



**URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
BOARD OF DIRECTORS**

April 21, 2011

MINUTES

Members Present:

Susan Beckman	Commissioner, Arapahoe County
Doug Clark	Mayor, Littleton
Joyce Downing	Mayor, City of Northglenn
Bob Dyer	Mayor Pro Tem, City of Arvada
Mack Goodman	Mayor Pro Tem, City of Thornton
Faye Griffin	Commissioner, Jefferson County
Bob Hoffmaster	Engineer
Marcia Johnson	Council Member, City and County of Denver
Peggy Lehmann	Council Member, City and County of Denver
Paul Lopez	Council Member, City and County of Denver
Nancy McNally	Mayor, City of Westminster
Bonnie McNulty	Mayor, Edgewater
Bob Murphy	Mayor, City of Lakewood
Alice Nichol	Commissioner, Adams County
Renie Peterson	Mayor Pro Tem, City of Aurora
Jill Repella	Commissioner, Douglas County
Dave Sellards	Engineer
Walt Spader	Mayor Pro Tem, City and County of Broomfield
Vorry Moon	Mayor Pro Tem, City of Centennial
Ken Wilson	Deputy Mayor, City of Boulder

Members Absent:

Cindy Domenico	Commissioner, Boulder County
Andrew Muckle	Mayor, Town of Superior
Guillermo (Bill) Vidal	Deputy Mayor, City and County of Denver

UDFCD Staff Present:

Paul Hindman	Executive Director
Ed Krisor	Legal Counsel
Dave Bennetts	Manager, Design, Construction, and Maintenance
Bill DeGroot	Manager, Floodplain Management
Ken MacKenzie	Manager, Master Planning
Kevin Stewart	Manager, Information Services and Flood Warning
Laura Kroeger	Assistant Manager, Design, Construction, and Maintenance
Richard Borchardt	Senior Project Engineer, Design, Construction, and Maintenance
Barbara Chongtoua	Senior Project Engineer, Design, Construction, and Maintenance
David Mallory	Senior Project Engineer, Floodplain Management
Shea Thomas	Senior Project Engineer, Master Planning
Holly Piza	Senior Project Engineer, Master Planning
Terri Fead	Project Engineer, Floodplain Management
David Skuodas	Project Engineer, Design, Construction, and Maintenance
Frank Dobbins	Director of Finance and Accounting
Darla Reeves	Accountant
Sandra Gonzalez	Administrative Services Manager
Margaret Corkery	Senior Administrative Assistant
Geanesia Hinton	Senior Administrative Assistant

Others Present

Jim Kaiser, City of Thornton
Lesley Thomas, City/County of Denver
Mayor Ed Tauer, City of Aurora
Wendy Mitchell, City of Aurora

1. **Call to Order and Pledge of Allegiance – 1:00 p.m.**
Chairperson Beckman called the meeting to order at 1:00 p.m.
2. **Roll Call - Determination of Quorum**
Roll was called and a quorum was declared present.
3. **Introductions**
 - a. **Visitors/Guests**
Paul Hindman recognized Mayor Tauer and Wendy Mitchell from the City of Aurora who would be making a presentation later during the meeting.
 - b. **Awards/Recognition**
Paul Hindman noted that the accounting staff once again received the Certificate of Achievement for Excellence in Financial Reporting for the District's Comprehensive Annual Financial Report for Fiscal Year Ended December 31, 2009. Frank Dobbins & Darla Reeves were presented the award and commended for their excellent work.

The Board adopted "Good Neighbor Policy" was featured as the cover article in the American State Floodplain Manager's Association newsletter.
4. **Approval of March 17, 2011 Annual Meeting Minutes**
The minutes were approved as submitted.
5. **Consent Agenda**
 - a. **Review of Cash Disbursements**
Cash Disbursement list dated March and April 2011 were distributed to the Board for review.

