

Jim Papas Civil Engineering Designer

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Design Excellence, Exceptional Service

The Chief Executive Officer
Douglas Shire Council,
P.O. Box 723,
Mosman Qld 4873

May 10, 2019
Ref.: 1407 L02

Attn. Mr. Neil Beck,

Dear Sir,

RE: APPLICATION FOR OPERATIONAL WORKS FOR THE UPGRADE OF TATI ROAD, MIALLO

I refer to your Request for Further Information dated May 3, 2019 (Your Ref. 44/3076/2019 (900802)).

We ask that Council bear in mind that this application is a result of a request by the adjacent property owner to upgrade a Council road at no cost to Council, for the convenience and benefit of the Applicant. The road is a very minor local road without any through traffic, servicing a small number of residences. There is no significant increase in traffic as result of these works. The existing track is a low volume, low speed road providing a safe and amicable community asset. Council should be cognisant of these matters and consider the Application against this background.

We respond to your information request as follows:

REQUEST

1. "Given the upgrade and improvement to the road being proposed, please investigate and confirm the capacity and condition of the existing stormwater pipes crossing Tati Road. Of primary importance is the condition of the stormwater pipes prior to the placement of the seal."

RESPONSE

This condition consists of two parts. Firstly, the capacities of the pipes and secondly the structural condition of the pipes.

As part of the design process we carried out a preliminary investigation of the pipes' capacities and their sizing appeared satisfactory and this was confirmed at our on-site inspection. The recent wet season was a significant rainfall event(s) however, we could not observe any evidence of overtopping or similar outcomes which supports our preliminary calculations.

With respect to the structural integrity or otherwise of the pipes we did not investigate this matter. We suggest that such an investigation is best carried out by Council on the grounds that eventually it is Council's decision to determine the suitability or otherwise of the pipes.

In summary, we believe that the pipe capacity is satisfactory and that it is Council's responsibility to decide on the level of their structural integrity.

Please address all
correspondence to:
**P.O. Box 2347,
Mareeba, Qld 4880**



Email: admin@jpced.com.au
Mobile: 0408 770 394

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REQUEST

2. Please report on the ability to deepen the drain on the southern side of Tati Road in order to achieve a minimum grade of 0.5% and improve drainage as part of the works.

RESPONSE

We recognise this matter during the design process. Our solution to compensate for the flat grades is to construct kerb and channel with complimentary sub soil drainage provide a positive stable drainage outcome.

We do not believe that any further action is required

REQUEST

3. Please clarify the subgrade value as there are inconsistencies regarding this value in the supporting information.

RESPONSE

The subgrade value is an assumed value to be confirmed by testing prior to construction. In this case, we have assumed a value of 7. We will reconsider the pavement design in the light of all of the subsequent test results, regardless of their values.

We do not believe that any further action is required at this time.

REQUEST

4. Investigate and report on the opportunity to improve the horizontal alignment of the road in the area of the chicane to straighten the road and the vertical alignment with respect to the crest at chainage 140m.

RESPONSE

We considered this matter as part of the design process. Again, we draw Council's attention to the nature and class of the road. It is a small local country road that ends in a cul de sac and is predominately used only by local residents.

As such we believe that we need to balance the traffic safety requirements with the amenity of the neighbourhood. We consider that the design satisfies these competing requirements as evidenced by the existing horizontal alignment and we also consider that any substantial change in horizontal alignment would encourage drivers to increase speed which in our view is contrary to the best interests of the neighbourhood and is an unsatisfactory outcome.

We do not believe that any further action is required.

REQUEST

5. Consider increasing the seal width to 5.5 metres especially where the increase in seal width does not impact on the formation width or swale drains. A seal width of 5.5 metres will provide for improved traffic capabilities of the road and improve the longevity, function and appearance of the road shoulders.

RESPONSE

Our response to this request is similar to our response above. We believe that vehicle speed is directly related to pavement width, and that in this instance, any increase in traffic speed is both unnecessary and unsatisfactory, however we also accept that there is a maintenance issue to be addressed.

A one coat seal to the road shoulders which may be a satisfactory solution to the matters raised in your request. Please advise if this is acceptable to Council.

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We have provided all the information that Council have requested and we ask that Council proceed with their assessment of the application.

However, if you have any queries or if we can be of further assistance please do not hesitate to call.

Yours faithfully,

JIM PAPAS CIVIL ENGINEERING
DESIGNER PTY. LTD.

A handwritten signature in blue ink, appearing to read 'Jim Papas', is positioned above a horizontal line.

JIM PAPAS