Drainage Assessment Report

Customer

Address

Prepared By

Date 7/06/2016

Certified Drainlayer

After a recent survey of the existing private sewer and stormwater systems at the above address, on 01.06.2016 this report was prepared by for EQC.

Copies of the following documents have been provided with this report:

- As-Built Sketch – a diagram of the existing sewerage and stormwater systems indicating where damage was identified
- Proposed Repair Strategy Sketch – a diagram of the existing systems revised to reflect any changes made as part of the repair (i.e. component relocations, rerouting of lines, etc.)
- Repair Scope of Work – a detailed record of the work to be performed

Any questions regarding this report should be directed in the first instance to

Property Overview

None

Report – Sanitary Sewer

Overview of Identified Damage

Report: 100mm Sanitary Sewer: Our CCTV survey of the private sanitary sewer system has shown earthquake related faults at inspection points which have cracked and have damaged lids. At present there is a small root intrusion which will need to be addressed In one and a cracked inspection point. Our recommendation would be to CCTV to locate where to spot dig down onto the inspection points. The first inspection both inspection points will then be removed and replaced with new 100mm PVC ones.

Scope of Works:

- GPR to locate services
- CCTV to locate points of spot digs
- Excavate and remove defective inspection points
- Replace with new 100mm PVC inspection points
- Reinstate trenches
- Remove excess spoil

Included in Repair Strategy

- All excavation
- Concrete cutting
- All materials and labour
- Removal of all spoils including vegetation

Excluded from Repair Strategy

- Any work outside of this located area
- Rock Breaking
- Work to date
- Alteration(s) to any other existing services including phone, power, gas, waste and water pipes

Report – Stormwater

Summary of Identified Damage

Report: 100mm Storm Water: Following our recent CCTV survey of the private storm water system we could not gain access to the system beyond 8metres from the boundary outlet due to root intrusion in the pipe, we believe this is because of earthquake damage. We could not gain access from DP1 as this is cemented in place and we are assuming this goes around the building to outlet connecting in DP3 as DP2 goes to ground. Our recommendation would be to relay a new system from DP1 hooking in DP 3 and a new line from DP4 to boundary. To do this we will need to uplift the deck and also cut and remove 4.5square metres of concrete which will be replaced. As this line runs from DP1 around the building we recommend putting a bubble up sump in at boundary to allow for fall for this line.

Scope of Works:

- Remove deck
- Cut and remove concrete approximately 4.5 square metres
- Remove pavers
- Excavate and remove existing earthenware
- Replace with new 100mm PVC
- Reinstate trench
- Relay pavers
- Top soil and grass seed

- Reinstate concrete
- Relay deck

Included in Repair Strategy

- All excavation
- Concrete cutting
- All materials and labour
- Removal of all spoils

Excluded from Repair Strategy

- Any work outside of this located area
- Rock Breaking
- Work to date
- Alteration(s) to any other existing services including phone, power, gas, waste and water pipes

Feedback

The repair strategy has not been discussed with the customer.

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Kind Regards,