There being no further comments or questions, it was the consensus of the Board to include approval of the Cash Disbursements on the Consent Agenda.
 - b. **Authorization to Upgrade UDFCD-Supported Engineering Design Software (Resolution No. 22, Series of 2011)**
Since 1974, the District has been developing, maintaining, improving, and making available several engineering design software programs.
These programs include:
 - BMP-REALCOST
 - Colorado Urban Hydrograph Procedure (CUHP)
 - UD-BMP
 - UD-Channel
 - UD-Culvert
 - UD-Detention
 - UD-Inlet
 - UD-Raincurve
 - UD-Rainzone
 - UD-Rational
 - UD-Sewer
These software programs are made available on the District website at no cost. The intent of this effort is to promote the appropriate and responsible use of District promulgated drainage and flood control criteria in engineering designs for new development and redevelopment within the District.

The software is primarily developed and maintained by the District staff with the help of student interns. There are, however, some needed changes and enhancements that are beyond our in-house capabilities. This resolution will authorize us to contract with a software developer to bridge that gap and make needed improvements to our software.

The total costs for 2011 are projected to be \$50,000 and the Board is being asked to authorize the expenditure of the District's share not to exceed \$50,000.

There being no further comments or questions, it was the consensus of the Board to place Resolution No. 22 on the Consent Agenda.

c. Authorization for a Planning Study Update of the Globeville-Utah Junction Watershed (Resolution No. 23, Series of 2011)

The City and County of Denver and Adams County have asked the District to participate in an update of the Globeville-Utah Junction Watershed Outfall Systems Plan. The watershed was originally studied beginning in 1997, culminating in a Preliminary Design Report in February of 2000 by Kiowa Engineering Corporation. The sponsors of the study were Adams County, the City and County of Denver and the District.

In the eleven years since the previous study was completed, several issues have surfaced causing the need to re-examine the study area. Some of these issues include:

- Drainage conditions brought to light by the FasTracks Gold Line project
- The need for a major storm outfall in the eastern part of the basin
- Possibilities for water quality at multiple locations
- Denver Water abandoning the Farmers & Gardeners Ditch
- Urbanized flooding discovered as a result of Denver's Master Plan

This study was not in the Work Plan for 2011 previously accepted by the Board. The Four Square Mile Outfall Systems Plan study that was slated for 2011 has been pulled from the Work Plan at the request of Aurora Water. Therefore, the \$100,000 the District was reserving for that study is now available for the Globeville-Utah Junction master plan update.

The total master planning costs are projected to be \$230,000 with the local sponsors contributing \$130,000 and the Board is being asked to authorize the expenditure of the District's share not to exceed \$100,000 plus interest earned in the project's trust and agency account.

There being no further comments or questions, it was the consensus of the Board to place Resolution No.23 on the Consent Agenda.

d. Authorization for a Planning Study of Easterly Creek (Resolution No. 24, Series of 2011)

The City of Aurora has asked the District to participate in a planning study leading to an outfall systems plan for the Easterly Creek watershed. The Easterly Creek watershed generally covers an area from Alameda Avenue to 26th Avenue and from Dayton Street to Peoria Street. Easterly Creek is a right bank tributary to Westerly Creek.

Easterly Creek is currently conveyed through the watershed underground in a conduit following the Del Mar Parkway, which is not sized for a 100-year storm. Storm water generally flows along the surface in gutters until it is collected by inlets. Due to the relatively flat topography, there are many areas where the minor storm flow path is different from the major storm flow path, causing a transbasin diversion to Westerly Creek. In addition to localized flooding issues, most of the watershed was developed before water quality treatment was a concern.

The local sponsors need to have a current and relevant master plan in place so that they can plan capital improvements such as storm sewers, improved outfalls and water quality treatment. The total master planning costs are projected to be \$150,000 with the local sponsors contributing \$75,000 and the Board is being asked to authorize the expenditure of the District's share not to exceed \$75,000 plus interest earned in the project's trust and agency account.

