

BOARD OF DIRECTORS MEETING

Date: Tuesday, November 22, 2016

Time: 1:00 pm

Catered Lunch - 12:15 pm How the District Works - 12:45 - 1:00 pm

- Call to Order and Pledge of Allegiance 1:00 pm
- Introductions
 - Visitors/Guests/Staff а
 - b. Awards/Recognitions
 - Government Finance Officers Association (GFOA) Excellence in Financial Achievement
- Roll Call Determination of Quorum
- Approval of October 13, 2016 Meeting Minutes (If there are no corrections "Minutes stand approved", or 4. with corrections "Minutes stand approved as corrected")
- **Public Hearing**
 - Presentation of Proposed 2016 2020 Five-Year Capital Improvement Plan
- Executive Session Personnel Matter Employment of Executive Director [24-6-402(4)(f)(I) and (3.5) C.R.S.1
 - a. **Employment of New Executive Director** (Resolution No. 66, Series of 2016)
- Consent Agenda (Consent items are considered routine and will be approved by one motion unless a request is made by a Board Member for removal for further discussion or explanation.)
 - Review of Cash Disbursements a.
 - Adoption of 2017 Work Plan b. (Resolution No. 52, Series of 2016)
 - Adoption of Five-Year Capital Improvement Plan (CIP) 2016 2020 c. (Resolution No. 53, Series of 2016)
 - d. Authorization of 2017 Maintenance Work Plan Expenditures (Resolution No. 54, Series of 2016)
 - Authorization of 2017 CIP and Maintenance Work Plan for South Platte River e. (Resolution No. 55, Series of 2016)
 - Authorization to Participate in Drainage and Flood Control Improvements f. on McIntyre Gulch at Holland Street, City of Lakewood, Jefferson County (Resolution No. 56, Series of 2016)
 - Additional Authorization to Participate in Drainage and Flood Control Improvements g. on Happy Canyon Creek at Interstate 25, Douglas County (Resolution No. 57, Series of 2016)
 - h. Authorization to Participate in Drainage and Flood Control Improvements on Coal Creek from McCaslin Boulevard to Highway 36, Town of Superior, Boulder County (Resolution No. 58, Series of 2016)
 - i. Authorization to Enter Into Agreement with the U.S. Geological Survey (USGS) for Rainfall/Runoff Investigation (Resolution No. 59, Series of 2016)
 - Authorization to Assist Communities with NPDES MS4 Permit Compliance to Develop j. Engineering Criteria and Software, and to Conduct Stormwater Management Research (Resolution No. 60, Series of 2016)

- k. Authorization for a Planning Study of SJCD (N), SJCD (S) North Tributary and DFA 6100.5 (Resolution No. 61, Series of 2016)
- I. Authorization for a Planning Study of Basin 4100 and DFA 0056 (Resolution No. 62, Series of 2016)
- m. Authorization for a Planning Study for Goose Creek and Twomile Canyon Creek (Resolution No. 63, Series of 2016)
- n. Authorization for a Planning Study of Sand Creek Downstream of Colfax Avenue (Resolution No. 64, Series of 2016)
- o. Authorization of Funds to Complete Flood Hazard Area Delineation Studies, Letter of Map Change Studies, Risk MAP Studies, and Other Floodplain Management Activities (Resolution No. 65, Series of 2016)
- 8. Vote on Approval of the Consent Agenda (Motion and roll call vote required)

9. Other Business

- a. Call for Volunteers: Nominating Committee for 2017 Officers
- b. Call for Volunteers: 2017 Legislative Committee

10. Announcements

a. Next Regularly Scheduled Meeting: Thursday, December 15, 2016

11. Adjournment



URBAN DRAINAGE AND FLOOD CONTROL DISTRICT BOARD OF DIRECTORS

October 13, 2016

MINUTES

Members Present:

Herb Atchison, Mayor, City of Westminster Bruce Beckman, Mayor, City of Littleton Joyce Downing, Mayor, City of Northglenn Bob Fifer, Mayor Pro Tem, City of Arvada Deb Gardner, Commissioner, Boulder County

Mark Hunter, Engineer

Joyce Jay, Mayor, City of Wheat Ridge

Paul Kashmann, Council Member, City/County of Denver Paul López, Council Member, City/County of Denver

Adam Paul, Mayor, City of Lakewood

Renie Peterson, Mayor Pro Tem, City of Aurora

Dave Sellards, Engineer

Greg Stokes, Mayor Pro Tem, City/County of Broomfield

Libby Szabo, Commissioner, Jefferson County

Charles (Chaz) Tedesco, Commissioner, Adams County

C.J. Whelan, Mayor Pro Tem, City of Centennial

Heidi Williams, Mayor, City of Thornton

Mary Young, Mayor Pro Tem, City of Boulder

Members Absent:

Stacie Gilmore, Council Member, City/County of Denver Don Mares, Deputy Mayor, City/County of Denver Jill Repella, Commissioner, Douglas County Nancy Sharpe, Commissioner, Arapahoe County

UDFCD Staff Present:

Ed Krisor Legal Counsel

Julia Bailey Project Engineer, Information Services and Flood Warning
Dave Bennetts Program Manager, Design, Construction, and Maintenance
Richard Borchardt Project Manager, Design, Construction, and Maintenance
Barbara Chongtoua Project Manager, Design, Construction, and Maintenance

Amelia Deleon Human Resources Manager

Terri Fead Project Manager, Floodplain Management

Bryan Kohlenberg Project Manager, Design, Construction, and Maintenance

Laura Kroeger Assistant Program Manager, Design, Construction, and Maintenance

Ken MacKenzie Program Manager, Master Planning

David Mallory Program Manager, Floodplain Management

Steve Materkowski Senior Constructions Manager

Teresa Patterson Project Manager, Floodplain Management

John Pflaum Project Engineer

Holly Piza Project Manager, Master Planning
Mike Sarmento Senior Construction Manager
Terri Schafer Manager, Finance and Accounting
Derrick Schauer Information Services Technician

David Skuodas Project Manager, Design, Construction, and Maintenance

Jason Stawski Construction Manager

Kevin Stewart Program Manager, Information Services and Flood Warning

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Shea Thomas Project Manager, Master Planning Joe Williams Senior Construction Manager

Others Present:

None.

1. Call to Order and Pledge of Allegiance – 12:30 p.m.

Mayor Downing called the meeting to order at 12:32 p.m.

2. Introductions

a. Visitors/Guests/Staff

None.

3. Roll Call – Determination of Ouorum

Roll was called and a quorum was declared present.

4. Board Approval of September 15, 2016 Meeting Minutes (If there are no corrections "Minutes stand approved", or with corrections "Minutes stand approved as corrected")

Mayor Downing asked if there were any corrections to the September 15, 2016 minutes. Hearing none, the minutes were approved as submitted.

