

## Stage 4 & 6 Stormwater Drainage

This information sheet outlines the requirements for stormwater drainage for the Harrisdale Green Estate, Stage 4 & 6. All residential lots located in this Estate are to comply with these requirements for drainage to meet water sensitive urban design conditions.

This information sheet has been prepared in accordance with the approved Urban Water Management Plan (UWMP).

All lots are required to infiltrate the first 15 mm of rainfall on-site. A stormwater outlet grate is to be provided by the owner in the driveway to discharge runoff to the road, for rainfall events greater than 15 mm. All infiltration devices installed on the lot must be interconnected with minimum 90 mm diameter PVC pipe work. No infiltration device shall be installed any deeper than 900 mm below ground level. While no particular type of stormwater infiltration device for lot use is mandated, devices must provide storage volumes consistent with Table 1. Volumes for each lot are based on 85% connected impervious area for the storage of 15 mm of rainfall. Table 2 provides some examples of infiltration pit storage volumes for various sizes.

All lots shall install a grated pit to function as a bubble out pit. In the event that the lot scale drainage system surcharges, the bubble out pit will allow stormwater flows to discharge overland into the council controlled street drainage system. The use of a material capable of traffic loading is advised under driveways. Owners are also recommended to ensure the top of the bubble out grate is below the house pad level to prevent flooding of the building. Figure 1 provides an example of a driveway bubble out pit.

**TABLE 1: SOAKWELL VOLUME REQUIREMENT EXAMPLES**

Lot Area (m <sup>2</sup> )	85% Contributing Impervious Area (m <sup>2</sup> )	Required Soakwell Volume (m <sup>3</sup> )
200	170	2.55
250	213	3.20
300	255	3.83
350	298	4.47
400	340	5.10

**TABLE 2: INFILTRATION PIT SIZE AND IMPERVIOUS AREA SERVED**

Chamber Diameter (mm)	Chamber Depth (mm)	Volume (m <sup>3</sup> )	Imp. Area Served (m <sup>2</sup> )
1200	900	1.02	68
1500	900	1.59	106
1800	900	2.29	153