There being no further comments or questions, it was the consensus of the Board to place Resolution No. 24 on the Consent Agenda.

e. Additional Authorization to Participate in Drainage and Flood Control Improvements for North Outfall at Midland Street in the City of Brighton, Adams County (Resolution No. 25, Series of 2011)

This is a joint project with the City of Brighton. ICON Engineering, Inc. designed the project under contract with the District. The drainage elements of the project include installation of a new storm sewer up to 84 inches in diameter and excavation of a new outfall channel to the South Platte River. Easement and right-of-way acquisition is included in the project costs.

The final design is now complete and the District and the City of Brighton desire to construct the improvements which will be managed by the District. Phase I of construction is currently underway, and the City desires to continue funding the project so Phase II can begin construction as well.

The District and the City of Brighton have identified \$2,535,000 in total project costs with the District's participation being \$725,000. The previous authorizations, Resolution No. 4, Series of 2006, Resolution No. 25 Series of 2008, and Resolution 44 Series of 2010 totaled \$2,285,000 to fund design and to partially fund acquisition of right-of-way and construction.

This resolution authorizes an additional \$125,000 of District funds from the Special Revenue Fund - Construction to at least be matched by the City of Brighton for the design, acquisition of right-of-way, and construction of the drainage elements of the project.

There being no further comments or questions, it was the consensus of the Board to place Resolution No. 25 on the Consent Agenda.

f. Additional Authorization to Participate in Drainage and Flood Control Improvements on East Toll Gate Creek at Hampden Avenue, City of Aurora, Arapahoe County (Resolution No. 26, Series of 2011)

This is a joint project with the City of Aurora. Muller Engineering has been selected for the design of the project and will be under contract with the District. The drainage elements of the project include construction of a water quality pond and drop structure. The City of Aurora already holds the necessary easements and right-of-way where the project will be carried out.

The final design is currently underway. The District and the City of Aurora desire to construct the improvements in the winter of 2011, which will be managed by the District. The District and the City of Aurora have identified \$2,275,000 in total project costs with the District's participation being \$905,000. The previous authorizations, Resolution No. 104, Series of 2001, Resolution No. 58, Series of 2007, Resolution No. 5, and Series 2011 totaled \$555,000 to fund design and partially fund construction.

This resolution authorizes an additional \$350,000 of District funds from the Special Revenue Fund - Construction to at least be matched by the City of Aurora for the construction of the drainage elements of the project.

There being no further comments or questions, it was the consensus of the Board to place Resolution No. 26 on the Consent Agenda.

g. Additional Authorization to Participate in Drainage and Flood Control Improvements on Piney Creek at Caley, City of Centennial, Arapahoe County (Resolution No. 27, Series of 2011)

This is a joint project with the Southeast Metro Stormwater Authority (SEMSWA). The first phase of Caley Bridge and associated channel improvements immediately upstream and downstream were completed in September 2010. The second phase of the project picks up where the first phase leaves off by continuing improvements upstream of Caley. The Master Drainage Plan is currently being updated and will guide these improvements.

The consultant for the second phase will be selected by the District and SEMSWA and will be under contract with the District. The drainage elements of the project include installation of bank protection, grade control, detention pond, and maintenance path and formalizing a horse crossing within the reach. Easement and right-of-way acquisition will be part of the project. In the first phase, easements were purchased for the Caley Bridge, but were donated for the channel improvements. Donations of easements for the channel improvements will be sought for the second phase of the project.

The District and SEMSWA have identified \$4,108,000 in total project costs with the District's participation being \$1,650,000. The previous authorizations, Resolution No. 40, Series of 2006, Resolution No. 57, Series of 2007, Resolution No. 69, Series of 2007; Resolution No. 7, Series 2008; Resolution No. 11, Series of 2009; Resolution No. 33, Series of 2010; and Resolution No. 66, Series 2010; totaled \$1,450,000 in District's funds which included design, property acquisition, and construction of improvements of the first phase and design and partial construction funding for the second phase.

This resolution authorizes an additional \$200,000 of District funds from the Special Revenue Fund - Construction to at least be matched by SEMSWA for the design of the drainage elements of the project. Construction of Phase 2 is anticipated in 2012.