5. Public Hearing

a. 2017 Budget

Mayor Downing opened the public hearing at 12:40 pm.

Mrs. Terri Schaffer, Finance and Accounting Manager, presented the Final 2017 Budget. The final 2017 Budget was distributed to the Board on October 6, 2016. Changes from the draft presented at the September Board meeting, included:

- 1. Proposed mill levy increased slightly due to receiving the assessed valuations from Jefferson County and the third quarter projected CPI Increases.
- 2. Construction fund expenditures changed due to money originally anticipated being spent in 2016 now being carried over to 2017.

Three resolutions were introduced in the budget discussion. Resolution No. 48 certifies the levy, Resolution No. 49 adopts the 2017 Budget, and Resolution No. 50 appropriates the funds.

Mayor Downing requested comments or questions from the Board and public. There being none, the public hearing was closed at 12:48 pm.

6. Consent Agenda (Consent items are considered routine and will be approved by one motion unless a request is made by a Board Member for removal for further discussion or explanation.)

a. Review of Cash Disbursements

Cash Disbursement list, dated September and October 2016, had been 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. Acceptance of Certification of Tax Levy

(Resolution No. 48, Series of 2016)

Resolution No. 48, Certification of Tax Levy, was discussed during the Public Hearing portion of the meeting. There being no further comments or questions, it was the consensus of the Board to place Resolution No. 48 on the Consent Agenda.

c. Adoption of 2017 Budget

(Resolution No. 49, Series of 2016)

Resolution No. 49, Adoption of 2017 Budget, was discussed during the Public Hearing portion of the meeting. There being no further comments or questions, it was the consensus of the Board to place Resolution No. 49 on the Consent Agenda.

d. Appropriation of Funds for 2017

(Resolution No. 50, Series of 2016)

Resolution No. 50, Appropriation of Funds for 2017, was discussed during the Public Hearing portion of the meeting. There being no further comments or questions, it was the consensus of the Board to place Resolution No. 50 on the Consent Agenda.

- 7. Vote on Approval of the Consent Agenda (Motion and roll call vote required)
 It was the consensus of the Board that Resolutions No. 48, 49, and 50, Series of 2016, and Cash
 Disbursements dated September and October 2016 be placed on the Consent Agenda. Mayor Downing
 moved to adopt the Consent Agenda. Upon a roll call vote the motion was passed unanimously.
- 8. Executive Session Personnel Matter Interview of Three Candidates for the Executive Director [24-6-402(4)(f)(I) and (3.5) C.R.S.]
 - a. Appointment of New Executive Director (Resolution No. 51, Series of 2016)

Following the Executive Session, the Board discussed offering the position of Executive Director to Mr. Ken MacKenzie, inserting Mr. Mackenzie's name into Resolution No. 51 and adopting Resolution No. 51 which would, in effect, offer Mr. MacKenzie the position of Executive Director for the Urban Drainage and Flood Control District subject to contract finalization.

The Board authorized the Executive Committee to negotiate the financial details of Mr. MacKenzie's employment within the parameters established by the Board and to report the results of the negotiations back to the Board at the November 17, 2016 Board Meeting.

There being no further comments or questions, a motion was made and seconded to insert Mr. MacKenzie's name into Resolution No. 51 and thereafter to adopt Resolution No. 51. Upon a roll call vote the motion to adopt Resolution No. 51 passed unanimously.

9. Announcements

a. Next Regularly Scheduled Meeting: <u>Thursday, November 17, 2016</u> (It was later changed to November 22, 2016)

10. Adjournment

Mayor Downing adjourned the meeting at 3:25 pm.

RESOLUTION NO. 52, SERIES OF 2016 (Adoption of 2017 Work Plan)

WHEREAS, the 2017 Budget anticipated a work plan emphasizing the planning, design, and construction of solutions to major drainage problems in the District; and

WHEREAS, the 2017 Budget anticipated a work plan emphasizing maintenance and preservation of major drainageways in the District; and

WHEREAS, the 2017 Budget anticipated a work plan recognizing the value of preventive and remedial master planning on developed and undeveloped floodplains; and

WHEREAS, the 2017 Budget anticipated a work plan recognizing the need for floodplain management activities; and

WHEREAS, the 2017 Budget anticipated a work plan recognizing the need for information services and local flood warning enhancements; and

WHEREAS, the 2017 Budget anticipated a work plan emphasizing the planning, design, and construction of solutions to flood control problems along the South Platte River and the maintenance of existing facilities on the River; and

WHEREAS, the 2017 Budget anticipated a work plan which included District assistance to Denver, Lakewood, Aurora and other local governments in complying with and applying for National Pollutant Discharge Elimination System (NPDES) storm sewer system permits and refining stormwater best management practices (BMP) technology for this semi-arid region; and

WHEREAS, the Board has considered the damage potential, local participation, the work already done by local governments, Corps of Engineers, and others, and the feasibility of defining and accomplishing solutions to drainage and flood control problems in 2017.

NOW, THEREFORE, BE IT RESOLVED that the Work Plan for 2017 is hereby adopted as follows:

A. Design, Construction, and Maintenance Program

Continue the Design, Construction, and Maintenance Program which includes work to be accomplished under the following funds:

1. Capital Improvement Fund

- a. Coordinate, manage, and participate in the funding of the design and construction of drainage facilities pursuant to the adopted Five-Year Capital Improvement Plan.
- b. Cooperate with local jurisdictions in the preparation of the Five-Year Capital Improvement Plan.
- c. Continue to assist local jurisdictions in assessing and solving multi-jurisdictional drainage and flood control problems.

2. South Platte River Fund

- a. Construct and maintain public drainage facilities along the South Platte River pursuant to the accepted South Platte River Work Plan.
- b. Implement flood control, maintenance access, river stabilization improvements, and other measures along the South Platte River in cooperation with public and private local sponsors.
- c. Maintain and continue development of information related to facilities, right-of-way, and geomorphology that is beneficial for the management of the South Platte River and for understanding its behavior.

3. Maintenance Fund

- a. Maintain public drainage facilities along the tributaries to the South Platte River pursuant to the accepted Maintenance Work Plan.
- b. Continue floodplain and floodway preservation efforts.
- c. Cooperate with local jurisdictions in the preparation of the Maintenance Work Plan.

