# COA

# Mirehvaen Arroyo Improvements

COA Conference Room

## February 18, 2015

## 10:30 a.m. – 12:00 p.m.

Attendees: Curtis Cherne, COA

Rita Harmon, COA

Craig Hoover, BHI

Alandren Etlantus, BHI

Kevin Patton, Pulte

**Meeting Objective:** Discuss Mirehaven Arroyo Improvements Report and Plans

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| General Discussion There was a general discussion on drop structures and the details of the final design. The final design reflects the drop heights and locations based on the easement boundary, the grade needed in the arroyo and the adjacent subdivision grades outside the arroyo. A profile with the proposed grades, the previous design grades, and the existing grades was reviewed.  The hydraulics of the channel and the existing culvert crossing at Tierra Pintada were reviewed. The final design does not adversely impact the hydraulics at Tierra Pintada, the headwater upstream and the velocities through culvert are about the same.  The following COA comments on the report and plans were discussed:   * As-built elevations for the storm drains that have already been constructed should be used. * There has been evidence of scour near the storm drain outlets. The storm drains that come into the arroyos will be reviewed. * BHI will review the manning’s roughness value for shotcrete and revise if appropriate. * There is a concern of the aesthetic fill washing away if landscaping is not installed right away. Curtis would like to see if the 2-yr storm is contained within the inverse crown section of the arroyo, particularly in the areas of aesthetic fill. Pulte will be completing the landscape plan while the channel is in construction. The landscaping, which will help stabilize the areas of aesthetic fill, will likely go in in the fall after the channel construction is complete and before May 2016. * There are areas where the HGL comes close to the top of the channel shotcrete lining – this is okay. It has been agreed that the freeboard could be provided in the overbank, as shown in the sections. * BHI will review the waterline casing near to Tierra Pintada and make sure it extends beyond the shotcrete. * BHI will review the cross section of the channel and maintenance ramp at the downstream end near Tierra Pintada.   BHI will update and resubmit Addendum #2 to the DMP next week and send a set of plans along with it. The HEC-RAS profile at Tierra Pintada will be included along with full size copies of the exhibits.  It was discussed that it is important to get this channel constructed. The next DRC submittal will be for a signature session. Approval of Addendum #2 to the DMP is needed prior to that submittal. |
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