There being no further comments or questions, it was the consensus of the Board to place Resolution No. 27 on the Consent Agenda.

h. Additional Authorization to Participate in Drainage and Flood Control Improvements on Drainageway G Upstream of Highway 287, City of Lafayette, Boulder County (Resolution No. 28, Series of 2011)

This is a joint project with the City of Lafayette. Ayres Associates designed the project under contract with the District. The drainage elements of the project include installation of two drop structures, two low flow bridges to provide maintenance and pedestrian access, and completion of a trail connection. The City of Lafayette already holds the necessary easements and right-of-way where the project will be carried out.

The final design is now complete and the District and the City of Lafayette desire to fund and construct the improvements which will be managed by the District.

The District and the City of Lafayette have identified \$500,000 in total project costs with the District's participation being \$250,000. The previous authorizations, Resolution No. 18 Series of 2009 and Resolution No. 42 Series of 2010, totaled \$350,000 to fund design and to partially fund construction.

This resolution authorizes an additional \$75,000 of District funds from the Special Revenue Fund - Construction to at least be matched by the City of Lafayette for the design, acquisition of right-of-way, and construction of the drainage elements of the project.

There being no further comments or questions, it was the consensus of the Board to place Resolution No. 28 on the Consent Agenda.

i. Authorization to Participate in Drainage and Flood Control Improvements on Drainageway A-2, City of Louisville, Boulder County (Resolution No. 29, Series of 2011)

This is a joint project with the City of Louisville. The City of Louisville desires to design, acquire right-of-way, and construct improvements along Drainageway A-2 in accordance with the "Lafayette-Louisville Boundary Outfall System Plan Conceptual Design Report" dated January 2011. The project includes improvements to add a 100-year capacity storm sewer system to alleviate flooding west of the railroad tracks. Easement and right-of-way acquisition will be included in the project costs.

The District will be administering the design once a consulting engineering firm is selected. The District and the City of Louisville have identified \$300,000 in initial project costs for the design, right-of-way acquisition, and partial funding of construction

with the District's participation being \$150,000 in 2011 funds. Construction is anticipated in 2012. This resolution authorizes \$150,000 of District funds from the Special Revenue Fund - Construction to at least be matched by the City of Louisville for the design, acquisition of right-of-way, and construction of the drainage elements of the project.

There being no further comments or questions, it was the consensus of the Board to place Resolution No. 29 on the Consent Agenda.

j Additional Authorization to Participate in Drainage and Flood Control Improvements on the 40th Street Outfall in the City and County of Denver (Resolution No. 30, Series of 2011)

This is a joint project with the City and County of Denver. WHPacific is currently under contract with the District to design, acquire right-of-way, and construct improvements along the 40th Street Outfall. The project includes more than doubling the existing outfall capacity by adding a substantially larger box culvert. This work will be closely coordinated with FasTracks design through the area.

Easement and right-of-way acquisition will be included in the project costs. The initial authorization for this project in 2009 was intended to get the design underway. This additional authorization will initiate funding for construction which will be managed by the City and County of Denver.

The District and the City and County of Denver have identified \$28,000,000 in total project costs with the District's current participation being \$7,085,000. The previous authorization, Resolution No. 9, Series of 2010 totaled \$4,245,000 to fund design and to partially fund acquisition of right-of-way and construction.

This resolution authorizes an additional \$2,840,000 of District funds from the Special Revenue Fund - Construction to at least be matched by the City and County of Denver for construction of the drainage elements of the project.

There being no further comments or questions, it was the consensus of the Board to place Resolution No. 30 on the Consent Agenda.

k. Authorization to Participate in Drainage and Flood Control Improvements on Cherry Creek from Monaco Parkway to Iliff Boulevard, City and County of Denver (Resolution No. 31, Series of 2011)

This is a joint project with the City and County of Denver. The project will include bank stabilization, drop structure construction and access trail improvements. Consultant selection is anticipated to begin this spring.

