

The logo for Mile High Flood District (MHFD) features the letters 'MHFD' in a light blue, sans-serif font. The 'H' is stylized with a horizontal bar connecting its two vertical stems.

MILE HIGH FLOOD DISTRICT



# MHFD Overview

David Bennetts - Director of Government Relations

- 1969 - Enacted by State Legislators



## VISION AND MISSION

Protect People, Property and our Environment through Preservation, Mitigation and Education.



Safety



Community



Stewardship

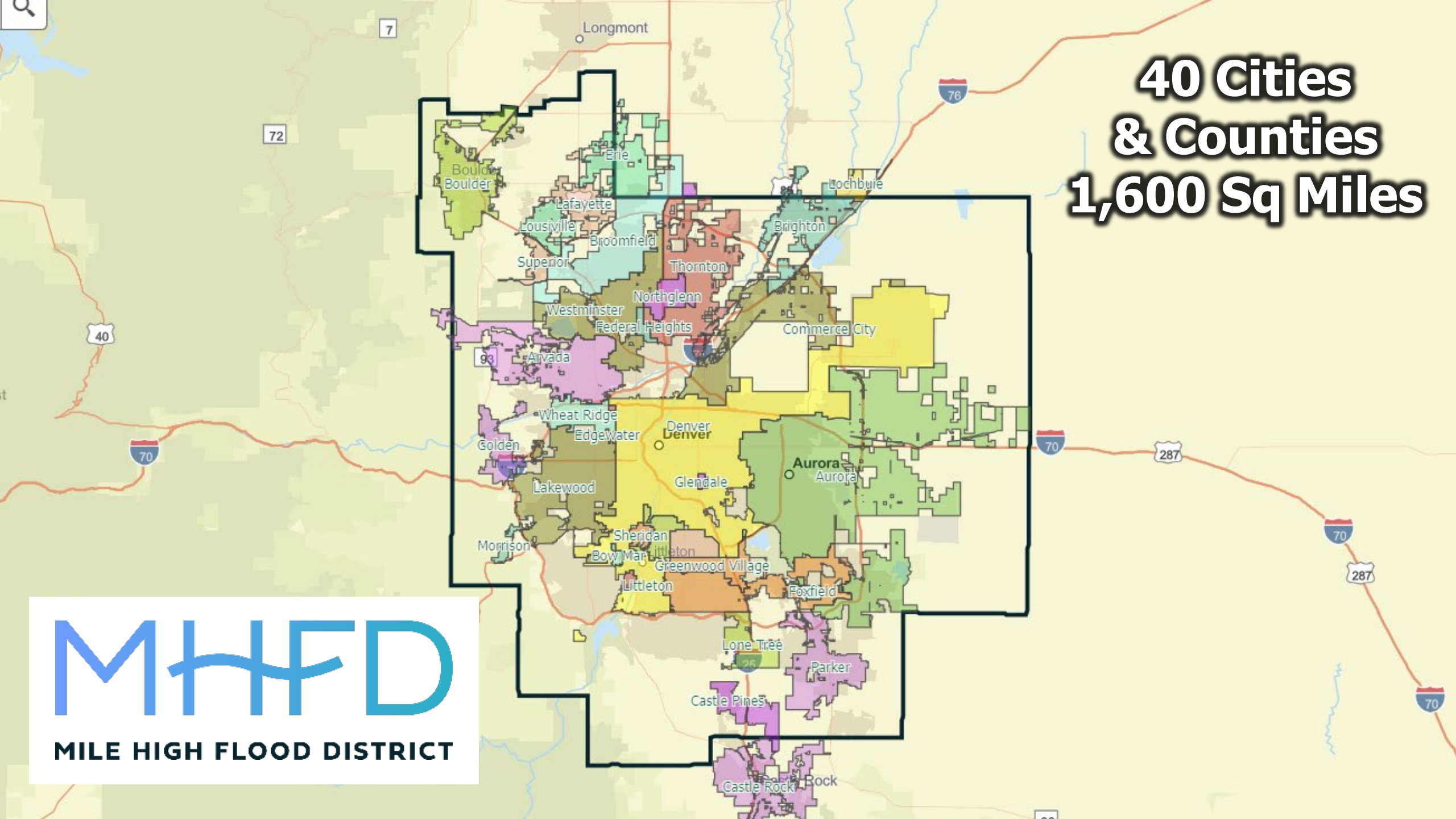


Learning

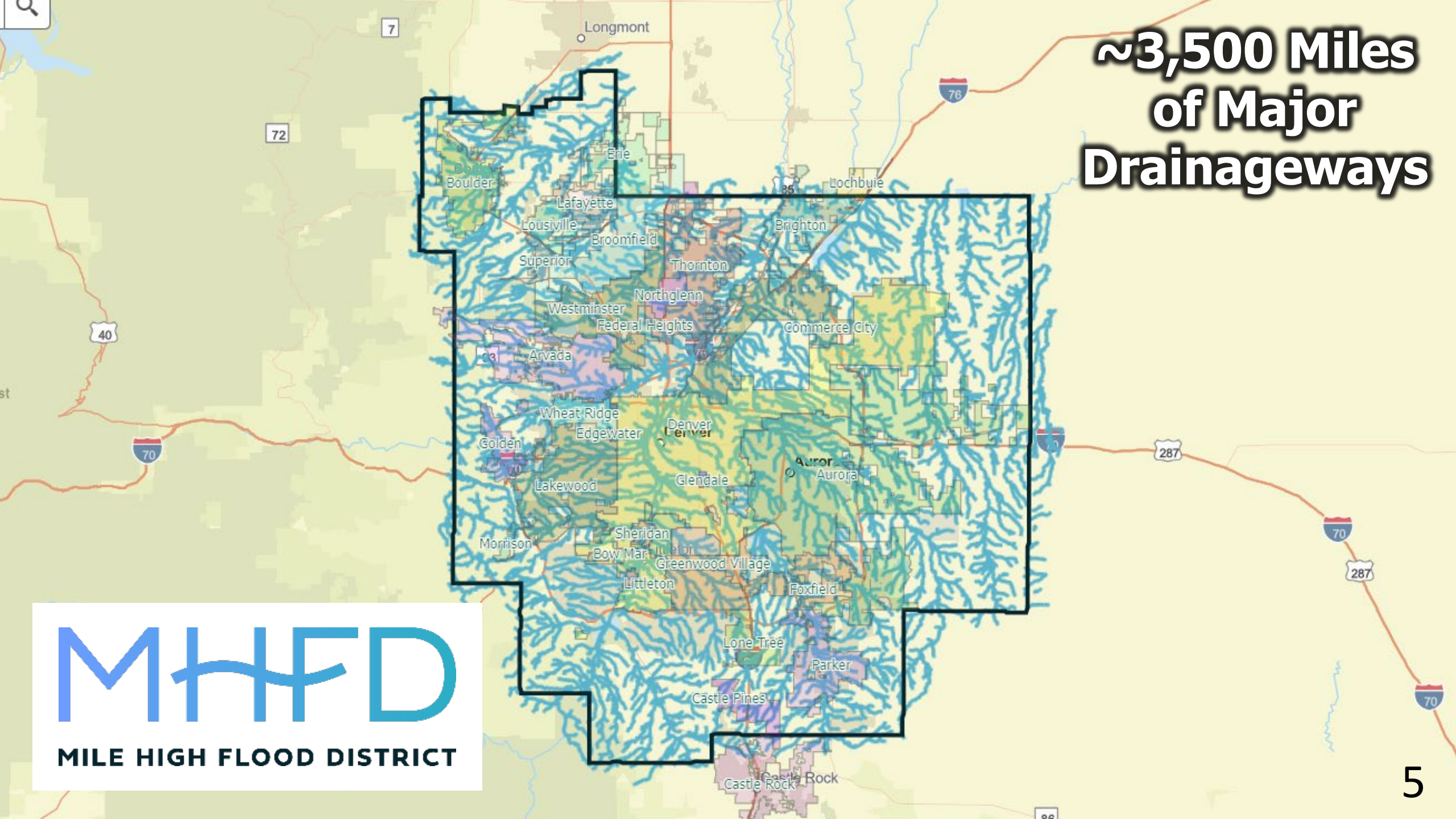
**40 Cities  
& Counties  
1,600 Sq Miles**

