

January 5, 2022

Charlie Pajares
Mile High Flood District
2480 West 26th Avenue, Suite 156-B
Denver, Colorado 80211

Re: Aurora Crossroads Flg #01 (1585884)
Martin/Martin, Inc. Project No.: 19.1522
Mile High Flood District Project No.: 108205

GENERAL COMMENTS AND RESPONSES

C1: We noticed that the proposed channel improvements limits are just upstream of station 4+00. What is the timeline for channel improvements downstream of these limits? Is the invert of the interim channel stable? Is additional riprap protection needed at the transition point?

R1: *Based on the geomorphologists initial assessment, the channel downstream of the subject property is stable in the interim condition. The reach of First Creek within E-470 Right-Of-Way will be impacted by the future E-470 roadway widening improvements.*

C2: Is additional riprap protection needed between the spillway riprap and the proposed low flow channel? What are the velocities and flow rates from the proposed regional detention pond to the north?

R2: *Riprap is now shown extending from the two storm outfalls to the First Creek bankfull section, which will provide armoring for the storm sewer outfalls and any infrequent emergency overtopping of the sub-regional detention facility.*

C3: Is additional riprap protection needed between the toe of the low tailwater basin and the proposed low flow channel? What are the velocities and flow rates from the storm sewer outfall to the east of the regional detention pond?

R3: *Riprap is now shown extending from the two storm outfalls to the First Creek bankfull section. Energy dissipation basins were designed as part of the site improvements, which will limit the velocities between the outfalls and the channel.*

Please do not hesitate to contact me with any questions.

Sincerely,



Ryan Byrne, PE, CFM, LEED AP
Associate