

NEW ALBION SURVEYS, INC.

CONSULTING LAND SURVEYORS

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July 3, 2014

Ms. Wyntress Balcher
Napa County Planning Department
Via email

Regarding: Engineering Division Memo Dated June 23, 2014, Permit Number P13-00167

Dear Wyntress:

I have reviewed the calculations prepared by the County Engineering Division and have a few comments about the calculations because they differ from our previously submitted calculations. For some reason the calculations include the Winery location at the 380' setback location. We are not requesting a setback of 380' from the highway, our request is for a highway setback of 160'.

In regards to the County calculations, it appears to me the Existing Grade (EG) taken for the 3 locations were not taken at the same location in the winery at each setback location. It appears the Existing Grade at the 160' setback and at the 600' setback locations were taken at the southwest corner of the crushpad and the EG at the 380' setback location was taken outside of the development area of the winery facility. To establish consistency in the calculations, I have recalculated the Estimated Earth Work Fill Capacity utilizing the ground elevation of the southwest corner of the crush pad at the 380' setback (EG=161.5'). I have also revised the County Base Flood Elevation (BFE) at the 380' setback from 161.4' to 162'. I raised the BFE because it is Napa County policy to round the BFE up to the nearest even foot. I have also edited the Average Fill Height (AFH) at both the 160' setback and the 380' setback because they are incorrect. By utilizing the existing topographic information of the two locations, the grade change across the existing ground at the 160' setback location is 2.5' (164'-161.5') and the grade change across the existing ground at the 380' setback location is 3.5' (161.5'-158').

I have added two additional lines to the attached table to reflect the revised data. The net result is the estimated Earth Work Fill Quantity at the 160' setback is going to be approximately 2,800 cubic yards and at the 380' setback it is going to be approximately 3,920 cubic yards

Another issue to consider when comparing the setback locations is the earthwork required for road construction. The County Engineering Division calculations clearly state earthwork for road construction was not considered. Obviously the 380' setback location will require additional Earthwork and Fill.

Please contact me if you have any questions or comments.

Very truly yours;
New Albion Surveys, Inc.

Jon M Webb, PLS 6709
President

P13-00167 – LMR RUTHERFORD ESTATE

ENGINEERING ESTIMATES

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Winery Locaton (offset from centerline of Hwy29)	Existing Grade (MSL NAVD88)	Base Flood Elevation (MSL NAVD88)	Design Flood Elevation (MSL NAVD88)	Estimated Earthwork Fill Quantity (cy)	Average Fill Height (ft.)
160 ft. offset	163.5	164	165	3,920	3.5'
380 ft. offset	162	161.4	162.4	1,215	1.4'
600 ft. offset	158.4	159.5	160.5	5,170	2.7'
160 ft. offset	163.5	164	165	2,800	2.5'
380 ft. offset	161.5	162	163	3,920	3.5'

The information provided above is based on the best available data and shall only be used for reference. The Base Flood Elevation determined by the Simplified Method-Contour Interpolation may not be used by the community or developer to complete an Elevation Certificate used for flood insurance rating. A Detail Methodology shall be used for SFHA Zone A for completing the Elevation Certificate for flood insurance rating. In addition the earthwork estimates does not take into consideration the amount of earthwork for the sides of the pad or the driveway.