The logo for the Mile High Flood District (MHFD) features the letters 'MHFD' in a stylized, blue, sans-serif font. The 'M' and 'H' are connected at the top, and the 'F' and 'D' are also connected at the top. The letters are set against a white background.

**MILE HIGH FLOOD DISTRICT**



**~3,500 Miles  
of Major  
Drainageways**

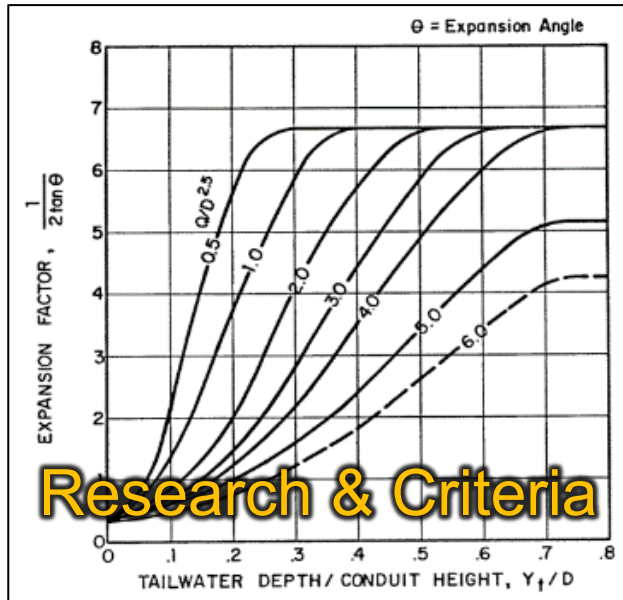




