

March 7, 2018

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

Kavitha Pulugundla, EIT, CFM
AECOM, a member of Compass PTS JV
kavitha.pulugundla@aecom.com
T: 571-214-5589

Re: Mirehaven Arroyo A Improvements LOMR Request (Case No. 18-06-0625P)
FEMA Comment Response Letter
FEMA Case No. 18-06-0625P
COA Hydrology File No. H09D017D

Dear Kavitha:

This letter supports the second submittal to FEMA of the Letter of Map Revision (LOMR) Request package for the case number referenced above located within the City of Albuquerque and Unincorporated Areas of Bernalillo County, New Mexico. The request has been revised to address your request for additional data, dated February 1, 2018, and in accordance with our phone call on February 28, 2018.

Your comments provided in the letter dated February 1, 2018, and a response to each are provided below:

1. The submitted application did not include an existing/pre-project conditions hydraulic model. The existing/pre-project conditions model should reflect any modifications that have occurred within the floodplain since the date of the effective model but prior to construction of the project for which the revision is being requested.
 - *Response: As documented in your email dated February 26, 2018, a pre-project model will not be required. The project has already been constructed and no pre-project model is readily available for submittal.*
2. Subparagraph 65.6 (a)(2) of the National Flood Insurance Program (NFIP) regulations states that to avoid discontinuities between revised and unrevised flood data, hydraulic analyses must have a logical transition between revised elevations of the 1-percent-annual-chance (base) flood and those developed previously for areas not affected by the revision. Our review revealed that the post-project conditions hydraulic analyses along Mirehaven Arroyo A do not tie-in to the effective hydraulic analysis within 0.5 foot at the downstream end of the revised reach. Please provide revised post-project conditions analyses for Mirehaven Arroyo A that tie-in to the effective hydraulic analysis within 0.5 foot, or within 0.0 feet if practical.
 - *Response: As discussed in our February 28, 2018, phone call, we have provided a graphical tie-in of the revised SFHA limit to the effective SFHA limit. Because the effective SFHA downstream of the proposed revision is Zone AO and there is no effective hydraulic analysis, tie-in to the effective elevations is not necessary.*

Engineering ▲

Spatial Data ▲

Advanced Technologies ▲

3. Our review revealed that the HEC-RAS levee option was used in the submitted post-project conditions hydraulic analysis at Cross Section 6484. Please remove the levee option if the right channel bank is not acting as a levee. If it is acting as a levee please show that it meets the requirements of Section 65.10 of the National Flood Insurance Program (NFIP) regulations, and complete the portion of Application/Certification Form 3, entitled "Riverine Structures Form," relating to berms for this project. Please note that an additional fee is required to process a LOMR that involves a berm/floodwall/levee system.
 - *Response: The levee option has been removed from the referenced HEC-RAS cross-section as it was only used to prevent flow from showing in the hydraulically isolated Mirehaven Arroyo A tributary from the north. The cross-section has been shortened to exclude that tributary, which produces the same model results. The shortened cross-section is reflected on Figure 2-Topographic Work Map.*
4. The following comments are based on our review of the post-project conditions hydraulic analysis and the submitted topographic work map entitled "Mirehaven Arroyo A Improvements LOMR, Figure 2-Topographic Workmap," prepared by Bohannon Huston, Inc., dated November 10, 2017. Please provide an explanation for these discrepancies, or make the appropriate changes and submit a revised work map that is certified by a registered Professional Engineer (P.E.).
 - a. The revised delineation does not tie-in with the effective delineation at the downstream end at Cross Section 1606.
 - *Response: As discussed in our February 28, 2018, phone call, we have provided a graphical tie-in of the revised SFHA limit to the effective SFHA limit.*
 - b. The stream centerline is outside the base floodplain at Cross Section 6484.
 - *Response: The stream centerline has been revised to follow the arroyo low flow channel at that location and is now within the base floodplain.*
5. Please submit a copy of the newspaper notice distributed by City of Albuquerque and Bernalillo County stating their intent to revise the effective flood hazard information (i.e., revise or establish base (1-percent-annual-chance) flood elevations, the base flood floodplain, along Mirehaven Arroyo A, and Mirehaven Arroyos B & C. Alternatively, please submit documentation that individual legal notices were sent to all the property owners affected by any changes in the flood hazard information. Documentation of legal notice may take the form of a copy of the letter sent and either a mailing list or certified mailing receipts. Please submit a draft copy of the notification for verification of content, prior to publication or distribution. One of the attached templates may be used to prepare the draft notification. Please note that the submitted draft property owner notification will be reviewed after the hydraulic model and work map are finalized. Please do not distribute the final notification until we have approved the draft notice.

Ms. Kavitha Pulugundla
AECOM, a member of Compass PTS JV
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- *Response: A draft of the newspaper notice is provided for your review. Please let us know if this newspaper notice will be acceptable, and it will be published in the local newspaper. The draft newspaper notice has also been provided to the City of Albuquerque and Bernalillo County for review.*

If you have questions or require additional information, please contact me at 505-823-1000.

Sincerely,



Vincent Steiner, PE
Engineer
Water Resources

VS/le
Enclosures

cc: Doug Hughes, Floodplain Administrator, City of Albuquerque (w/encls.)
Tiequan Chen, Floodplain Administrator, Bernalillo County (w/encls.)
Kevin Patton, Pulte Group (w/encls.)
Alandren Etlantus, BHI (w/o encls.)
Yolanda Padilla Moyer, BHI (w/o encls.)