B. Floodplain Management Program

Implement the District's Floodplain Management Program to include the following:

- 1. Continue assisting local entities in preparing, adopting, and administering floodplain regulations, and implement District regulations in those local jurisdictions that do not adopt and enforce floodplain regulations.
- 2. Delineate flood hazard areas.
- 3. Coordinate Federal Emergency Management Agency (FEMA) efforts within the District.
- 4. Review drainage and flood control proposals for proposed development affecting major drainageways upon request from local entities.
- 5. Continue the notification of floodplain occupants of flood hazards.
- 6. Continue the District's program of determining maintenance eligibility of drainage and flood control facilities constructed by others.
- 7. Continue the District's program to bring non-flood control reservoirs into compliance with District policy.
- 8. Continue development of the Cooperating Technical Partner (CTP) Program with FEMA.
- 9. Assist local governments and developers in the implementation of drainage and flood control master plans.

C. Information Services and Flood Warning Program

- 1. Continue data collection and flood documentation activities.
- 2. Assist local governments in developing, updating, exercising, and maintaining flood detection networks and flood warning plans.
- 3. Continue to provide meteorological services to supplement National Weather Service (NWS) watches and warnings, and work with NWS to improve flood warning capabilities.
- 4. Review and revise as necessary the Standard Operating Procedure for implementation of the District's Flood Disaster and Mitigation Plan.
- 5. Continue assisting local governments with developing self-help programs.
- 6. Continue development of District GIS capability.
- 7. Maintain and enhance District information technology systems and related services.

D. Master Planning Program

Assist local governments with coordinating and managing drainage and flood control master planning projects.

E. Special Projects

Continue the following special projects:

- Continue to support a rainfall/runoff data collection program including cooperative efforts with the U.S. Geology Survey (USGS) and others, and provide data analysis as appropriate.
- 2. Continue efforts to improve methodologies for planning and design of drainage and flood control facilities, stormwater best management practices and delineation of floodplains in the Denver region, and disseminate information developed to public from these efforts.
- 3. Continue development and updating of the District's Urban Storm Drainage Criteria Manual and continue administration of manual.

- 4. Provide coordination and assistance to local governments in the Denver metro area in their efforts to prepare NPDES permit applications and to comply with issued municipal NPDES stormwater discharge permits.
- 5. Continue projects to establish methods and agreements for financing and implementing regional drainage and flood control facilities.
- 6. Develop, compile, publish, and distribute appropriate information and data to assist local jurisdictions in drainage and flood control efforts including continuation of publication of Flood Hazard News and sponsoring of seminars.
- 7. Continue educational and information dissemination efforts to public officials, consulting firms, and the general public related to stormwater and flood management issues.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
	Date:
ATTEST:	
Secretary	Chairperson

RESOLUTION NO. 53, SERIES OF 2016

(Adoption of Five-Year Capital Improvement Plan [CIP]: 2016 – 2020)

WHEREAS, by Resolution No. 11, Series of 1973, the Board of Directors adopted a capital improvements expenditure policy; and

WHEREAS, by Title 32-11-214, C.R.S., it is stated:

- "(1) The District, acting by and through the board, may acquire, improve, equip, relocate, maintain, and operate the facilities, any project, or any part thereof, for the benefit of the district and the inhabitants thereof, after the board has made such preliminary studies and otherwise taken such action as it determines to be necessary or desirable as preliminaries thereto."
- "(2) When a comprehensive program for the acquisition of facilities for the district satisfactory to the board is available, such program shall be tentatively adopted. The program need only describe the proposed facilities in general terms and not in detail."
- "(3) A public hearing on the proposed program shall be scheduled, and notice of the hearing shall be given by publication. After the hearing and any adjournments thereof which may be ordered, the board may either require changes to be made in the program as the board shall consider desirable, or the board may approve the program as prepared."; and

WHEREAS, by Resolution No. 57, Series of 2015, the Board set forth projects that were adopted as a part of the comprehensive program for the years 2015 through 2019; and

WHEREAS, the Board desires to revise the comprehensive five-year capital improvement plan on an annual basis; and

WHEREAS, by Resolution No. 11, Series of 1973, key policies set by the Board to guide the selection of projects were considered in determining the 2016 – 2020 CIP; and

WHEREAS, the Board of Directors, adopted a budget for 2017 (Resolution No. 49, Series of 2016) which includes \$11,817,500 for CIP improvements within the District; and

WHEREAS, a public hearing on the proposed plan was held on November 22, 2016 pursuant to published notice, and testimony was taken and data provided describing the comprehensive program in general terms to the satisfaction of the Board.

NOW, THEREFORE, BE IT RESOLVED THAT:

- 1. The improvements described herein are necessary for the health, comfort, safety, convenience, and welfare of all the people in the State and are of special benefit to the inhabitants of the District and the property therein.
- 2. The list of projects is adopted as a part of the comprehensive five-year program for the years 2016 through 2020 for the implementation of projects. Such projects are described in general, and not in detail, and individual projects and authorizations therefore shall be approved by the Board on a project-by-project basis.
- 3. Individual projects on the CIP may be added, removed, or moved from one year to another in the CIP based on requests from the local governments and shifting priorities.
- 4. The following guidelines will be followed as the CIP is administered; or projects on the CIP are added, deleted, or moved from one year to another in the CIP:
 - a. Proposed improvements requested by local government.
 - b. Proposed projects must be master planned.
 - c. Local governments must provide at least a 50 percent match to District funds.
 - d. Local governments must agree to maintain the facilities.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
	Date:
ATTEST:	
Secretary	Chairperson

The District shall allocate funds such that revenues from counties will be spent for improvements within those counties over a five-year time period.

RESOLUTION NO. 54, SERIES OF 2016

(Authorization of 2017 Maintenance Work Plan Expenditures)

WHEREAS, the Colorado General Assembly in 1979 and in 1983 amended Title 32-11-217, C.R.S., thereby authorizing the District to levy up to four tenths (0.4) mill for a systematic and uniform program of preventive maintenance of drainage and flood control facilities within the District; and

WHEREAS, the Board adopted a policy statement related to the maintenance of capital improvements in 1978 (Resolution No. 41, Series of 1978); and

WHEREAS, it is the policy of the Board to allocate maintenance service expenditures to each county on the basis of revenues received annually from each county; and

WHEREAS, the Board of Directors, pursuant to such authorization adopted a budget for 2017 (Resolution No. 49, Series of 2016) which includes \$9,325,000 for the maintenance of drainage and flood control facilities within the District; and

WHEREAS, the Board of Directors desires to proceed with 2017 drainageway maintenance and related services.

