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## Grange Hall Creek MDP and FHAD FHAD Kickoff Meeting Minutes

Date: July 14<sup>th</sup>, 2016, 9:00 AM  
Location: UDFCD Building  
Distributions: Agenda, Alternatives Matrix, and Reach Overview Map

Attendees:

<b>NAME</b>	<b>ORGANIZATION</b>	<b>E-MAIL</b>
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### I. Purpose

The purpose of this meeting was to discuss preliminary alternatives for the MDP. Preliminary FHAD results were also discussed at select locations.

### II. Preliminary FHAD

Mr. Delagarza opened the meeting by describing RESPEC's preliminary FHAD submittal. Various buildings in the 100-year FHAD floodplain were discussed. It was decided that finished floor elevations should be surveyed for the Village of Yorkshire Apartment buildings in the 100-year floodplain of the South Tributary.

The Northglenn sanitary lift station at Irma Drive was discussed.

Ms. Acre stated that the birdcage in basin 354 tends collect debris after storm events. This debris causes the basin to drain slowly which prevents maintenance from removing the debris in a timely fashion. Ms. Acre suggested that a riser pipe offset from the birdcage may help to alleviate this problem. It was also stated that the birdcage currently has a trash rack that is buried under accumulated sediment and debris. It was noted that the GHC mainstem from the birdcage to Irma Drive has not previously been master planned.

Adams County's plans for the Valente Open Space were discussed. Ms. McDowell stated that all lakes in the open space will remain and that the county intends to build a network of soft surface trails in the area.

### **III. Alternatives**

Mr. Delagarza provided an overview of the alternatives being used in the MDP. Ms. Thomas stated that improvements to prevent/correct minor low flow channel erosion should be termed "low flow channel stabilization" to prevent possible confusion with check and drop structures.

All reaches and alternatives were discussed. Notable information on a reach by reach basis is described below.

#### ***Reach G1***

Mr. Delagarza stated that the primary goal for G1 was to prevent the overtopping of 104th Ave during the 100-year event. This would likely be accomplished by adding a spillway from the easternmost pond to the South Platte River. Ms. McDowell requested that the spillway avoid existing concrete paths in the area. It was decided that a spillway qualifies as a limited structural improvement.

#### ***Reach G2***

It was decided to combine reaches G1 and G2. Maintenance trail construction costs will be included for these reaches.

#### ***Reach G4***

Reach G4 will be combined with G5

#### ***Reach G7***

Bank and low flow channel stabilization will be reexamined and updated to reflect recent improvements in this location

#### ***Reach G8***

Ms. Acre noted that some channel work was performed in this area in 2000.

#### ***Reach G11***

A note will be added to the alternatives discussing the use of waste concrete/asphalt as fill in this reach. A new culvert with 100-year event capacity to replace the full length of the existing Marion St culvert will be included in the text. The full length culvert will be described for information and costs purposes only and will not be an alternative.

#### ***Reach G12***

It was noted that graffiti in the bubbler is older and it appears that people have not been entering the culverts recently. A full replacement for the Grant drive culvert will be included in the text in a similar fashion to the Marion St culvert.

### ***Reach G13***

Replacement of the gabions on the east side of I-15 will be recommended in the text. Surface flows from the I-25 overflow to Grant Drive in the vicinity of E 106<sup>th</sup> Place will be mapped in the FHAD using 2D hydraulic modeling.

### ***Reach R1***

Alternatives from R1 will be based on flows from Olsson Engineering plans to build a parking garage at the Riverdale Trib and Colorado Blvd crossing

### ***Reach O1***

It was noted that there may be a LOMR at the canal crossing.

### ***Reach NE1***

It was decided that an engineered channel is the preferable option in this reach. Mr. Delagarza asked if a landscape architect should be contacted to assist with the design of improvements in this reach. Ms. Thomas stated that a landscape architect is not needed at this point. A note will be added to the text to maintain a fore bay for sediment purposes in this reach.

### ***Reach NE2***

Ms. Thomas stated that an engineered channel would be inappropriate in this reach.

### ***Reach N2***

It was decided that Reach N2 would be added to the study. The reach will extend from the NMRL tracks to Irma Drive. Ms. Acre requested that an engineered channel not be included in the alternatives for N2. A new pipe with 100-year capacity will be included in the alternatives.

### ***Reach S1***

Ms. Acre requested that the alternatives include removing the failed weir.

### ***Reach S2***

Apartment buildings in the 100-year FHAD floodplain will have finished floor elevations surveyed.

### ***Reach S3***

A 5-year capacity crossing between Lambertson Lakes # 1 & 2 will be added to the text.

### ***Reach S4***

It was decided that the impacts to peak flows from conveyance increases at Grant Dr and Washington St will need to be explored.

## **Reach S5**

Reach S5 will be created and will extend from the Grant St detention basin to Huron St. Ms. Acre asked that alternatives include increase the size of the culvert near Northglenn High School and purchasing the house at 10221 Melody Dr.

It was decided that the FHAD channel alignment in this area should follow the surface flow.

It was decided that constructions costs for drop/check structures on private land will be included in cost estimates but land costs for said structures will not be included.

## **IV. Additional New Alternative Items**

- Riser pipe for birdcage
- Concrete maintenance path accessing birdcage
- Move ambulance building to higher location
- Modify canal crossing on the 104<sup>th</sup> Tributary so that all flow travels through the flume

## **V. Schedule**

The alternatives report and recommended plan will be submitted in late August. The next progress meeting will be after the CASFM conference.

## **VI. Action Items**

- RESPEC will base the hydraulics and FHAD delineation for RTD detention basins using proposed contours.
- Reach extents on the Alternative Screening Matrix will be updated for all reaches.
- RESPEC will map surface flows from the I-25 overflow to Grant Drive in the vicinity of E 106th Place in the FHAD using 2D hydraulic modeling
- RESPEC see if a LOMR was submitted during the construction of the canal crossing on the 104<sup>th</sup> Tributary.
- Thornton will provide Olsson plans for channel modifications at the Riverdale Trib and Colorado Blvd to RESPEC

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*These minutes are true and accurate to the best of my knowledge based on notes and recollection. Should any attending party have additions or corrections to these minutes, please forward them to David Delagarza of RESPEC Consulting within one week of the date of receipt. The absence of a response will be considered concurrence to the previous information and these minutes will be considered matter of fact.*