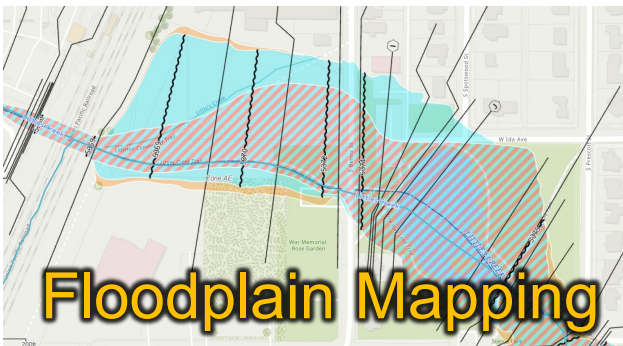
**Flood Warning**



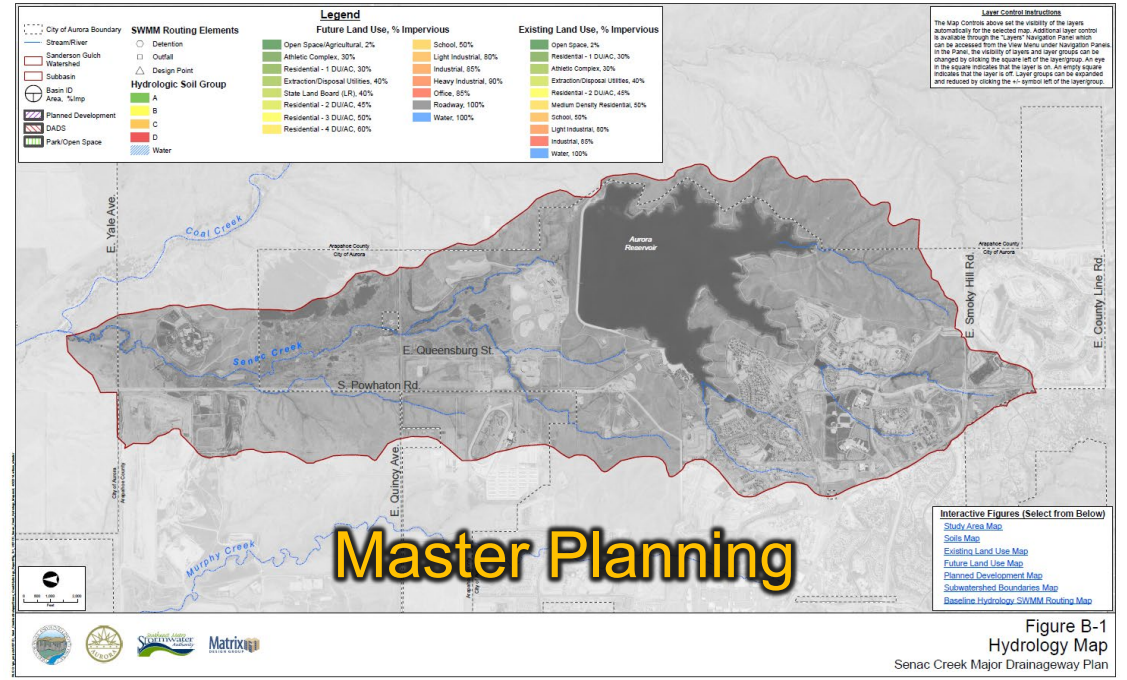
**Development**



**Research & Criteria**



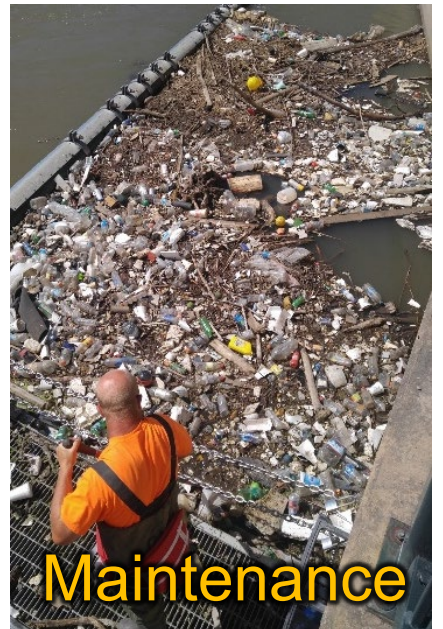
**Floodplain Mapping**



**Master Planning**

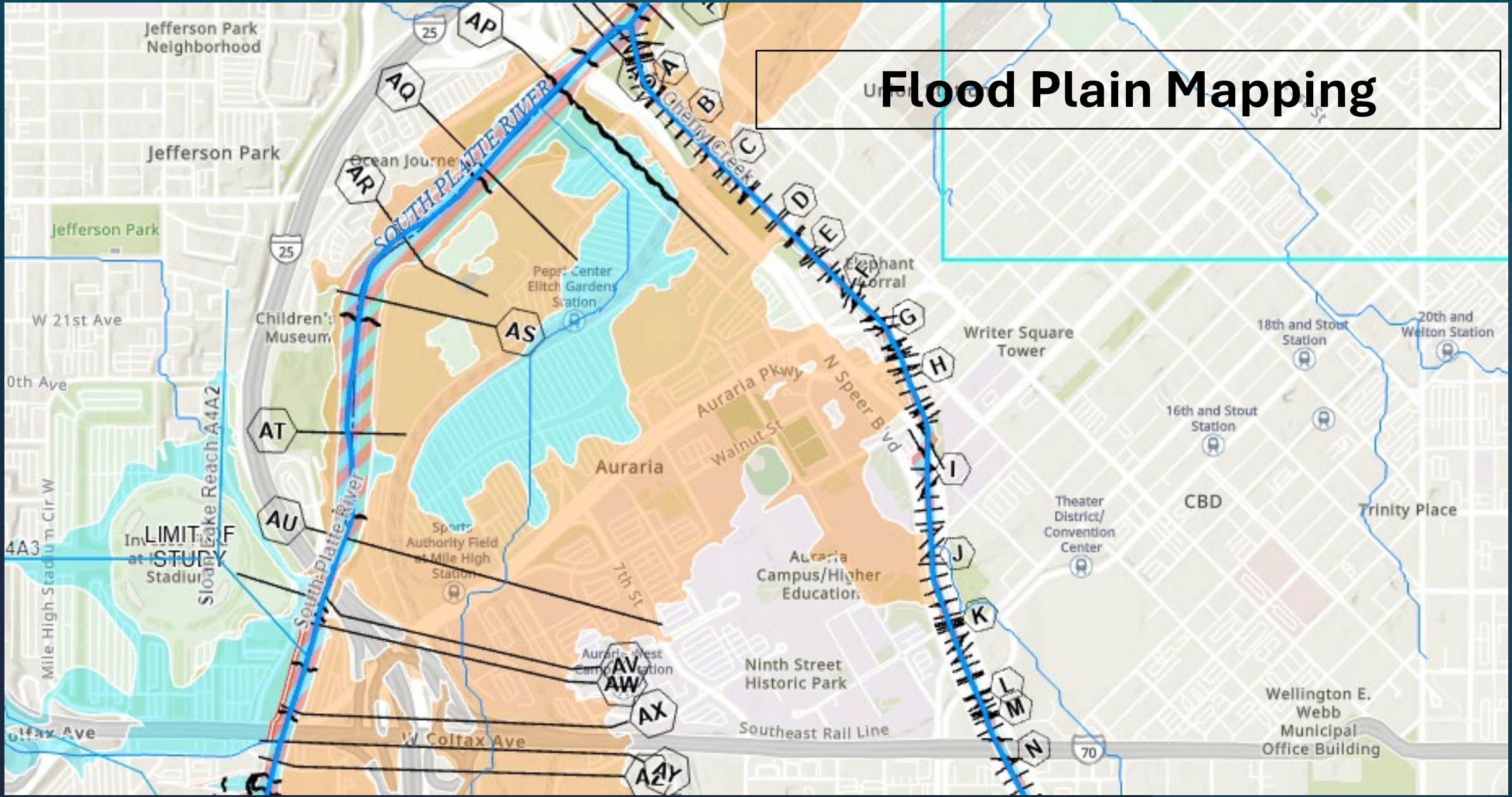


**Capital Construction**



**Maintenance**

# Flood Plain Mapping



URBAN DRAINAGE AND  
FLOOD CONTROL DISTRICT

CITY OF AURORA CITY AND COUNTY  
OF DENVER

UNITED STATES CO  
OF ENGINEERS

# Watershed Planning

## OUTFALL SYSTEMS PLANNING WESTERLY CREEK EAST OF HAVANA

### Westerly Creek Drainageway Update (Downstream of Westerly Creek Dam)

Prepared for:



City of Aurora



Urban Drainage &  
Flood Control Dis



*Draft*

WESTERLY CREEK

(UPSTREAM OF THE WESTERLY CREEK DAM)