NOW, THEREFORE, BE IT RESOLVED THAT:

- 1. The Board hereby authorizes the District to assist local governments within the District in the maintenance of major drainageway facilities. The following priorities shall be considered in determining the 2017 Maintenance Work Plan:
 - a. First priority District owned facilities.
 - b. Second priority Facilities owned by other public entities, but partly financed with District funds.
 - c. Third priority Facilities owned by other public entities and constructed by others without District assistance.
 - d. Fourth priority Unimproved urban drainageways.
 - e. Fifth priority Unimproved rural drainageways.
- 2. The Board authorizes the Executive Director to contract for those services necessary to implement the 2017 Maintenance Work Plan.
- 3. The total 2017 expenditures for maintenance services shall not exceed \$9,325,000 and the expenditures per county shall be in accordance with Board policy set forth in Resolution No. 41, Series of 1978.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
	Date:
ATTEST:	
Secretary	Chairperson

RESOLUTION NO. 55, SERIES OF 2016

(Authorization of 2017 CIP and Maintenance Work Plan for the South Platte River)

WHEREAS, the Colorado General Assembly in 1979 and in 1983 amended Title 32-11-217, C.R.S., thereby authorizing the District to levy up to four tenths (0.4) mill for a systematic and uniform program of preventive maintenance of drainage and flood control facilities within the District; and

WHEREAS, the Board established policy regarding operation of the South Platte River Program (Resolution No. 58, Series of 1986); and

WHEREAS, the Board of Directors adopted a budget for 2017 (Resolution No. 49, Series of 2016) which includes \$2,240,000 for construction and maintenance activities for the South Platte River; and

WHEREAS, the Board of Directors desires to proceed with 2017 South Platte River construction, maintenance, and other related services.

NOW, THEREFORE, BE IT RESOLVED THAT:

- 1. The Board hereby authorizes the District to assist local governments within the District along the South Platte River in construction and maintenance activities, river stability, and maintenance access facilities along the South Platte River.
- 2. The Board of Directors authorizes the Executive Director to contract for those services necessary to implement the 2017 construction and maintenance activities.
- 3. The total expenditures for the South Platte River shall not exceed \$2,240,000 in 2017 without further approval of the Board.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
	Date:
ATTEST:	
Secretary	Chairperson

RESOLUTION NO. 56, SERIES OF 2016

(Authorization to Participate in Drainage and Flood Control Improvements on McIntyre Gulch at Holland Street, City of Lakewood, Jefferson County)

WHEREAS, the District in a policy statement previously adopted (Resolution No. 14, Series of 1970 and Resolution No. 11, Series of 1973) expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, the City of Lakewood has enacted floodplain regulations; and

WHEREAS, the City of Lakewood and the District cooperated in the preparation of "Major Drainageway Planning - McIntyre Gulch - Phase B Report," dated November 1977; and

WHEREAS, the City of Lakewood has requested District participation in the design and construction of improvements along McIntyre Gulch at Holland Street (Exhibit A); and

WHEREAS, the City of Lakewood has estimated the total drainage project costs to be \$100,000; and

WHEREAS, the District's participation being authorized by this resolution is \$50,000; and

WHEREAS, it is anticipated that additional funds may be required for this project in the future; and

WHEREAS, the District has adopted a Special Revenue Fund—Construction Budget (Resolution No. 47, Series of 2015) for calendar year 2016, subsequent to public hearing, which includes funds for design, acquisition of right-of-way, and construction of drainage and flood control improvements along McIntyre Gulch at Holland Street; and

WHEREAS, the District has adopted, at a public hearing, a Five-Year Capital Improvement Plan (Resolution No. 57, Series of 2015) in which the improvements along McIntyre Gulch at Holland Street were included.

NOW, THEREFORE, BE IT RESOLVED THAT:

- 1. The Executive Director is authorized to execute the necessary agreements with the City of Lakewood for the design and construction of drainage and flood control improvements on McIntyre Gulch at Holland Street.
- 2. The Executive Director is authorized to enter into an agreement(s) with qualified engineers, qualified contractors, and others as necessary for the design and construction of drainage and flood control improvements on McIntyre Gulch at Holland Street.
- 3. The District's maximum contribution to the McIntyre Gulch at Holland Street project, without prior approval of the Board, shall be \$50,000 plus interest earned on monies deposited in the project fund, which contribution shall be at least matched by the City of Lakewood.
- 4. Such approval for expenditure of District funds is contingent upon the City of Lakewood agreeing to regulate and control any defined floodplain in the McIntyre Gulch at Holland Street project area in accordance with the National Flood Insurance Program Regulation as a minimum; agreeing to maintain the completed facilities in a manner acceptable to the District; granting the District access to the completed improvements at all times; and agreeing not to make any changes to the improvements without the District's approval.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
	Date:
ATTEST:	
Secretary	Chairperson

RESOLUTION NO. 56, SERIES OF 2016

(Authorization to Participate in Drainage and Flood Control Improvements on McIntyre Gulch at Holland Street, City of Lakewood, Jefferson County)

EXHIBIT A



3 Project No. 106299

RESOLUTION NO. 57, SERIES OF 2016

(Additional Authorization to Participate in Drainage and Flood Control Improvements on Happy Canyon Creek at Interstate 25, Douglas County)

WHEREAS, the District in a policy statement previously adopted (Resolution No. 14, Series of 1970 and Resolution No. 11, Series of 1973) expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, Douglas County has enacted floodplain regulations; and

WHEREAS, Douglas County and the District cooperated in the preparation of "Happy Canyon Creek Major Drainageway Plan," dated March 2014; and

WHEREAS, the Board previously authorized \$750,000 for design, acquisition of right-of-way, and construction of improvements along Happy Canyon Creek at Interstate 25 (Table 1 and Exhibit A); and

Table 1 Happy Canyon Creek at Interstate 25 Previous Authorizations

Resolution No.	Series of	District Authorization	Work Elements
033	2013	\$225,000	Design, Right of Way Purchases, and Construction Funding
038	2015	\$140,000	Design, Right of Way Purchases, and Construction Funding
043	2016	\$385,000	Design, Right of Way Purchases, and Construction Funding
	TOTAL	\$750,000	

WHEREAS, Douglas County and the District now desire to construct improvements along Happy Canyon Creek at Interstate 25; and

WHEREAS, Douglas County has estimated the additional drainage project costs to be \$690,829 resulting in a revised total drainage project cost of \$2,190,829 (\$845,000 District; \$1,345,829 Douglas County); and

WHEREAS, the District's additional participation being authorized by this resolution is \$95,000; and

WHEREAS, it is anticipated that additional funds may be required for this project in the future; and

WHEREAS, the District has adopted a Special Revenue Fund-Construction Budget (Resolution No. 47, Series of 2015) for calendar year 2016, subsequent to public hearing, which includes funds for construction of drainage and flood control improvements along Happy Canyon Creek at Interstate 25; and

WHEREAS, the District has adopted, at a public hearing, a Five-Year Capital Improvement Plan (Resolution No. 57, Series of 2015) in which the improvements along Happy Canyon Creek at Interstate 25 were included.

