

OFFICIAL RECORD

Requested By:  
DC/COMMUNITY DEVELOPMENT

Assessor's Parcel Number: N/A

Date: MARCH 9, 2009

Recording Requested By:

Douglas County - NV  
Karen Ellison - Recorder  
Page: 1 Of 4 Fee: 0.00  
BK-0309 PG- 1744 RPTT: 0.00



Name: LYNDA TEGLIA, COMMUNITY DEVELOPMENT

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Real Property Transfer Tax: \$ N/A

CONTRACT #2009.049

(Title of Document)

FILED

NO. 2009.049

2009 MAR -9 AM 9:51

AMENDMENT NO. 04

CONTRACT BETWEEN DOUGLAS COUNTY  
AND  
RO Anderson Engineering  
FOR  
Martin Slough CLOMR and LOMR

TED THIRAN  
CLERK

*[Signature]*  
DEPUTY

WITNESSED:

Whereas, on October 11, 2007, Douglas County, a political subdivision of the State of Nevada (COUNTY), and RO Anderson, an independent contractor (INDEPENDENT CONTRACTOR), entered into a contract to prepare a Letter of Map Revision (LOMR) and a Conditional Letter of Map Revision (CLOMR) for the Martin Slough (CONTRACT); and

Whereas, the LOMR was submitted to FEMA for comments and in response FEMA is now requiring additional hydraulic encroachment analyses and a floodway to be identified in the Martin Slough.

Now, therefore, in consideration of the agreements herein made, the parties mutually agree to amend the Contract as follows:

1. Amend the Contract to require RO Anderson to respond to FEMA comments on the LOMR application by providing an encroachment hydraulic analysis and identifying an additional floodway in the Martin Slough, in accordance with the Scope of Work, attached hereto and incorporated herein by reference.
2. All other sections of the original Contract and previous amendments remain in full force and effect.

*[Signature]*  
\_\_\_\_\_  
Independent Contractor

5 Feb 09  
Date

Mahmoud Azed  
\_\_\_\_\_  
County Engineer

6 Feb 09  
Date

Attest: *[Signature]*  
\_\_\_\_\_  
County Clerk

6 Feb 2009  
Date

County Clerk *By: Janyne Judson*  
*clerk to the Board*

Approved as to Form:  
*[Signature]*  
\_\_\_\_\_  
District Attorney

2-5-2009  
Date

February 5, 2009

Mr. Mahmood Azad, P.E., COUNTY ENGINEER  
DOUGLAS COUNTY COMMUNITY DEVELOPMENT  
P.O. Box 218  
Minden, NV 89423

### Scope of Services and Fee Proposal for Contract Amendment No. 4 Floodway Analysis of Martin Slough

Dear Mahmood:

The purpose of this letter is to convey our proposed scope of services and fee proposal to accomplish a floodway analysis for the reach of Martin Slough from Stockyard Road to Toler Avenue. This is a supplemental task to the existing contract for the flood hydraulics study of Martin Slough that is currently in progress.

Based on the review comments from FEMA, establishment of a floodway for the study reach of Martin Slough is required. This occurred because portions of the study reach of Martin Slough experienced sufficient floodplain-fringe encroachment from historic development to exceed the allowable increase of 1.0 ft in Base Flood Elevation (BFE). As a result, those portions of the study reach are out of compliance with National Flood Insurance Program (NFIP) regulations. Therefore, FEMA is requiring establishment of a floodway along the study reach of Martin Slough.

We offer the following scope of services and fee proposal.

**Task 8: Floodway Analysis.** The purpose of this task is to use (and update) the Existing Conditions Model (ECM) already developed for the on-going flood hydraulics study to develop a regulatory floodway. The technical approach is to use the interpolated BFEs from the Effective Model at each Existing Conditions Model cross section to determine the allowable rise, not to exceed 1.0 ft greater than the original (1982 Effective Model) Base Flood Elevation. This is an iterative approach wherein adjustments are made to each cross section, the model (computer program HEC-RAS) is operated, and the impact on the changed cross section and adjacent cross sections in the encroached ECM are examined for changes in water-surface elevation. The process is continued cross section by cross



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BK- 0309  
PG- 1746

MAILING ADDRESS:  
P.O. Box 2229  
Minden, NV 89423  
www.ROAnderson.com

1603 Esmeralda Avenue  
Minden, NV 89423  
☎ 775.782.2322  
☎ 775.782.7084

501 Old Mammoth Road  
Mammoth Lakes, CA 93546  
☎ 760.935.2005  
☎ 775.782.7084

# R O Anderson

Mimi Moss  
January 29, 2009  
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section until the floodway boundary for all cross sections in the encroached ECM is determined.

With completion of the floodway analysis, our report in support of the application for a Letter of Map Revision will be revised to include results from the alternative mitigation project analyses, floodway analysis, updated exhibits, and the MT-2 application for FEMA submission for Douglas County review and submission to FEMA.

It is anticipated that meetings between Dr. Thompson and Douglas County personnel will occur approximately every two weeks through project completion.

The time required to complete this work and supply updated results for Douglas County review is forty-five (45) days from notice to proceed.

**Proposed Fee: \$12,950.**

Attached is a copy of the proposed contract amendment for your review and approval. If you have any questions, please contact me at 775.215.5013 (direct line) or email at [dthompson@roanderson.com](mailto:dthompson@roanderson.com). Alternatively, Mr. Rob Anderson can be contacted at 775.782.2322. Receipt of the executed Contract Amendment will serve as our notice to proceed.

Yours sincerely,

R.O. ANDERSON ENGINEERING, INC.



David B. Thompson, Ph.D., P.E., D.WRE, CFM  
Director of Engineering

cc: Cathe Pool, P.E.  
Senior Civil Engineer

Attachments

**CERTIFIED COPY**

The document to which this certificate is attached is a full, true and correct copy of the original on file and on record in my office.

DATE: Mar 9, 2009  
TAMARA Clerk of the 5th Judicial District Court  
of the State of Nevada, in and for the County of Douglas.  
By Chad M. Heston Deputy

