CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Interim Director



July 31, 2018

Jeremy Shell Respec 5971 Jefferson St. NE Albuquerque, NM 87109

RE: Adagio Apartments

Tr A, Cantata at the Trails Unit 2

Conceptual Grading Plan Stamp Date: none (7/19)

Drainage Report Stamp Date: none (7/19)

Hydrology File: C09D014

Dear Mr. Shell:

PO Box 1293

Based on the submittal received on 7/19/19, the Conceptual Grading and Drainage Plan cannot be approved until the following corrections are made:

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- 1. Please provide an engineer's stamp with a signature and date on the plan and use the <u>current DTIS version</u> (11/2018) when resubmitting.
- NM 87103
- 2. Identify all existing drainage easements on the plan, as well as any proposed easements, vacations, and lot line adjustments.
- 3. Identify all drainage infrastructure as private vs. public.

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- 4. Include project benchmark and datum.
- 5. Provide a copy of the Grading and Drainage plan to AMAFCA; AMAFCA approval may be required.
- 6. Please provide a vicinity map showing the location of the site. Typically this is the Zone Atlas. This can be downloaded in pdf format from the City of Albuquerque's website.
- 7. A separate bound Drainage Report is recommended, due to the breadth of this project.
- 8. Provide one (or several large) central facility for Stormwater Quality volume (SWQV) retention; individual ponds for each apartment unit will not be accepted.
- 9. Please provide the SWQV calculations for each basin draining to each pond. The stormwater quality ponds need to be sized for the areas draining to them.

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- 10. Please show and label the pond(s) and include a label on each with the SWQV and elevation, the 100-year volume and elevation, the peak 100 year inflow and outflow, the spillway crest elevation, and the spillway flow depth.
- 11. The site must demonstrate adequate downstream capacity per § 14-5-2-12(G) of the Albuquerque Code of Ordinances. 10 cfs discharge to the storm drain is identified, but how will runoff be controlled?.... pond, orifice plate, detention in the drive aisles? The controlling feature needs to be identified and designed.
- 12. This site must also comply with the approved drainage master plan (Thompson, 2015) for the Trails. The proposed plan seems to be generally consistent, but this needs to be investigated and discussed.
- 13. Drainage conveyance for basins 2-4 is questionable. Will these basins actually make it to the drive aisles? If so how? Can you add low points or drain lines for the sidewalks, along with swales? You could also treat these areas as contiguous self-ponding areas, coupled with drainage covenants. This would also enable basin 1 to free discharge.

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- 14. Hydraulic calculations are missing, to include:
 - a. Provide street capacity analysis demonstrating that the 100-year HGL remains at/below top of curb.

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b. Provide inlet calculations, including 2x capacity (50% clogging factor) for inlets in a sump. For orifice calculations, the open area (or void space) for the new bike-friendly Albuquerque grate (Dwg 2220) is 3.72sf. Please ensure you orifice calculations are updated to reflect this. c. Provide hydraulic calculations for this proposed storm drain system, calculated along the

NM 87103

Energy Grade Line; include both the HGL and EGLs in the table. d. Pond routing as necessary.

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15. A waterblock, 0.87' high, per COA Paving Detail No. 2426, is required at the driveway entrance.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.

Senior Engineer, Planning Dept. **Development Review Services**