NOW, THEREFORE, BE IT RESOLVED THAT:

- 1. Resolution No. 33, Series of 2013, Paragraph 3, is further amended as follows: "The District's maximum contribution to the Happy Canyon Creek at Interstate 25 project without prior approval of the Board shall be \$750,000 \$845,000 plus interest earned on monies deposited in the project fund, which contribution shall be at least matched by Douglas County."
- 2. All other conditions and authorizations remain as stated in Resolution No. 33, Series of 2013.

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Project No. 100464

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
	Date:
ATTEST:	
Secretary	Chairperson

RESOLUTION NO. 57, SERIES OF 2016

(Additional Authorization to Participate in Drainage and Flood Control Improvements on Happy Canyon Creek at Interstate 25, Douglas County)

EXHIBIT A



3 Project No. 100464

RESOLUTION NO. 58, SERIES OF 2016

(Authorization to Participate in Drainage and Flood Control Improvements on Coal Creek from McCaslin Boulevard to Highway 36, Town of Superior, Boulder County)

WHEREAS, the District in a policy statement previously adopted (Resolution No. 14, Series of 1970 and Resolution No. 11, Series of 1973) expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, the Town of Superior has enacted floodplain regulations; and

WHEREAS, the Town of Superior and the District cooperated in the preparation of "Coal Creek and Rock Creek Major Drainageway Plan," dated October 2014; and

WHEREAS, the Town of Superior has requested District participation in the design, acquisition of right-of-way, and construction of improvements along Coal Creek from McCaslin Boulevard to Highway 36 (Exhibit A); and

WHEREAS, the Town of Superior has estimated the total drainage project costs to be \$1,100,000; and

WHEREAS, the District's participation being authorized by this resolution is \$0; and

WHEREAS, it is anticipated that additional funds may be required for this project in the future; and

WHEREAS, the District has adopted a Special Revenue Fund–Construction Budget (Resolution No. 47, Series of 2015) for calendar year 2016, subsequent to public hearing, which includes funds for design, acquisition of right-of-way, and construction of drainage and flood control improvements along Coal Creek from McCaslin Boulevard to Highway 36; and

WHEREAS, the District has adopted, at a public hearing, a Five-Year Capital Improvement Plan (Resolution No. 57, Series of 2015) in which the improvements along Coal Creek from McCaslin Boulevard to Highway 36 were included.

NOW, THEREFORE, BE IT RESOLVED THAT:

- 1. The Executive Director is authorized to execute the necessary agreements with the Town of Superior for the design, acquisition of right-of-way, and construction of drainage and flood control improvements on Coal Creek from McCaslin Boulevard to Highway 36.
- 2. The Executive Director is authorized to enter into an agreement(s) with qualified engineers, qualified contractors, and others as necessary for the design, acquisition of right-of-way, and construction of drainage and flood control improvements on Coal Creek from McCaslin Boulevard to Highway 36.
- 3. The District's maximum contribution to the Coal Creek from McCaslin Boulevard to Highway 36 project, without prior approval of the Board, shall be \$0 plus interest earned on monies deposited in the project fund, which contribution shall be at least matched by the Town of Superior.
- 4. Such approval for the District's agreeing to manage the project is contingent upon the Town of Superior agreeing to regulate and control any defined floodplain in the Coal Creek from McCaslin Boulevard to Highway 36 project area in accordance with the National Flood Insurance Program Regulation as a minimum; agreeing to maintain the completed facilities in a manner acceptable to the District; granting the District access to the completed improvements at all times; and agreeing not to make any changes to the improvements without the District's approval.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT	
	Date:	
ATTEST:		
Secretary	Chairperson	

RESOLUTION NO. 58, SERIES OF 2016

(Authorization to Participate in Drainage and Flood Control Improvements on Coal Creek from McCaslin Boulevard to Highway 36, Town of Superior, Boulder County)

EXHIBIT A



RESOLUTION NO. 59, SERIES OF 2016

(Authorization to Enter into Agreement with the U.S. Geological Survey (USGS) for Rainfall/Runoff Investigation)

WHEREAS, the District is authorized to conduct studies related to urban drainage, and to establish, operate, and maintain facilities related to urban drainage within the District; and

WHEREAS, the District adopted a budget for calendar year 2017 (Resolution No. 49, Series of 2016) that included sufficient funds in the Maintenance Fund for the continued support of a rainfall/runoff data collection and analysis program in cooperation with the U.S. Geological Survey (USGS) and others; and

WHEREAS, the District adopted a Work Plan for 2017 (Resolution No. 52, Series 2016) that includes maintenance funding to support a rainfall/runoff data collection and analysis program in cooperation with the USGS and others; and

WHEREAS, the District has been engaged in cooperative agreements with the USGS, an agency of the federal government, since October 1970 with regard to rainfall, runoff, stream flow data collection and investigations; and

WHEREAS, the District and the USGS have worked together to establish gauges on a number of major streams within the District in order to measure peak flow rates; and

WHEREAS, this data collection is necessary to calibrate the regional hydrologic model that is the basis for the design of all drainage and flood control infrastructure within the District; and

WHEREAS, the USGS has funds available to match District funds to support the continued operation and maintenance of these gauges, and has offered to renew a cooperative agreement related to such data collection; and

WHEREAS, the cost of entering into a cooperative agreement with the USGS in 2017 with regard to rainfall, runoff, and stream flow data collection and investigations is estimated at \$120,000 and sufficient funds are included in the 2017 Work Plan for these efforts.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The Executive Director is authorized to enter into a cooperative agreement with the USGS with regard to rainfall/runoff data collection and investigation. The expenditures of District maintenance funds in 2017 for this work shall not exceed \$120,000 without further approval of the Board.

