



August 31, 2018

Mr. Richard G. Borchardt
Urban Drainage and Flood Control District
240 West 26th Ave., Suite 156B
Denver, Colorado 80211

SUBJECT: Parker Pointe Response to Comments UD MEP ID: 106995

Dear Mr. Borchardt,

Below I have reproduced your comment letter on the above project and added responses in red.

1. The Kinney Creek and Fonder Draw Outfall Systems Planning (OSP) Report (2004) recommended stream improvements be made adjacent to this development. Determine if these improvements are needed at this time. I look forward to meeting and discussing Kiowa's recommendation as indicated in the Perception Design Group's comment response dated June 2, 2018. **Kiowa is still working on this. Please stand by.**
2. The development includes work in the floodplain. A local floodplain development permit is needed for this work. **Comment noted.**
3. Evaluate development's detention pond spillway to insure flows from Kinney Creek remain in the Creek during the 100-year recurrence interval. **The spillway is moved westerly, downstream, to place the elevation above the 100 year flood elevation.**
4. The Pipe Outfall to Kinney Creek should conform to Volume 2, Chapter 9, Section 3.0 of the UDFCD Criteria Manual. Hydraulic information included for outfall pipe shows super critical flow. Method used in drainage study requires a $Q/Dc^{1.5}$ of 6 or less; it appears that this outfall doesn't meet this criteria. No backup information was provided to establish tailwater depth for analysis. Include appropriate design of outfall protection and supporting calculation in the Drainage Study. **Upon review of Chapter 9, it was determined that a low tailwater basin was the appropriate structure. The design is presented in the drainage report for your review.**

Thank you for your review and comments. Please contact me if additional revisions or clarifications are required.

Professionally,

A handwritten signature in blue ink, appearing to read "J. Davidson", is written over the typed name and title.

Jerry W. Davidson, P.E.
For and on Behalf of
Perception Design Group, Inc.