



# Federal Emergency Management Agency

Washington, D.C. 20472

NOV 09 2006

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:  
Case No.: 06-08-B365R

The Honorable Jim Shaw  
Mayor, City of Rapid City  
300 Sixth Street  
Rapid City, SD 57701

Community: City of Rapid City, SD  
Community No.: 465420

104

Dear Mayor Shaw:

This responds to a request that the Department of Homeland Security's Federal Emergency Management Agency (FEMA) comment on the effects that a proposed project would have on the effective Flood Insurance Rate Map (FIRM) for Rapid City, South Dakota, in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated April 13, 2006, Ms. Tonya Tordsen, P.E., Dream Design International Inc., requested that FEMA evaluate the effects that a more detailed hydrologic analysis, proposed channel modifications, and updated topographic information along an unnamed source associated with the construction of the Freeland Meadows subdivision, from approximately 75 feet downstream of Country Road to approximately 1,030 feet upstream of West Nike Road, would have on the flood hazard information shown on the effective FIRM. Since the date of the effective FIRM, the City of Rapid City has annexed land from Pennington County. The proposed revised reach of the unnamed source that affects the City of Rapid City extends from 750 feet upstream of Country Road to just downstream of West Nike Road. The remainder of the revised reach is within unincorporated areas of Pennington County; therefore, a separate Conditional Letter of Map Revision (CLOMR) for that community was issued on the same date as this CLOMR.

The proposed channel modifications include constructing a grass-lined channel throughout the proposed subdivision, as well as two 14-foot wide by 8-foot high culverts under the proposed Maple Avenue crossing and ten 10-foot wide by 4-foot wide culverts under the proposed Lacrosse Street crossing.

The Special Flood Hazard Area (SFHA), the area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood), shown on the effective FIRM, is designated Zone A, with no Base Flood Elevations (BFEs) determined. As a result of the detailed hydrologic and hydraulic analyses, an SFHA designated Zone AE, with BFEs determined, will be established for the entire proposed revised reach of the unnamed source.

All data required to complete our review of this request for a Conditional Letter of Map Revision (CLOMR) were submitted with letters from Mr. Brent H. Johnson, P.E., Houston Engineering Inc., and Ms. Tordsen.

We reviewed the submitted data and the data used to prepare the effective FIRM for your community and determined that the proposed project meets the minimum floodplain management criteria of the NFIP. The submitted existing conditions HEC-RAS hydraulic computer model, dated April 11, 2006, based on updated topographic information, was used as the base conditions model in our review of the proposed conditions model for this CLOMR request. We believe that, if the proposed project is constructed as shown in the submitted report entitled "Freeland Meadows CLOMR," prepared by Dream Design International Inc. and Houston Engineering Inc., dated April 13, 2006, and the data listed below are received, the floodplain boundaries of the base flood will be delineated as shown on the work map entitled "Certified Topographic Workmap with Floodplain - Proposed Conditions," prepared by Houston Engineering, Inc., dated April 7, 2006.

As a result of the proposed project, the base flood water-surface elevations (WSELs) for the unnamed source will increase compared to the existing conditions WSELs. The maximum increase in base flood WSEL, 7.3 feet, will occur approximately 1,800 feet upstream of Country Road. As a result of the proposed project, the width of the SFHA will increase in some areas and decrease in some areas compared to the effective SFHA width. The maximum increase in SFHA width, 90 feet, will occur approximately 100 feet downstream of West Nike Road. The maximum decrease in SFHA width, 500 feet, will occur approximately 900 feet upstream of Country Road.

Upon completion of the project, your community may submit the data listed below and request that we make a final determination on revising the effective FIRM.

- Detailed application and certification forms, which were used in processing this request, must be used for requesting final revisions to the maps. Therefore, when the map revision request for the area covered by this letter is submitted, Form 1, entitled "Overview & Concurrence Form," must be included. (A copy of this form is enclosed.)
- The detailed application and certification forms listed below may be required if as-built conditions differ from the preliminary plans. If required, please submit new forms (copies of which are enclosed) or annotated copies of the previously submitted forms showing the revised information.

Form 2, entitled "Riverine Hydrology & Hydraulics Form"

Form 3, entitled "Riverine Structures Form"

Hydraulic analyses, for as-built conditions, of the base flood, together with a topographic work map showing the revised floodplain and floodway boundaries, must be submitted with Form 2.

- Effective October 30, 2005, FEMA revised the fee schedule for reviewing and processing requests for conditional and final modifications to published flood information and maps. In accordance with this schedule, the current fee for this map revision request is \$4,000 and must be received before we can begin processing the request. Please note, however, that the fee schedule is subject to change, and requesters are required to submit the fee in effect at the time of the submittal. Payment of this fee shall be made in the form of a check or money order, made payable in U.S. funds to the National Flood Insurance Program, or by credit card. The payment must be forwarded to the following address:

Federal Emergency Management Agency  
Fee-Charge System Administrator  
P.O. Box 22787  
Alexandria, VA 22304

- As-built plans, certified by a registered professional engineer, of all proposed project elements
- Community acknowledgment of the map revision request
- Evidence of notification of all property owners who will be affected by any increases in width and/or shifting of the base floodplain and/or increases in water-surface elevations (WSELs).
- We are processing a CLOMR, submitted September 1, 2006 (Case No. 06-08-B659R), that proposes to revise a reach of the unnamed source that is adjacent to and partially overlaps the revised reach for this CLOMR. If a Letter of Map Revision (LOMR) to follow this CLOMR is required after the LOMR following Case No. 06-08-B659R becomes effective, all models and SFHA delineations must be modified to tie into the new effective information.

After receiving appropriate documentation to show that the project has been completed, FEMA will initiate a revision to the FIRM.

The basis of this CLOMR is, in whole or in part, a channel-modification/culvert project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities assure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the modified channel and culvert rests with your community.

This CLOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by calling the Director, Federal Insurance and Mitigation Division of FEMA in Denver, Colorado, at (303) 235-4830. If you have any questions regarding this CLOMR, please call our Map Assistance Center, toll free, at 1-877-FEMA MAP (1-877-336-2627).

Sincerely,

*Kevin C Long*

Kevin C. Long, CFM, Project Engineer  
Engineering Management Section  
Mitigation Division

For: Doug Bellomo, P.E., Acting Chief  
Engineering Management Section  
Mitigation Division

Enclosures

cc: The Honorable Ken Davis  
Chairperson, Pennington County  
Board of Commissioners

Mr. Dan Jennissen  
Planning Director  
Pennington County

Mr. Dion Lowe  
Project Engineer  
Utilities Department  
City of Rapid City

Ms. Tonya Torden, P.E.  
Dream Design International, Inc.

Mr. C. Gregg Thielman, P.E.  
Houston Engineering, Inc.

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HOUSTON  
ENGINEERING