(SEAL)	FLOOD CONTROL DISTRICT		
	Date:		
ATTEST:			
Secretary	Chairperson		

RESOLUTION NO. 60. SERIES OF 2016

(Authorization to Assist Communities with NPDES MS4 Permit Compliance to Develop Engineering Criteria and Software, and to Conduct Stormwater Management Research)

WHEREAS, the Board, has since 1991, authorized District support of governments within the District in their efforts to comply with National Pollutant Discharge Elimination System (NPDES) Municipal Separate Stormwater Sewer System (MS4) permit requirements and related activities; and

WHEREAS, the District adopted a budget for calendar year 2017 (Resolution No. 49, Series of 2016) that included \$415,000 in the General Fund to continue assisting governments within the District with their MS4 permit programs, to develop engineering criteria, software, and to conduct stormwater management research; and

WHEREAS, the Board has adopted the 2017 Work Plan (Resolution No. 52, Series of 2016) which includes continuation to assist governments within the District with their MS4 permit programs, to develop engineering criteria, software, and to conduct stormwater management research; and

WHEREAS, the Board desires, in 2017, to continue assisting governments within the District with their current and evolving MS4 permit programs by improving the understanding of the performance of various stormwater best management practices (BMPs), for which field performance data in this region is very limited; and

WHEREAS, the District has, since 1974, maintained and distributed the Urban Storm Drainage Criteria Manual, originally published in 1969 by the Denver Regional Council of Governments (DRCOG), and has also made available public domain "freeware" engineering design software to support these criteria; and

WHEREAS, the District's criteria and engineering design software are used by engineers and stormwater professionals worldwide to help them follow District criteria when developing hydrology and designing flood channels, culverts, detention basins, retention ponds, street inlets, storm sewers, and stormwater quality treatment facilities: and

WHEREAS, many governments within the District boundary require the use of District criteria and engineering design software within their jurisdictions; and

WHEREAS, the District is committed to advancing the state of the practice of drainage, flood control, and stormwater quality engineering through research projects in collaboration with state and federal agencies, Colorado universities and colleges, and other research partners, which in turn leads to improved District criteria and engineering design software to support these criteria; and

WHEREAS, the 2017 cost of support services needed to meet NPDES Phase 1 permit commitments, to assist NPDES Phase 2 communities in their evolving permit compliance requirements, to provide required wetweather monitoring of receiving waters as agreed to between the State and the permitted municipalities, and to continue the installation and testing of BMP facilities for the purpose of improving their design technology is estimated at \$165,000, the estimated cost for criteria development is estimated at \$70,000, the cost of software development is estimated at \$80,000 and the estimated cost for stormwater management research is estimated at \$100,000; and

NOW, THEREFORE, BE IT RESOLVED THAT:

 The Executive Director is authorized to continue to contract for necessary consulting, monitoring, education/outreach, and other services in 2017 necessary for the District to assist NPDES regulated municipalities within the District in their efforts to comply with NPDES MS4

- permits. In addition, the Executive Director is authorized to extend this assistance through the design, construction, continued field testing and the development of design guidance of stormwater BMPs for use in this region.
- 2. The Executive Director is authorized to execute the necessary agreements with qualified partners and consultants to assist the District in developing criteria, software, and in conducting stormwater management research.
- 3. The expenditure for this work in 2017 shall not exceed \$415,000 without further authorization from the Board.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT		
	Date:		
ATTEST:			
Secretary	Chairperson		

RESOLUTION NO. 61, SERIES OF 2016

(Authorization for a Planning Study of SJCD (N), SJCD (S) North Tributary and DFA 6100.5)

WHEREAS, the District in a policy statement previously adopted (Resolution No. 14, Series of 1970 and Resolution No. 11, Series of 1973) expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, Jefferson County has enacted floodplain regulations; and

WHEREAS, the Board has previously established a Work Plan for 2017 (Resolution No. 52, Series of 2016) which includes master planning; and

WHEREAS, the Board previously cooperated with Jefferson County to prepare the "Major Drainageway Planning S.J.C.D. (North) – Basin 6100," report (CH2M Hill, 1976);

WHEREAS, Jefferson County has expressed a desire to participate in a study leading to a Major Drainageway Plan and Flood Hazard Area Delineation for SJCD (N), SJCD (S) North Tributary and DFA 6100.5; and

WHEREAS, the Board wishes to cooperate with Jefferson County in the identification of solutions to stormwater drainage and flood control management problems for SJCD (N), SJCD (S) North Tributary and DFA 6100.5 (Exhibit A); and

WHEREAS, the cost of engineering and mapping services for this study is estimated to be \$200,000 and is expected to be divided among participating entities as follows:

	Planning Study	<u>FHAD</u>
District	\$75,000	\$50,000
Jefferson County	\$75,000	\$0
TOTAL	\$150,000	\$50,000

NOW, THEREFORE, BE IT RESOLVED THAT:

- 1. The Executive Director is authorized to execute an agreement with Jefferson County to fund the required engineering and mapping services for the SJCD (N), SJCD (S) North Tributary and DFA 6100.5 planning study.
- 2. The Executive Director is authorized to procure any needed mapping and to execute a contract with a qualified engineer(s) for required engineering services.
- 3. The expenditures for the consulting and mapping services are estimated at \$200,000 and the District's share of total costs shall not exceed \$125,000 plus interest earned on monies deposited in the project fund which contribution for the planning portion of this project shall be matched by Jefferson County.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT	
	Date:	
ATTEST:		
Secretary	Chairperson	

RESOLUTION NO. 61, SERIES OF 2016 (Authorization for a Planning Study of SJCD (N), SJCD (S) North Tributary and DFA 6100.5)



SJCD (N), SJCD (S) NORTH TRIBUTARY, DFA 6100.5
MDP & FHAD
Approximate Study Limits
June 2016

× × × ×

RESOLUTION NO. 62, SERIES OF 2016 (Authorization for a Planning Study of Basin 4100 and DFA 0056)

WHEREAS, the District in a policy statement previously adopted (Resolution No. 14, Series of 1970 and Resolution No. 11, Series of 1973) expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, the City of Thornton and Adams County have enacted floodplain regulations; and

WHEREAS, the Board has previously established a Work Plan for 2017 (Resolution No. 52, Series of 2016) which includes master planning; and

WHEREAS, the Board previously cooperated with the City of Thornton and Adams County to prepare the "Basin 4100 and Direct Flow Area 0056 Outfall Systems Planning Study," report (Kiowa, 2002);

WHEREAS, the City of Thornton and Adams County have expressed a desire to participate in a study leading to an Outfall Systems Plan for Basin 4100 and DFA 0056; and

WHEREAS, the Board wishes to cooperate with the City of Thornton and Adams County in the identification of solutions to stormwater drainage and flood control management problems for Basin 4100 and DFA 0056 (Exhibit A); and

WHEREAS, the cost of engineering and mapping services for master planning is estimated to be \$160,000 and is expected to be divided among participating entities as follows:

