



PINEY CREEK MAJOR DRAINAGEWAY PLAN

Progress Meeting Minutes

February 9, 2012

Attendees:

- Shea Thomas, UDFCD
- Monica Bortolini, SEMSWA
- Hoanh Tran, City of Aurora
- Vern Adam, City of Aurora Water Department
- Curtis Bish, Aurora Parks, Recreation and Open Space Department
- Lori Tagawa, Aurora Parks, Recreation and Open Space Department
- Brad Robenstein, Douglas County
- Stacey Thompson, Arapahoe County
- Lynn Cornell, Arapahoe Park and Recreation District
- Doug Rockne, Arapahoe Park and Recreation District
- Bill Ruzzo, Cherry Creek Basin Water Quality Authority
- Alan Leak, WRC Engineering, Inc.
- Nate Torrey, WRC Engineering, Inc.

A sign-in sheet and meeting agenda were distributed to attendees prior to the start of the meeting.

Draft Conceptual Design Report

Comments received on January 19, 2012 for the Draft Conceptual Design Report, dated December 2011.

Unresolved Issues from Draft Conceptual Design Report

- Reach 1 – The draft Conceptual Design Plan includes acquisition of flood prone properties in the left overbank near the confluence with Cherry Creek (no structures impacted). The property is platted. The shallow area of flooding that inundates the parcels is eliminated with the four planned regional detention ponds that are part of the Conceptual Design Plan. Therefore, property acquisition is not required and will be removed from the plan.
- Reach 6 – Cost estimates in the Conceptual Design Plan include the cost to purchase easements where they do not currently exist. SEMSWA would like to remove this from the cost estimates. Easements were also included in the cost estimates for Aurora and Douglas County. Douglas County would like this removed from the cost estimates as well. The City of Aurora typically would like to see easements in the cost estimate. However, new easements per this Conceptual Design Plan are currently only shown in undeveloped areas of Antelope Creek. When development occurs in these areas, the floodplain will have to be dedicated to the City, so additional easement costs will not be required.
- Reach 8 – The proposed sediment removal project in Aurora, located downstream of Gartrell Road through Saddle Rock golf course, is anticipated to begin in Fall 2012. The project is currently in the process of obtaining the required U.S. Army Corps of Engineers permits.

CONSULTING ENGINEERS

The Conceptual Design Plan includes overbank grading to eliminate an area of shallow flooding from occurring. The shallow flooding inundates two multi-family residential structures. The planned sediment removal project is intended to increase the channel conveyance capacity and lower the floodplain in this area, which would eliminate the shallow flooding that inundates the residential structures. However, details of the planned project were not available at the time of this Conceptual Design Report and could not be included. A note will be added to the report stating that the planned sediment removal project may eliminate the need for the proposed overbank grading.

- Planned Regional Detention Ponds – There are four planned regional detention ponds in the Conceptual Design Plan. The planned ponds are part of proposed developments in the City of Aurora, all of which have been approved by Master or Final Drainage Reports. The Conceptual Design Plan modeled these ponds using the approved rating curves from the development plans and the baseline hydrology developed for the Conceptual Design Plan. The baseline hydrology from the Conceptual Design Plan is different than that from the Final Drainage Reports for the developments; therefore the Qin/Qout/V100 will be different. Generally, the Qin/Qout of the four planned ponds is lower than the development plans. Various options for how to assure the Conceptual Design Plan flows will be met were discussed. If the ponds are constructed as designed and approved in the City of Aurora’s Master Drainage Reports, with the same rating curve, then the Conceptual Design out flows will be met. A note will be added to the Conceptual Design Report to clarify this.

There is an approved Final Drainage Report for the Kings Point North development that was based on the old City of Aurora criteria which required WQCV. Several on-site detention ponds are shown on the Kings Point North plan that include WQCV. The new City criteria requires full-spectrum detention which includes EURV rather than WQCV. Mr. Tran stated that when the development takes place, the detention ponds will have to be redesigned based on the new criteria and full-spectrum detention. The language in the Conceptual Design Report will be revised to clarify this.

- Conceptual Design Profile – In Reach 6, new drop structures downstream of Caley are shown below grade by 3 feet. This is because the existing channel grade is based on 2008 mapping and the drop structure elevations are based on an as-built survey dated August 2011. Based upon conversations with UDFCD and SEMSWA, the channel has eroded and lowered 3 feet in this area from 2008 to 2011. The Conceptual Design Profile will be revised so that the existing grade is shown based on the as-built survey of the drop structures. The proposed channel grade will be modified to better match the existing drop structure grades while addressing stabilization of the eroded channel sideslopes.

- General

Low flow channel protection should be Type L soil riprap and be toed in 5 feet for all jurisdictions.

Existing detention ponds in the baseline hydrologic analysis that do not provide water quality will be listed in the Conceptual Design Report. A cost estimate will also be provided for those ponds to retrofit with WQCV.

Schedule

The Conceptual Design Report to be resubmitted within two weeks.

The FHAD was accepted by the UDFCD Board of Directors at the December meeting.

Meeting was adjourned at 3:30 P.M.

Minutes Developed By:



Nathan R. Torrey