



November 9, 2005

Mr. Andrew Fuller  
2257 Las Canoas  
Santa Barbara, CA 93105

Re: Bridge Repair, Las Canoas Creek, Santa Barbara, CA

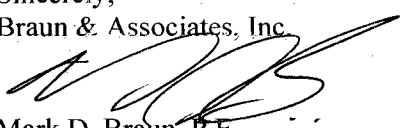
Dear Mr. Fuller;

Per your request I have received the proposed repair plan prepared by Mr. Charlie Grant for the bridge repair at Las Canoas Creek. Based on my review the following concerns are stated:

- The design assumes the existing competent boulders which are at opposite corners of the bridge will remain. Please be aware the bridge was poured on competent boulders when originally constructed. I can not assure nor guarantee that these existing boulders will not be undermined in the future as was the original sandstone boulders. Therefore if these boulders are lost in the future the bridge support will be lost and additional construction will be required at that time. I can not estimate the life of this repair or how long the existing competent boulders will remain. Please be aware however the original bridge was constructed in the 1980's on competent boulders. Since that time the support has been lost.
- The 6-inch diameter piles though strong in vertical loading would be easily damaged from a horizontal force. The protected shotcrete footing would need to be of sufficient depth so as to insure the piles do not become exposed and are subject to impact loads from sandstone boulders migrating downstream.

Should you have questions please feel free to call.

Sincerely,  
Braun & Associates, Inc.

  
Mark D. Braun, P.E.

MDB/dsc

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