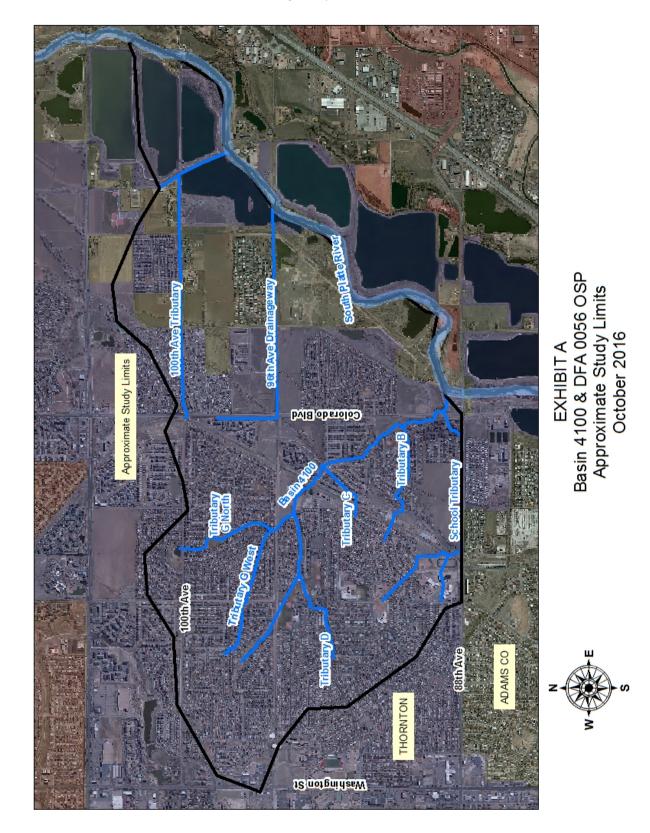
	Planning Study
District	\$80,000
Thornton	\$68,000
Adams County	\$12,000
TOTAL	\$160,000

NOW. THEREFORE. BE IT RESOLVED THAT:

- 1. The Executive Director is authorized to execute an agreement with the City of Thornton and Adams County to fund the required engineering and mapping services for the Basin 4100 and DFA 0056 planning study.
- 2. The Executive Director is authorized to procure any needed mapping and to execute a contract with a qualified engineer(s) for required engineering services.
- 3. The expenditures for the consulting and mapping services are estimated at \$160,000 and the District's share of total costs shall not exceed \$80,000 plus interest earned on monies deposited in the project fund which contribution for the planning portion of this project shall be matched by the City of Thornton and Adams County.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
	Date:
ATTEST:	
Secretary	Chairperson

RESOLUTION NO. 62, SERIES OF 2016 (Authorization for a Planning Study of Basin 4100 and DFA 0056)



RESOLUTION NO. 63, SERIES OF 2016

(Authorization for a Planning Study for Goose Creek and Twomile Canyon Creek)

WHEREAS, the District in a policy statement previously adopted (Resolution No. 14, Series of 1970 and Resolution No. 11, Series of 1973) expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, City of Boulder has enacted floodplain regulations; and

WHEREAS, the Board has previously established a Work Program for 2016 (Resolution No. 56, Series of 2015) which includes master planning; and

WHEREAS, the Board previously cooperated with the City of Boulder and Boulder County to prepare the "Boulder and Adjacent County Drainageways Major Drainageway Planning," report (Greenhorne & O'Mara, 1987); and

WHEREAS, the City of Boulder has expressed a desire to participate in a study leading to a Major Drainageway Plan for Goose Creek and Twomile Canyon Creek; and

WHEREAS, the Board wishes to cooperate with the City of Boulder in the identification of solutions to stormwater drainage and flood control management problems for Goose Creek and Twomile Canyon Creek (Exhibit A); and

WHEREAS, the cost of engineering and mapping services for this study is estimated to be \$150,000 and is expected to be divided among participating entities as follows:

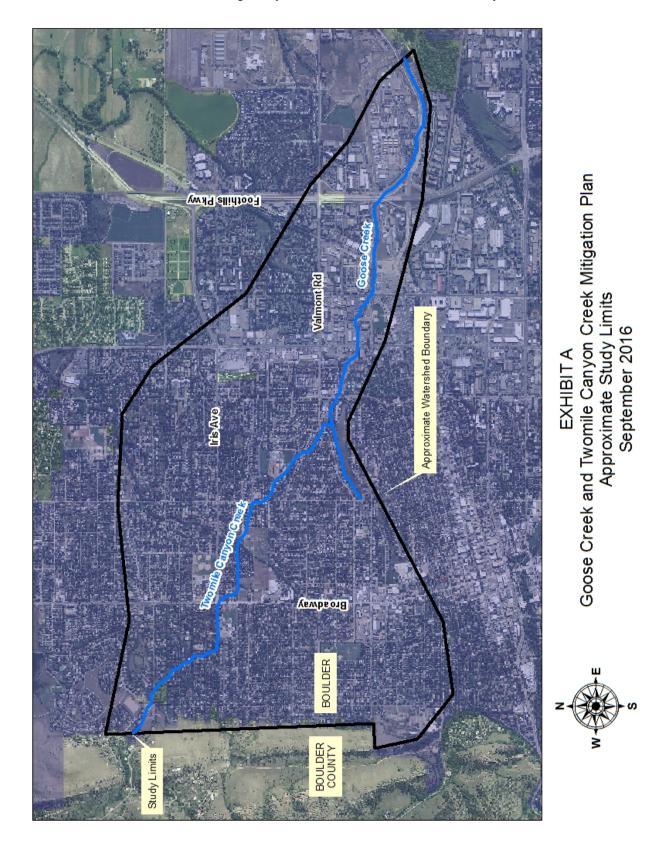
	Planning Study
District	\$75,000
<u>Boulder</u>	\$75,000
TOTAL	\$150,000

NOW. THEREFORE. BE IT RESOLVED THAT:

- 1. The Executive Director is authorized to execute an agreement with the City of Boulder to fund the required engineering and mapping services for the Goose Creek and Twomile Canyon Creek planning study.
- 2. The Executive Director is authorized to procure any needed mapping and to execute a contract with a qualified engineer(s) for required engineering services.
- 3. The expenditures for the consulting and mapping services are estimated at \$150,000 and the District's share of total costs shall not exceed \$75,000 plus interest earned on monies deposited in the project fund which contribution for the planning portion of this project shall be matched by the City of Boulder.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
	Date:
ATTEST:	
Secretary	Chairperson

RESOLUTION NO. 63, SERIES OF 2016 (Authorization for a Planning Study for Goose Creek and Twomile Canyon Creek)



3 Project No. 106382

RESOLUTION NO. 64, SERIES OF 2016

(Authorization for a Planning Study of Sand Creek Downstream of Colfax Avenue)

WHEREAS, the District in a policy statement previously adopted (Resolution No. 14, Series of 1970 and Resolution No. 11, Series of 1973) expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, the City of Commerce City, the City and County of Denver and the City of Aurora have enacted floodplain regulations; and

WHEREAS, the Board has previously established a Work Plan for 2017 (Resolution No. 52, Series of 2016) which includes master planning; and

WHEREAS, the Board previously cooperated with the City of Commerce City, the City and County of Denver and the City of Aurora on multiple studies along Sand Creek;

