

**Submission for:**

**MBA – CIVIL PROJECT - SUBDIVISION - 2012**

**JIPARU STAGE 2**



**Contact Details:**

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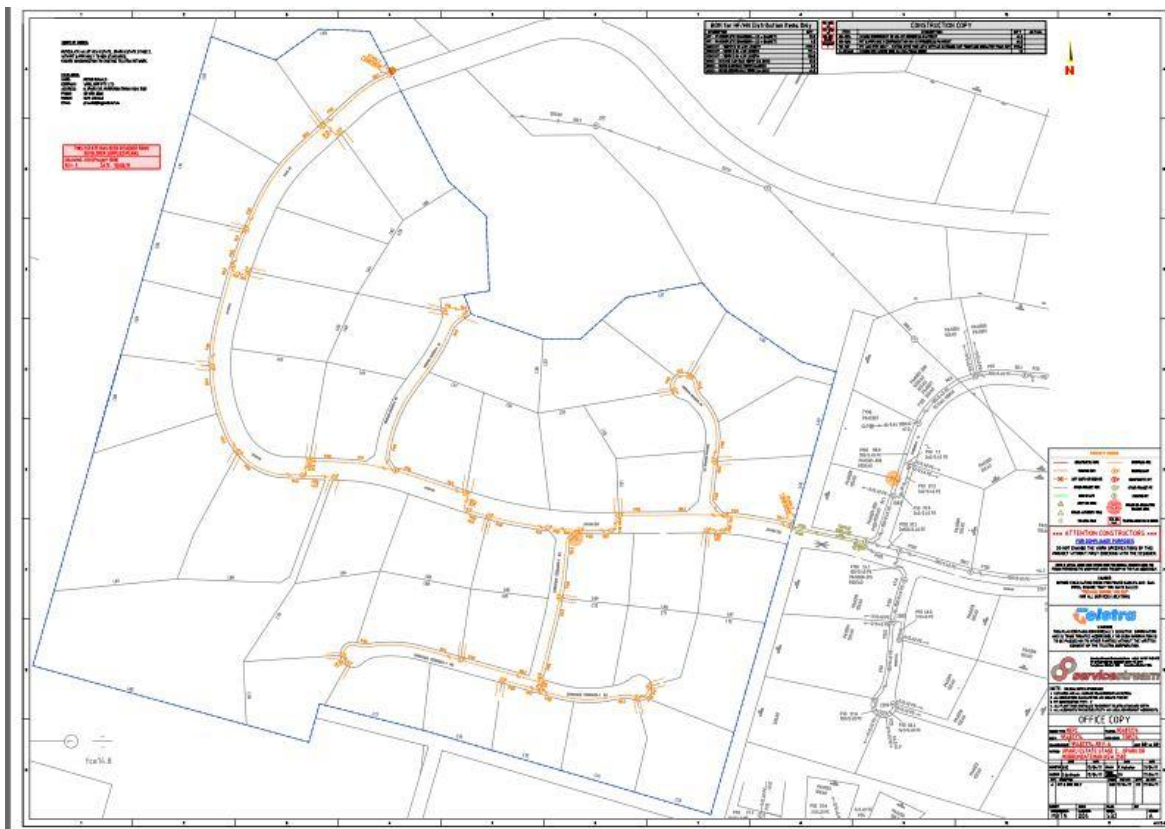
## Project Description

### Jiparu Stage 2

**Principal:** Wooljump Pty Ltd  
**Head contractor:** Hewatt Earthworks Pty Ltd  
**Contract Value:** \$2,109,500

**Commenced:** February 2011  
**Completion Date:** December 2011

This project comprises the Second Stage of the Jiparu Rural Subdivision. This privately owned site is located off Valencia Drive, Murrumbateman, NSW, about 30 km from Canberra. This second stage included 2.8kms of roads for 46 proposed rural acreage blocks.



## Hewatt Earthworks' involvement

The landscape was relatively flat undisturbed grassland consisting of trees, some dirt tracks, and 1 dam. Hewatt Earthworks was engaged to undertake the following:

- Earthworks and road pavements for the construction of a 2.8 km road throughout the subdivision



- A gravelled entry into each residential block



- A cycle path parallel to the road





- Common trench



- Creation of 2 bus bays



- Installation of Street Signs, Road Signs and Road Furniture



- Landscaping of road verges and planting of trees
- Storm water management



- Construction of 2 dams to hold stormwater



## Design

Designs provided did not fully identify the overland flow of water. The road ways were lower than the existing surrounding ground and the same with the common trench. Hewatt Earthworks identified that the alignment of the road was correct, however, the horizontal alignment was too low. These issues were raised with the Yass Valley Council and, following consultation, the design was amended to include the raising of the roads.

Unsuitable material was identified in the early stage of construction. Hewatt Earthworks was confronted with about 18,000m<sup>3</sup> of unsuitable material that had to be removed under the road pavements.

To reduce the unsuitable material, geofabric was applied to the low lying areas and the design of the road works lifted to result in a minimum of one metre cover under subgrade.

In the construction of the dams, excellent CBR material with a value of 30+ was encountered, this resulted in a saving of the import DGS 20 and DGB 20 for all roads.

Stage 1 of the Jiparu Subdivision was completed on time and on Budget, however, after a period of some months, some of the driveway entrances began to break up after house constructions. Although they were built to design, this was with only 100mm gravel sitting on 150mm of select. The Client and Hewatt Earthworks decided to construct all driveways to the same criteria as the main road networks, i.e. 200mm of gravel over 600mm select material.



## Environment

Construction needed to meet the Client's and Yass Valley Council's requirements for protection of flora or fauna. As a rural residential subdivision, native wildlife could travel through the project site.

## Conclusion

After completing Stage 1 of the Jiparu Subdivision, Peter Ruwald had no hesitation in negotiating Stage 2 with Hewatt Earthworks, to ensure a continuing high standard of finish. The project was finished on time and on budget. Mr Ruwald is looking forward to working with Hewatt Earthworks on Stage 3.

## Referees

Peter Ruwald, Wooljump Pty Ltd - 0419 420 840