



LEIMERT BRIDGE SEISMIC RETROFIT PROJECT

Public Comment Response Log

Date: 10/22/2019

No.	Commenter Information	Comment	Response
1.	<p>Mr. Bob Roat bobroat@gmail.com 3815 Brighton Ave (On behalf of Friends of Sausal Creek)</p>	<p>Did the original time series finite element model take into account the impact of the EBMUD water pipe on the bridge performance during a seismic event? if the pipe is about 200 ft long and the 2 ft diameter (estimates on my part), then it would contain about 20 tons of water. Is that an issue?</p> <p>Also, I was wondering what the impact of the longitudinal steel pipes is on the finite element model.</p>	<p>The EBMUD steel water pipeline weight was accounted for as Utility Load Case in the seismic finite element model for Leimert Bridge. The EBMUD water pipeline is 16 inches in diameter (not 24 inches in diameter as stated in the comment column) and weighs approximately 25 tons which includes weight of pipeline material and water. The EBMUD pipeline weight is less than 1% of the total Leimert Bridge weight and therefore relatively insignificant to the overall seismic performance of the bridge.</p> <p>The EBMUD water pipeline support details will accommodate for longitudinal movement due to temperature expansion and contraction; therefore, the longitudinal stiffness of the water pipeline does not affect the longitudinal behavior of the bridge in the finite element model for Leimert Bridge.</p>
2.	<p>Mr. Bob Roat bobroat@gmail.com 3815 Brighton Ave (On behalf of Friends of Sausal Creek)</p>	<p><i>Post Meeting Follow Up Question:</i> Jay: One question that came to me after the meeting (there will be others as I write up my notes)</p> <p>Did the original time series finite element model take into account the impact of the EBMUD water pipe on the bridge performance during a seismic event? if the pipe is about 200 ft long and the 2 ft diameter (estimates on my part), then it</p>	<p>The EBMUD steel water pipeline weight was accounted for as Utility Load Case into the seismic finite element model for the Leimert Bridge. The EBMUD steel water pipeline is 16-inches in diameter pipe (not 24-inches in diameter as stated in the comment column) and weights approximately 25 tons which includes weight of pipeline material and water. The EBMUD</p>



		<p>would contain about 20 tons of water. Is that an issue? Also, I was wondering what the impact of the longitudinal steel pipes is on the finite element model.</p>	<p>pipeline utility weight is less than 1% of the total Leimert Bridge weight and therefore relatively insignificant to the overall seismic performance of the bridge.</p> <p>The EBMUD pipeline support details will accommodate for longitudinal movement due to temperature expansion and contraction; therefore, the longitudinal stiffness of the water pipeline does not affect the longitudinal behavior of the bridge in the finite element model for Leimert Bridge.</p>
<p>3.</p>	<p>Mr. Bob Roat bobroat@gmail.com 3815 Brighton Ave (On behalf of Friends of Sausal Creek)</p>	<p>Is it possible if you could post the presentation on the website so people can check it out if they want to? Also, I think FOSC will send a follow-up letter just to make sure our concerns stay on the table and are addressed in the 90 percent design.</p> <p>One additional water line question that I still do not understand from the meeting. It sounded like the pipe restraints to the bridge will be addressed during this project, but not the connections at the ends of the bridge. Is that correct?</p>	<p>Yes, this Comment Response Log will be uploaded to the project page of the City's Website</p> <p>Yes, the City's project encompasses the seismic upgrade of the bridge only which requires EBMUD to remove the water pipeline supports in order to seismically retrofit the bridge members. EBMUD has taken this opportunity to upgrade the water pipeline supports since the removal and replacement of the water pipeline supports is necessary to retrofit the bridge. EBMUD plans to evaluate its pipeline to determine if upgrades to the pipeline expansion-deflection fittings are required; if yes, the fittings will be completed as a separate EBMUD project in the future.</p> <p>EBMUD is also coordinating with the City to determine whether the</p>



		<p>Does that mean that the pipe is still at risk during an earthquake?</p> <p>What would be the erosion impacts from the broken water line, and would they put the bridge footing at risk?</p> <p>Also, from FOSCs perspective, does that mean that there remains an unresolved risk of discharging a lot of chloramine-treated water to the creek in a seismic event from the 16-inch pipe, which would likely damage the fish population? What are the plans by EBMUD and the City to resolve outstanding seismic risks from the water line?</p>	<p>water pipeline is at risk during an earthquake and to evaluate whether the existing water pipeline requires upgraded expansion-deflection fittings at the ends of the bridge.</p> <p>The scope of the City's project does not include evaluation of erosion impacts of a broken water pipeline. However, the bridge footings are founded on bedrock which should be resistant to erosion. In the event of a pipeline break, EBMUD will implement best management practices to prevent environmental impacts. For example, a pipeline break will be immediately isolated by closing pipeline valves.</p> <p>EBMUD is coordinating with the City to evaluate whether expansion-deflection fittings are required to accommodate seismic displacement and if required will schedule the expansion-deflection upgrade after the City's bridge seismic retrofit project is completed.</p>
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