Easement and right-of-way acquisition will be included in the project costs. The initial authorization for this project is intended to get the design underway. Additional authorizations are anticipated for construction and easement and right-of-way acquisition. The District and the City and County of Denver have identified \$100,000 in initial project costs with the District's participation being \$50,000.

This resolution authorizes \$50,000 of District funds from the Special Revenue Fund - Construction to at least be matched by the City and County of Denver for the design and construction of the drainage elements of the project.

There being no further comments or questions, it was the consensus of the Board to place Resolution No. 31 on the Consent Agenda.

l. Additional Authorization to Participate in Drainage and Flood Control Improvements on Marcy Gulch, Downstream of Town Center Drive, Douglas County (Resolution No. 32, Series of 2011)

This is a joint project with Douglas County and Highlands Ranch Metro District.

Muller Engineering Company has completed Phase I and Phase II design and Naranjo Civil Constructors has started Phase II work. The drainage elements of Phase II include sculpted drop structures, rock cascade drop structures, channel re-grading and bank protection. The District, Douglas County and Highlands Ranch Metro District now desire to add funding to the project for the completion of construction and landscaping. Highlands Ranch Metro District will own the property where the improvements are being done.

The District, Douglas County and Highlands Ranch Metro District have identified \$1,975,000 in total project costs with the District's participation being \$960,000. The previous authorizations, Resolution No. 67 and 81, Series of 2010 totaled \$905,000 to fund design and to partially fund construction. This resolution authorizes an additional \$55,000 of District funds from the Special Revenue Fund - Construction to at least be matched by Douglas County and Highlands Ranch Metro District for the design and construction of the drainage elements of the project.

There being no further comments or questions, it was the consensus of the Board to place Resolution No. 32 on the Consent Agenda.

6. Vote on Approval of the Consent Agenda

It was the consensus of the Board that Resolutions No. 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, and 32, Series of 2011, and Cash Disbursements for March and April 2011 be placed on the Consent Agenda. It was Moved and Seconded by the Board to adopt the Consent Agenda. Upon a roll call vote the motion was passed unanimously.

7. Reports/Discussion

a. Executive Director's Report

The Executive Director's Monthly Report to the Board was distributed to the Board Members. Mr. Hindman gave a brief summary of his report highlighting the District's remodeling project and meetings with EPA regarding their NPDES guidance memo.

b. Urban Renewal (This matter was taken up prior to consideration of the Consent Agenda.)

Chairperson Beckman introduced Mayor Ed Tauer, City of Aurora and Wendy Mitchell, City of Aurora Economic Development who presented a briefing on the recent changes to the Colorado law in regard to urban renewal authorities. In addition, Mayor Tauer asked for an indication but not a commitment by the District of its support in regard to a proposed project in Aurora. Such support would entail the District consenting to the formation of an urban renewal authority by Aurora and the District's agreement, by such consent, to not collect the increased property taxes from that project. Mayor Tauer offered to provide sample letters of responses from other entities that have indicated they are pre-disposed to the approving the project.

Chairperson Beckman stated that the District would mail a copy of the legislation to Board members for their review. She also directed the Executive Director, Paul Hindman, to prepare a draft resolution setting District policy for the Board to review at the next meeting. The policy would be developed so it would be applicable to all such project requests and not to just that of Aurora. In developing the policy, the Board will consider the potential conflict that might occur when multiple jurisdictions within the District may be competing for one particular project.

8. Other Business

Chairperson Beckman advised the Board of a letter she wrote to the Mayor Osborne of the City of Boulder and Commissioner Pearlman of Boulder County regarding the Board's concern about possible flooding that would come down Fourmile Creek, Fourmile Canyon Creek and Boulder Creek as the result of the Fourmile Canyon Creek Fire last fall.

9. Announcements

Chairperson Beckman reminded the Board that the next scheduled meeting would be held on Thursday, May 19, 2011.

10. Adjournment

Chairperson Beckman adjourned the meeting at 2:18 p.m.