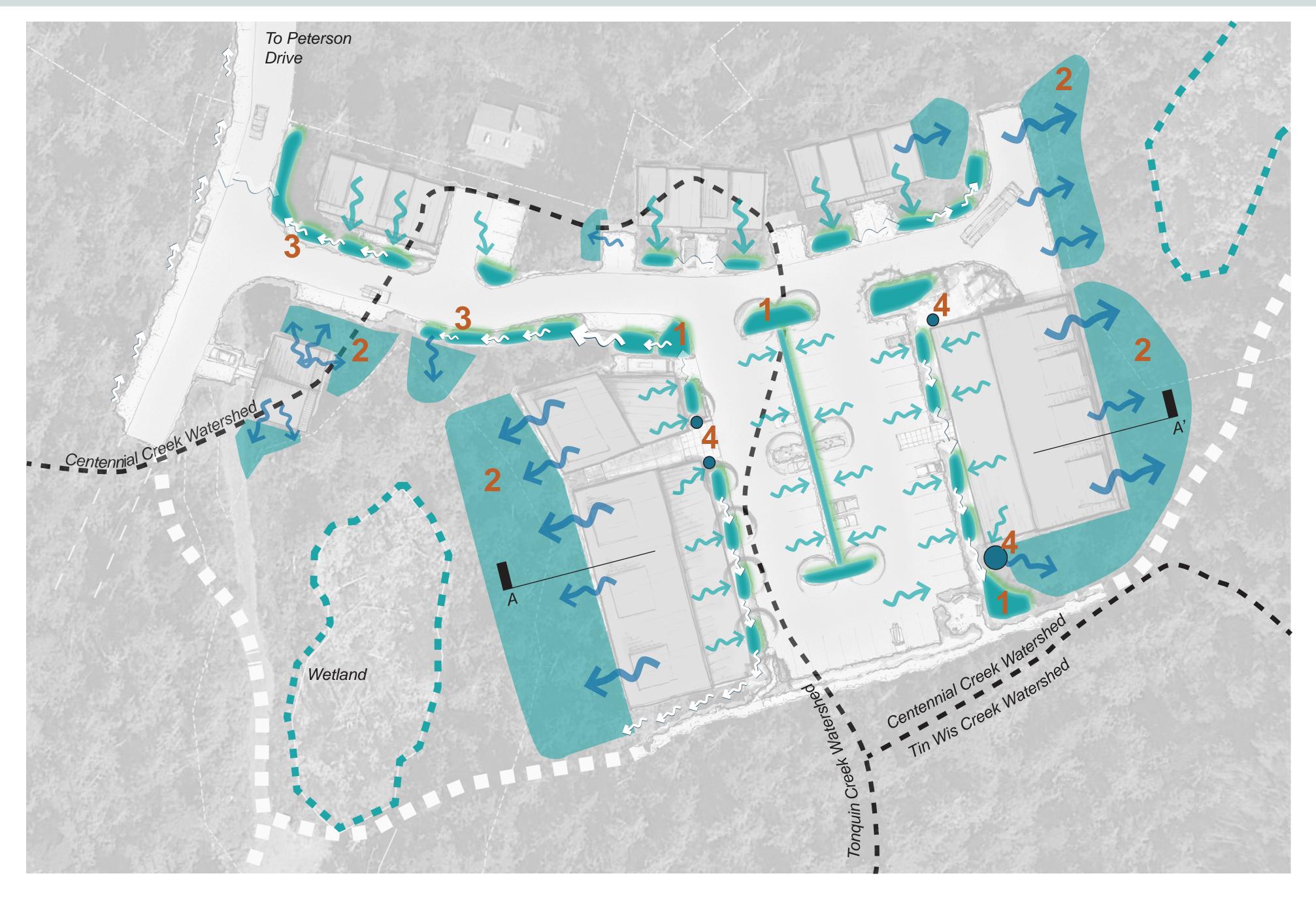
Cisterns can be designed to slowly release water during wet months, slowing the rate at which stormwater is released to swales, raingardens or absorbent landscape areas. During dryer months, the cistern stores water for irrigation or fire suppression.



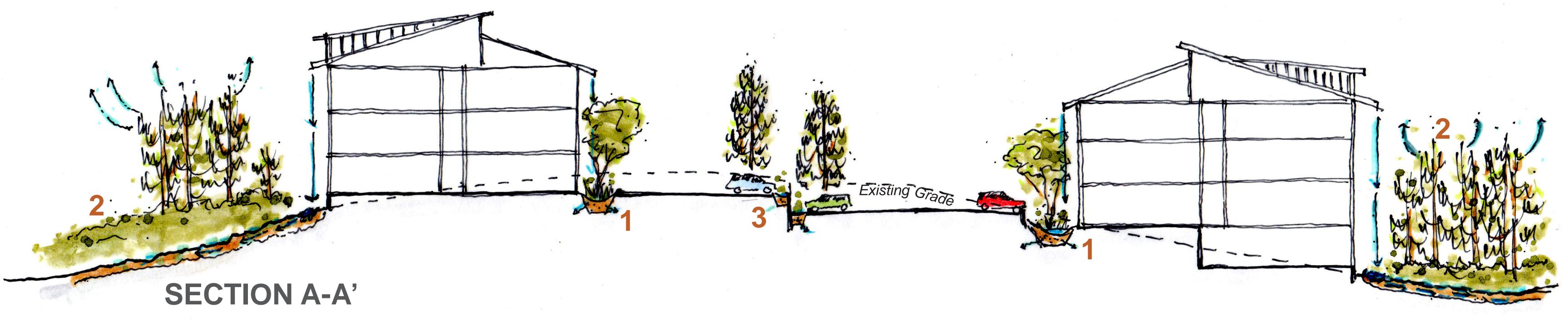


## DL 114 AFFORDABLE HOUSING

### STORMWATER MANAGEMENT SCHEMATIC PLAN



- 1 RAIN GARDENS
  - 2 ABSORBENT LANDSCAPES
- 3 SWALES
- 4 CISTERNS



# DL 114 AFFORDABLE HOUSING

### SITE ANALYSIS

