CITY OF ALBUQUERQUE

December 30, 2014

Ron Bohannan, P.E.
Tierra West, LLC
5571 Midway Park Pl NE
Albuquerque, NM 87109

Re: Whataburger, 111 Coors Boulevard NW
Grading Plan and Drainage Plan
Engineer's Stamp Date 12-2-14 (K10D001B)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 12-5-14, the above referenced report and plan cannot be approved for Building Permit approval until the following comments are addressed:

1. Identify the full extent of basins 4 and 5. Is the gas station to the north contributing flows? The basins on-site are defined by property lines instead of contour lines or spot elevations. Provide a basin map that includes the off-site basin and that contains sufficient information showing the basins defined by contour lines and spot elevations.
2. Is the two foot curb cut adequate for the off-site flows for Basin 5?
3. The First Flush is to be retained and discussed. Per the City Drainage ordinance, the 90th Percentile Storm Event, which is 44 inches, is to be managed. Reduce 0.44 inch by the 0.1 inch for the initial impervious abstraction in Table A-6 of Section 22 of the DPM. Multiply the remaining 0.34 inch by your impervious area. This is the portion to retain. Provide the amount that is necessary to be retained and how much is actually being retained. The Stormchamber could be utilized for retention if the invert out is raised to retain the First Flush. The north pond can also be used by raising the invert of the 10 inch hole in the water quality manhole. The landscaping on the west side can be utilized for retention by raising the inlet invert above the bottom of the pond.
4. How was the Stormchamber sizing determined? How many risers will be with this system? Is the only riser the inlet in the middle of the system? If more than one, where will they be located exactly? On the Stormchamber detail sheet, optional items are called out on the lower left cross-section detail. Will those options be utilized with this system?
5. For the water quality manhole are the inverts of the 24 inch RCP, 10 inch hole, and bottom of pond all at 91.93? If so, call out the inverts and show them that way. Show the top of the rack and the top of the retaining wall at the same elevation of 93.43 as they have been indicated. Is a water quality manhole really needed if a Stormchamber system being utilized? They seem redundant. Provide freeboard and a guardrail for the pond.
6. What elevations are the alarms at in the lift station? What type of pump is being utilized? What is the Total Dynamic Head? Where is the pump on the pump curve? Provide the design for the lift station. Is a 2 hour delay being maintained as with the original design of detention pond?

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7. rovide orifice calculations for 4 inch orifice in manhole 2.
8. Is the current lift station being removed? The proposed lift station seems very close to where the old one should have been.

Please contact me at 924-3994 if you have any questions.

Sincerely,

Amy L. D. Niese, P.E.
Senior Engineer, Hydrology
Planning Department

C: e-mail

PO Box 1293

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