HUFFMAN ENGINEERING & SURVEYING

537 College Avenue, Suite A, Santa Rosa, CA 95404
707-542-6559 Fax 542-6621

January 27, 2012

Monte Rio Recreation and Park District
P.O. Box 877
Monte Rio, CA 95462

RE: 9725 Main Street, Monte Rio

To Whom It May Concern,

The septic system for the above-mentioned project will consist of a bottomless sand filter and an Orenco Pretreatment unit Advantex AX100. The Advantex unit will reduce the BOD TSS and TKN to levels to near drinking water standards. The sand filter will then polish the effluent to drinking water standards prior to entering the groundwater. A disinfectant system can also be added to the system to further reduce the chance of transmission of waterborne viruses to the groundwater.

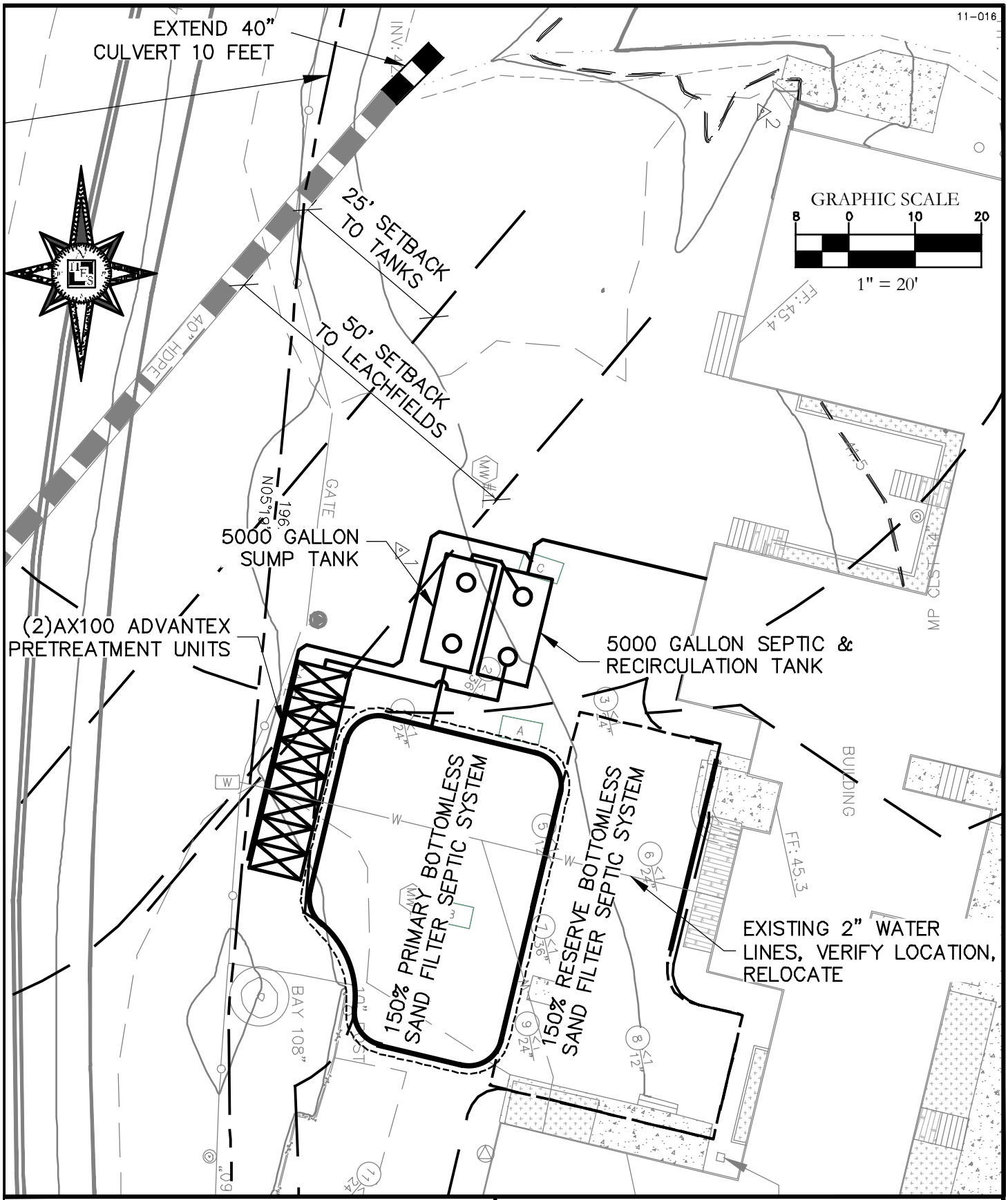
Based on the groundwater study there is at least an 8 foot separation from the ground surface to the groundwater during normal winter months. Since the point of discharge of the effluent is applied to a 2 foot thick sand media the effluent will actually travel through a minimum of 10 feet of unsaturated soil and sand prior to entering the winter groundwater. Treated effluent will enter the sand filter from the Advantex unit. Based on the result of the percolation testing and the profile test pits the effluent entering the bottomless sand filter will travel in a vertical direction through the sand media and the underlying soil. The treated effluent will enter the groundwater and then eventually travel horizontally toward Dutch Bill Creek.

The reason for choosing the Advantex unit is their history of performance. The unit can be adapted to the specific conditions. The reason for choosing the bottomless sand filter is that this is a proven and accepted disposal technology for parcels near the Russian River by the North Coast Regional Water quality Control Board.

If you have any questions please call us at 542-6559.

Sincerely,

Rob Huffman, PE
Professional Engineer
RH:fv
11-16



Septic System Schematic

975 Main Street
Monte Rio, California
A.P. N. 096-060-007,008,009

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