

# Vine Newsletter



## Discovery Point

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A partnership between Australand and Landcom

**WELCOME** to the November 2009 Newsletter for Vine.

Sales in Vine at Discovery Point are still strong. With the public launch on 7<sup>th</sup> November, we are now 42% sold. Our aim is to get 50% sold before we start building construction early in 2010.

We have received a lot of positive feedback from visitors to our Sales Office about the interactive touch screens, sales office layout and of course our friendly staff.

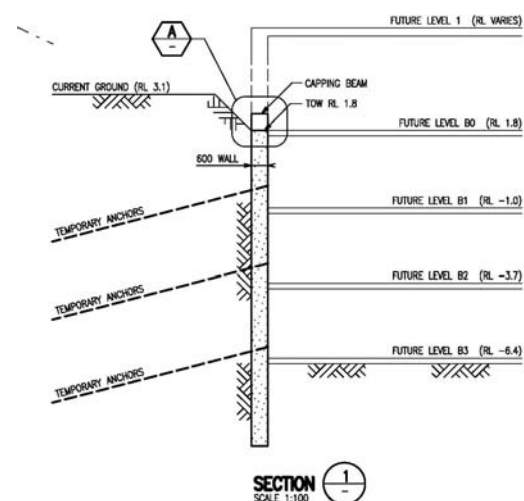
Thank you for all your positive comments.

Over the course of the next few weeks, we will be updating some of our signage around Discovery Point promoting Vine, so keep a look out for these banners.

Also, tell a friend to visit our web site [www.australand.com.au](http://www.australand.com.au) and monitor our construction progress or have a play with our interactive display.

### NOVEMBER CONSTRUCTION UPDATE

Professional Contracting have excavated down to the first basement carpark and have removed approximately 6,000m<sup>2</sup> of material so far. This means they are approximately 40% complete. Now they have to slow down and install the temporary "soil anchors". Soil anchors are high tensile strands of wire that are drilled through the diaphragm wall from the car park side and then tensioned up ("stressing") to hold the diaphragm wall vertically.



**NOTE:**

- ANCHOR LOCATIONS SHOWN INDICATIVE ONLY.
- REFER TO PILING CONTRACTORS/NAI CIVIL DRAWINGS FOR ANCHOR LOCATION AND SETOUT.
- EXTENT OF CAPPING BEAM TO BE CONSTRUCTED PRIOR TO EXCAVATION, SHOWN HATCHED.



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*November 2009 Newsletter for Vine continued.....*

The reason why these soil anchors are necessary is because on the other side of the diaphragm wall, the water table is only about 1.0metre below the surface. The pressure of the soil and water (know as "earth pressure") on this side of the wall wants to push the diaphragm wall into the excavation. The soil anchors resist this earth pressure and hold the wall in place.

The specialist contractor installing these soil anchors is "MacDonald Contractors Pty Ltd" ([www.macdonaldcontractors.com.au](http://www.macdonaldcontractors.com.au))

The first row of anchors will be stressed before the excavation recommences down to the next basement level. The earth pressure that needs to be resisted gets larger as the excavation gets deeper. The first row of soil anchors range from 45 tonne – 110 tonne and range from 12m – 35m in length. There will be 30 soil anchors in the first row. The second row of soil anchors range from 80 tonne – 220 tonne!!

To make all this happen, you will see different machinery and equipment on site. The white machine with the long extension arm is called a "drilling rig". This machine installs the soil anchors. The yellow and red machines with the bucket at the end are called "hydraulic excavators". These machines excavate the dirt and load out the material into dump trucks to be removed off site.

A challenge the development team encountered during the design of the soil anchors layout was how to avoid drilling through the existing train station stormwater pump out chamber which is located directly behind the diaphragm wall in the north-west corner of the excavation. To overcome this problem, the solution was to construct part of the carpark slab in the corner of the wall to act as a "bracing slab". This essentially acts as a wedge at the corner of the wall and eliminated the need to install soil anchors. Problem solved!! So now, when you see some triangular bits of concrete slabs suspended up in the air, you will know these are the "bracing slabs". If all goes according to plan, the excavation of the hole will be complete at the end of January 2010.

*.....Until next month  
Discovery Point Development Team*



### **DID YOU KNOW**

That 1 tonne (1,000kg) equates to the weight of an average size car. The biggest anchor will be 220 tonne. That's equivalent to the force of 220 cars resisting the earth pressure at one particular location!!!



# Vine

## November 2009 Construction Progress Photographs



Installation of soil anchors by drilling rig



Excavation of basement by hydraulic excavator



Pouring of bracing slab



Bracing slab acting as wedge



Hydraulic Excavator



Removal of buried sheet pile