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9 May 2011

Brian Schwartz  
Cascade Consulting  
[brian@hartwestsa.com](mailto:brian@hartwestsa.com)

**Subject: St. Matthews Parish Noise Assessment Addendum, San Mateo CA  
CSA Project No. 08-0149**

Dear Brian

Based on the City's comments of the proposed community center, St. Matthews has revised their design intent of the project to be a Gymnasium instead of a community center. The primary goal of this change was to reduce activities on the project site, which would in turn reduce potential impacts to the surrounding neighborhood. As part of this design change, some of the meetings rooms were deleted and a proposed use limitations document was added to reduce the types of activities and the times that they occur. In summary, our previous recommendations to reduce noise are still the same.

The City of San Mateo also required an analysis of how the noise environment affects the project and how the interior noise goal of 45 dBA would be met indoors. Our analysis is as follows.

### **Reduced Activities Impacts**

Our original report dated 5 May 2008 addressed potential noise increases due to the following:

- Project generated traffic
- Community activities in the gymnasium
- Mechanical equipment
- Construction

The revisions to mitigation measures are as follows:

- The original noise generated by community center traffic was found to be less than the allowable 3 dB  $L_{dn}$  increase. Under the revised design, traffic counts would be decreased from previous projections and the traffic noise increase would still be less than 3 dB  $L_{dn}$ . Therefore, no additional mitigation would be required.

Brian Schwartz

9 May 2011

Page 2

- The proposed use limitations documents would reduce the overall activity levels in the new gymnasium. Since these activities noises may still be audible at the neighbors, the closed-door mitigation measure is still recommended.
- Regardless of project design changes, rooftop mechanical equipment is still part of the design. An acoustical consultant should be retained to evaluate noise levels and provide recommendations as necessary to reduce equipment noise levels.
- The project must meet the construction noise guidelines stated by the City regardless of design. Construction times and noise levels would be limited in accordance to the Noise Regulations of the Municipal Code of San Mateo.

### **Existing Noise Impacting the Project**

The proposed Gymnasium is located within 65 feet of the El Camino Real centerline. Based on our previous acoustical measurements, we estimate the noise exposure of the Gymnasium to be 75 dB  $L_{dn}$  at the nearest façade. The City has asked what measures are in place to reduce noise levels inside the Gymnasium to 45 dB  $L_{dn}$ .


The exterior façade of the Gymnasium would be composed of either a stucco finish or concrete masonry material and a standing seam corrugated metal roof. The layout of the Gymnasium locates storage and the mechanical room between El Camino and the gymnasium floor. These rooms act as an acoustical buffer to reduce road noise into the Gymnasium. Given this layout, we calculate the noise levels in the Gymnasium to be 36 dB  $L_{dn}$  due to traffic noise. This complies with the 45 dB  $L_{dn}$  noise goal and no further mitigation would be required.

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This concludes our comments on the subject project. Please call if you have any questions.

Sincerely,

**CHARLES M. SALTER ASSOCIATES, INC.**



Eric A. Yee  
Principal Consultant

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Brian Schwartz  
9 May 2011  
Page 3