R O Anderson

RECEIVED

MAY 09 2011

May 7, 2011

COMMUNITY DEVELOPMENT

Via Hand Delivery

Mimi Moss, AICP Director/Flood Plain Administrator DOUGLAS COUNTY COMMUNITY DEVELOPMENT 1594 Esmeralda Avenue Minden, NV 89423

Douglas County: Smelter Creek Flood Control Project Conceptual Design Documents

Dear Mimi

Thank you, again, for meeting with us on April 22nd concerning potential Flood Hazard Mitigation projects in 2011.

In furtherance of our meeting, please find attached the conceptual design sheets (1 through 4) for the proposed Smelter Creek Flood Control Project in Gardnerville. As you will note from your review of these sheets, the proposed detention basin is proposed to be located immediately east of the Ruhenstroth development on ground managed by BLM. The facility is proposed as an on-stream (Smelter Creek) structure with a total height of 33 feet, resulting in 140 acre-feet of capacity below the proposed spillway. As shown on the attached Stage-Storage Curve and basin hydrographs, this capacity is sufficient to fully detain the estimated 1% recurrence interval (100-year) storm.

The projected results of constructing such a detention basin at this location are shown on Sheet 4, *Preliminary Analysis of FIRM Changes*. Based on our initial estimates of probable release rates from this facility, as well as the downstream hydraulic capacity within the floodplain, we estimate that about 98 parcels will be removed from the primary flood zones (A and AE); an additional 82 parcels would be removed from the Shaded Zone X.

We are now in the process of preparing a Preliminary Estimate of Probable Project Costs. Once we have that data assembled we will forward it to you for your consideration and comments.

2055 Office Box 2229 Minister Newada 25423 - 775/7822322 - 775/782/7084 www.60Andersen.com

R O Anderson

Ms. Mimi Moss May 7, 2011 Page 2 of 2

We appreciate your expressed willingness to submit this important project to the Nevada Hazard Mitigation Planning Commission for their consideration of funding through the 2011 USFHMG Program.

Best professional regards.

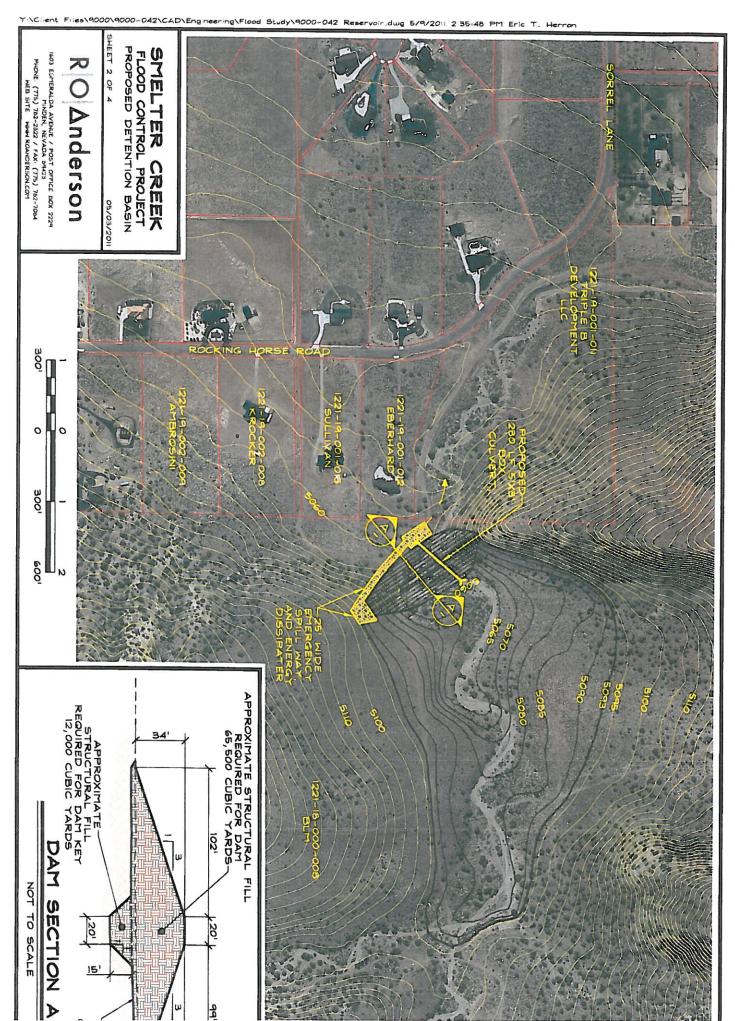
Yours faithfully,

R.O. ANDERSON ENGINEERING, INC.

Robert O. Anderson, P.E., W.R.S., CFM
Principal Engineer

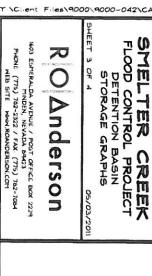
Attachments

cc: Mahmood Azad, P.E.T. Michael Brown



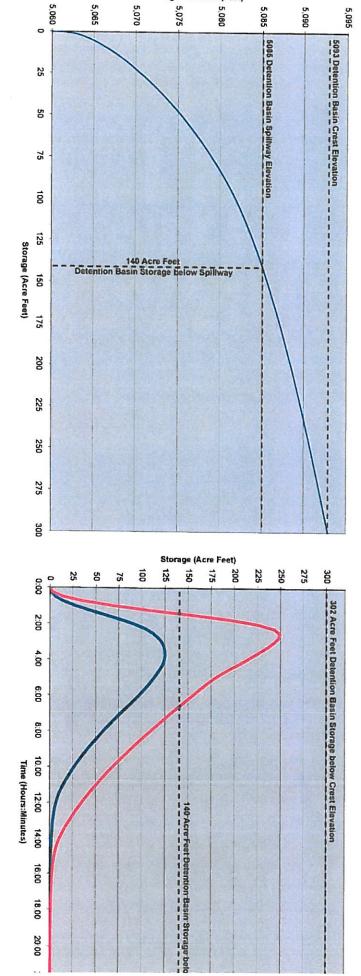
Stage Elevation (Feet)











N