

CITY OF ALBUQUERQUE



May 28, 2015

Daniel Aguirre, P.E.
Wilson and Company, Inc.
4900 Lang Ave, NE
Albuquerque, NM 87109

**Re: Boca Negra Dam LOMR
Engineer's Stamp Date –no seal or stamp- (D10D000)**

Dear Mr. Aguirre,

Based upon the information provided in your submittal received 5-11-15, the following comments are to be addressed:

1. The LOMR is not stamped or sealed.
2. "Submitted by" should be AMAFCA, not the City of Albuquerque.
3. The annotated FIRMS are to be labeled "Annotated FIRM".
4. Why isn't the floodplain confined to the recently graded channel upstream of the 4-60" storm drains? Is this area shown in section 11? This has appeared to increase the floodplain on lots 1 through 5 Volcano Cliffs Unit 5.
5. The HGL on Sheet 29 of the SAD 228 plans shows the HGL below the soffit. The LOMR states the water surface elevation is over the road. How did this occur? The same storm was used in the LOMR and the SAD 228 plans. Provide calculations and assumptions for the capacity of the culverts under Scenic Blvd.
6. Why did you use the 24 hour storm rather than the 6-hour? FIRMS are based on the 6-hour storm.
7. The HEC-RAS section "Scenic Culverts" shows a dip in Scenic Blvd. I visited the site today, and could not see the dip; the street looks more straight-graded. Provide as-builts for Scenic Blvd.
8. Remove the flood zones for Trails ponds J and K.
9. In the Appendix 5 table of contents, the SAD 227 sheets are referenced as sheets 83 and 83A, and should be 63 and 63A.
10. Provide as-builts or field measurements of box culverts under San Idelfonso Rd and Tesuque Dr.
11. It appears there is a levee section on the north side of Mojave street. The flood zone should probably extend north of the channel bank in this area to avoid this being a levee.
12. Why have flows nearly tripled from "current" to "effective" for cross-sections C, B, A1 and A, which are downstream of the dam? One would think the dam would decrease flows.
13. Provide stage-discharge curves/tables for the dam for initial design and as-built condition and how were they calculated (orifice equation)?

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14. What sheet shows the as-built principal spillway riser details?
15. On what sheet of the AHYMO run can I find the HGL of the dam?
16. Proof (construction plan or core) of filled-cells is required for retaining walls to be counted as flood walls.
17. The Work Map and Annotated FIRM should reflect LOMR 09-06-2899P 3-25-10. The Flood Zone on Vista Vieja has been revised for 5 years.
18. The grade near section 13 appears to be 2 feet higher on the west side of the arroyo. Was this area surveyed?
19. The Maintenance Plan does not mention the channel downstream of the dam.
20. The City has concerns with the revised floodplain(s) encroaching further onto private property than the effective FIRM.
21. This was not a final review. The above listed items are to be satisfactorily addressed, before continuing the review.

If you have any questions, you can contact me at 924-3420.

PO Box 1293

Sincerely,

Albuquerque

Curtis Cherne, P.E., CFM
Local Floodplain Administrator
Principal Engineer, Stormwater Quality
Planning Dept.

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C: email