From: Carrillo, Abiel X. on behalf of Abiel X. Carrillo
To: "Diane Hoelzer"
Subject: Glendesto Subdivision - B18D020 - Stamp Date 6-17-2016
Date: Tuesday, July 19, 2016 11:32:00 AM

Diane,

This email is being sent in lieu of a formal letter to help expedite initial submittals. A response to this email is not considered a formal re-submittal.

Based upon the information provided in your submittal received 6-17-2016, the above-referenced Grading and Drainage Plan and Report cannot be approved for Preliminary Plat or Grading Permit until the following comments are addressed/coordinated:

1. Conveying runoff flows along Glendale Ave appears to be acceptable as previously discussed. However there are issues with the conveyance into San Pedro:

    a. It does not seem feasible to continue the swale into San Pedro with a 90-degree turn; flow would be expected to travel at a high velocity at the end of Glendale.

    b. A swale does not seem to fit within the San Pedro Right of Way, without grading into the Sandia Pueblo property and relocating PNM poles. The extruded curb will not be an acceptable barrier, and it would be difficult to maintain.

2. The temporary road and the full roadway sections are proposed with a 1% cross-slope to the north and east, to convey flows to the north side of Glendale. The existing base course roadway is superelevated around the corners to offset the lack of a proper horizontal curve. The design of the road should maintain that superelevation towards the inside of the curve around the bends (and then it can be transitioned to direct drainage from the subdivision to the northside of Glendale Ave.)

3. Clarify the cross-slope/crown section of the Modesto section.

4. Show how the east end of the Glendale pavement transitions to the existing crown section.

5. Provide cut-off walls at the west end of the Glendale Section.

6. Clarify how flows are conveyed from Modesto into the vacated Modesto corridor, or if they are intended to turn north in a swale.

    a. We recommend that a variance is sought for the construction of the full standard curb roadway section to help address comments No. 3. An Estate curb section could accommodate a continuous swale.

After discussing the project with the City Engineer, Transportation Development and AMAFCA, the following options could be considered to resolve many of the comments above:

- Build a retention pond (as shown in the original layout by Isaacson and Arfman) to contain the 6-hour storm (difference between historic and proposed) for the subdivision with an outfall onto Glendale. Then the swale along Glendale and San Pedro can just be redefined with a smaller, more typical soft roadside swale.

- Build the 36" storm drain under San Pedro that is required per the Master Plan.

- Detain flows in the subdivision and release at a controlled rate onto Glendale Ave.

- This one seems harder, but If the elevation of the La Cueva channel allows, figure out a way to develop a penetration into the Channel where the existing rundown exists. At that point, the road easement and the AMAFCA easement appear to touch making it potentially feasible (from an easement aspect).

If you'd like to meet and discuss just let me know.

Abiel Carrillo, PE, CFM

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