

MAINTENANCE ELIGIBILITY PROGRAM (MEP)

MHFD Referral Review Comments

For Internal MHFD Use Only.	
MEP ID:	106582
Submittal ID:	10006142
MEP Phase:	Referral

Date: May 7, 2021
To: Town of Parker
Via email
RE: MHFD Referral Review Comments

Project Name:	Compark Village South Belford Bridge
Location:	South of E-470 at Happy Canyon Creek
Drainageway:	Happy Canyon Creek

This letter is in response to the request for our comments concerning the referenced project. We have reviewed this proposal only as it relates to maintenance eligibility of major drainage features, in this case:

- 24" FES Outfall into Happy Canyon Creek

We have the following comments to offer:

- 1) With respect to the pipe outfall:
 - a. Please extend the profile to the invert of Happy Canyon Creek to better understand the outfall conditions.
 - b. Include the HGL on the profile and add a label to the profile that lists the Q, V, and Fr.
 - c. 24" FES shall include a 3' concrete cutoff wall. Please show it on the profile and include a detail in the plans. Please see Figure 9-29 of the Urban Storm Drainage Criteria Manual (USDCM) for an example.
 - d. Thank you for including the riprap calculations. Even though the pipe conditions warrants 9" riprap, please consider it to 12" to account for Happy Canyon Creek flood forces and install at a depth of 2xD50. Install soil riprap instead of ordinary riprap and provide a riprap detail in the plans.
- 2) Provide supporting calculations associated with the outfall protection and energy dissipation for the proposed outfall. Note that shear stresses from flow in receiving stream may dictate the riprap size for the outfall.

We appreciate the opportunity to review this proposal. Please feel free to contact me with any questions or concerns.

Sincerely,



Kurt Bauer, P.E., CFM
 Project Manager, Watershed Services



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Date: 5/7/21

Mile High Flood Control District (MHFD)
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Mile High Flood District
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