WHEREAS, the City of Commerce City, the City and County of Denver and the City of Aurora have expressed a desire to participate in a study leading to a Major Drainageway Plan and Flood Hazard Area Delineation (FHAD) for Sand Creek downstream of Colfax Avenue; and

WHEREAS, the Board wishes to cooperate with City of Commerce City, City and County of Denver and City of Aurora in the identification of solutions to stormwater drainage and flood control management problems for Sand Creek (Exhibit A); and

WHEREAS, the cost of engineering and mapping services for master planning is estimated to be \$250,000 and is expected to be divided among participating entities as follows:

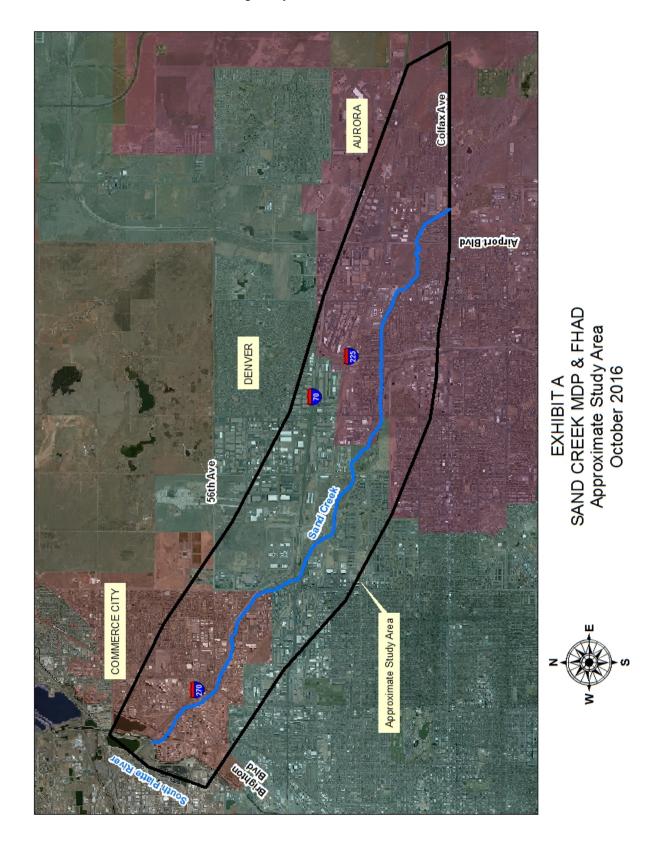
	<u>Planning Study</u>	<u>FHAD</u>
District	\$100,000	\$50,000
Commerce City	\$30,000	\$0
Denver	\$30,000	\$0
<u>Aurora</u>	\$40,000	\$0
TOTAL	\$200,000	\$50,000

NOW, THEREFORE, BE IT RESOLVED THAT:

- 1. The Executive Director is authorized to execute an agreement with the City of Commerce City, the City and County of Denver and the City of Aurora to fund the required engineering and mapping services for the Sand Creek planning study.
- 2. The Executive Director is authorized to procure any needed mapping and to execute a contract with a qualified engineer(s) for required engineering services.
- 3. The expenditures for the consulting and mapping services are estimated at \$250,000 and the District's share of total costs shall not exceed \$150,000 plus interest earned on monies deposited in the project fund which contribution for the planning portion of this project shall be matched by the City of Commerce City, the City and County of Denver and the City of Aurora.

(SEAL)	THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
	Date:
ATTEST:	
Secretary	Chairperson

RESOLUTION NO. 64, SERIES OF 2016 (Authorization for a Planning Study of Sand Creek Downstream of Colfax Avenue)



RESOLUTION NO. 65, SERIES OF 2016

(Authorization of Funds to Complete Flood Hazard Area Delineation Studies, Letter of Map Change Studies, Risk MAP Studies, and Other Floodplain Management Activities)

WHEREAS, the Board has previously established a Work Plan for 2017 (Resolution No. 52, Series of 2016) which includes the delineation of flood hazard areas and coordination of Federal Emergency Management Agency (FEMA) efforts within the District; and

WHEREAS, the Board in a policy statement previously adopted (Resolution No. 14, Series of 1970 and Resolution No. 11, Series of 1973) expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, the Board adopted a budget for calendar year 2017 (Resolution No. 49, Series of 2016) that included \$435,000 in the General Fund for Flood Hazard Area Delineation studies, Letter of Map Change Studies, Risk MAP studies, and other Floodplain Management Activities; and

WHEREAS, routine requests are received from local governments throughout the year for Flood Hazard Area Delineation studies or Letter of Map Revision studies; and

WHEREAS, FEMA may have funds available in 2017 for Risk MAP studies, which will require an as yet undetermined local contribution.

NOW THEREFORE BE IT RESOLVED THAT:

- 1. The Executive Director is authorized to expend the \$435,000 in the Floodplain Management budget for 2017, as well as any funds received from cooperating entities, or FEMA for the completion of Flood Hazard Area Delineation Studies, Letter of Map Revision Studies and/or Risk MAP projects requested by one or more local governments within the District, public notification to citizens of flood hazards, review of development projects, and other activities required to promote good floodplain management practices.
- 2. The Executive Director shall report periodically on floodplain management activities to the Board of Directors.
- 3. Such approval for expenditure of funds is contingent upon the benefiting local government agreeing to regulate and control the floodplain defined by the study in accordance with National Flood Insurance Program and enhanced Colorado Floodplain regulations as a minimum.

(SEAL)	FLOOD CONTROL DISTRICT		
	Date:		
ATTEST:			
Secretary	Chairperson		

1

RESOLUTION NO. 66, SERIES OF 2016 (Employment of New Executive Director)

WHEREAS, Resolution No. 51, Series of 2016 offered Mr. Ken MacKenzie employment as the new Executive Director of the District, effective October 13, 2016; and

WHEREAS, such employment is specified to be at will; and

WHEREAS, Resolution No. 51, Series of 2016 additionally authorized the Executive Committee to negotiate the financial details of Mr. MacKenzie's employment within the parameters established by the Board and to report back the results of the negotiations with Ken MacKenzie to the Board at its November 2016 monthly meeting; and

WHEREAS, the Executive Committee and Mr. Ken MacKenzie now have now agreed upon the negotiated financial details of Mr. MacKenzie's employment as specified in the Executive Director Employment Agreement.

NOW, THEREFORE, BE IT RESOLVED THAT:

- 1. The Board authorizes its Chairperson to enter into an Employment Agreement with Mr. Ken MacKenzie as the new Executive Director of the District.
- 2. Such employment is specified to be at will.

(SEAL)	FLOOD CONTROL DISTRICT		
	Date:		
ATTEST:			
Secretary	Chairperson		