MAJOR DRAINAGEWAY PLAN

Alternative Analysis Report

Prepared for



Urban Drainage and Flood Control District



City of Aurora

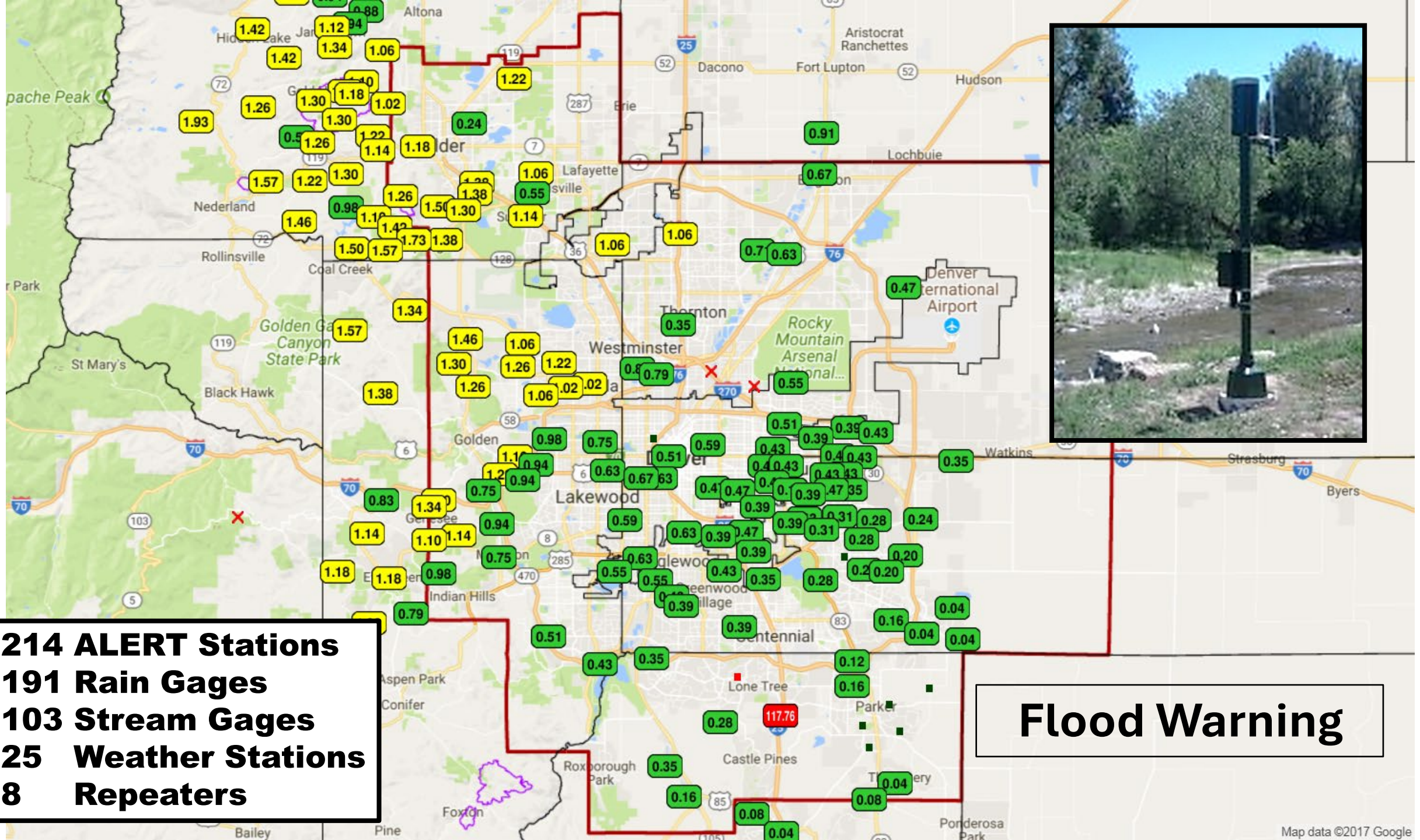


City and County of Denver

February 2014

**CH2MHILL**  
9193 South Jamaica Street  
Englewood, CO 80112  
303.771.0900

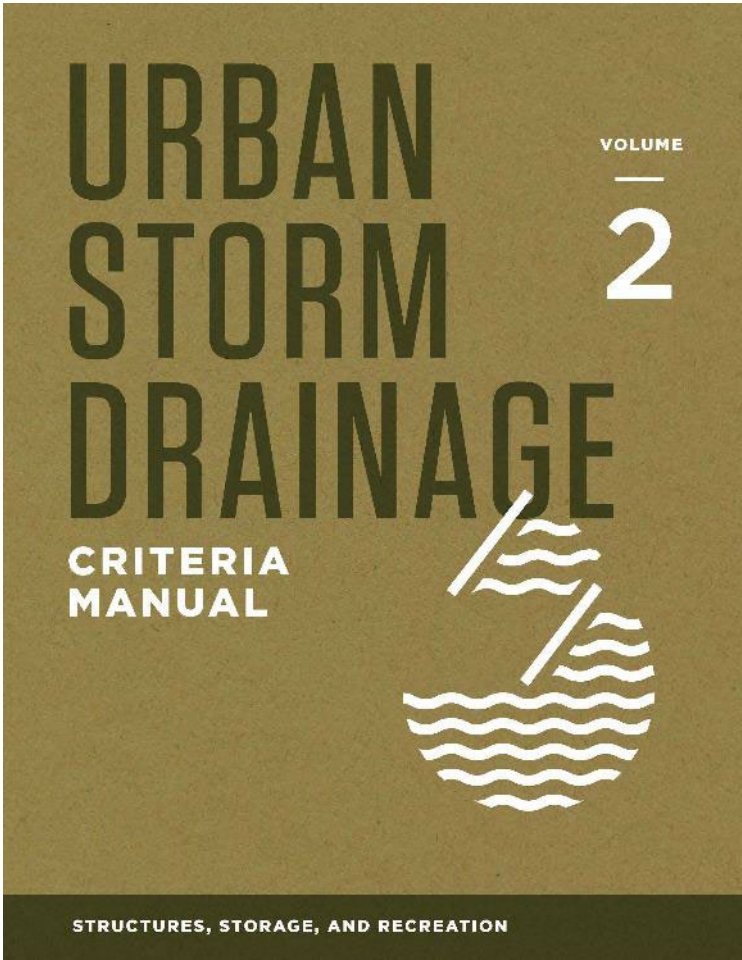
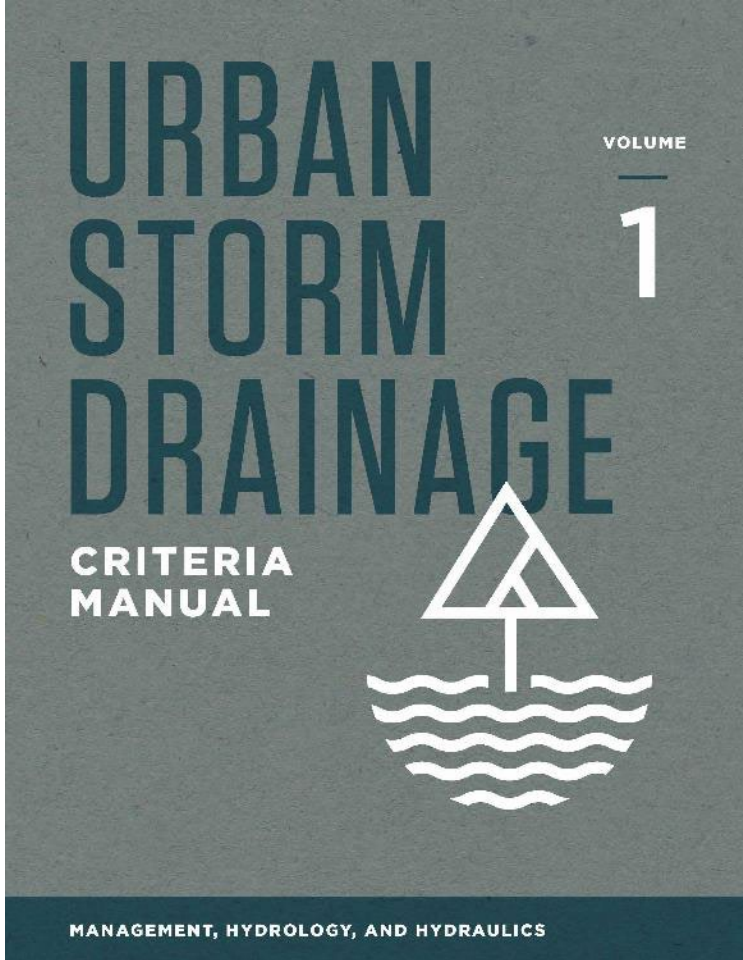
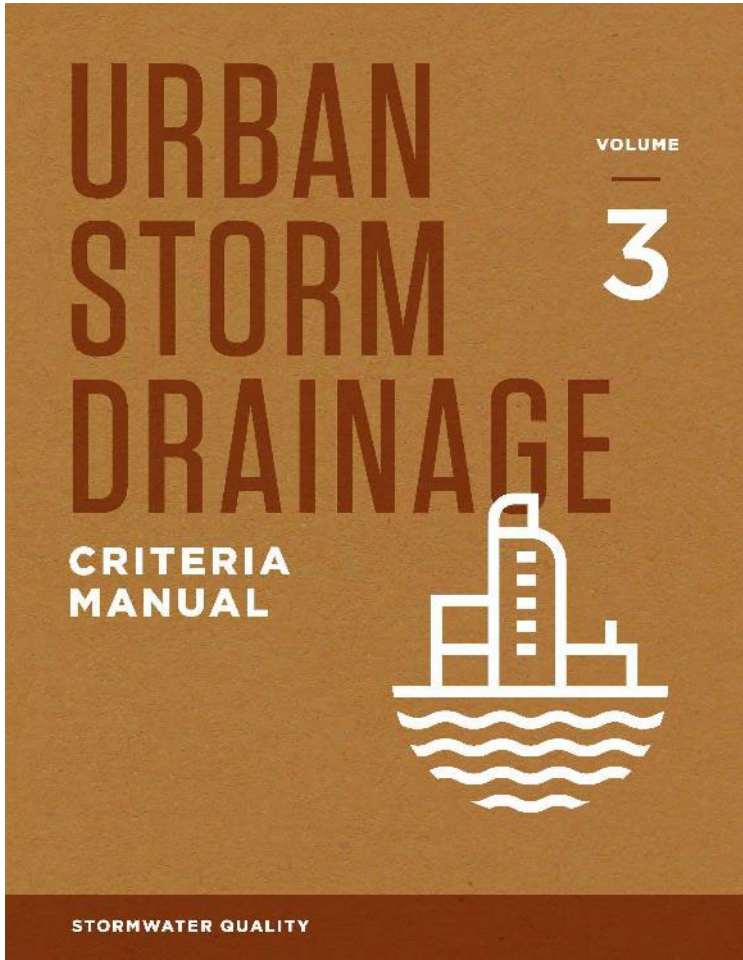




**214 ALERT Stations**  
**191 Rain Gages**  
**103 Stream Gages**  
**25 Weather Stations**  
**8 Repeaters**

**Flood Warning**

# Regional Criteria



# ***Denver's Stapleton Airport 1993***

***Westerly Creek***

***Stanley  
Aviation***

**Development Services**

# ***Central Park Neighborhood Today***

***Westerly Creek***

***Stanley Marketplace***

***26th Avenue***

***Beeler Street***

***Martin Luther King, Jr. Blvd***

# ***Central Park Neighborhood Today***



***Westerly Creek***

***Stanley Marketplace***

***26th Avenue***

***Beeler Street***

***Martin Luther King, Jr. Blvd***

# Property Acquisition







Search

# Denver County



Year 2024

List

Card

Capital Study Maintenance Acquisition R&D

Search



Workspace

2024

2025

2026

2027

+ Create Project

Irondale Gulch - ...

\$5,230,000 No. 1

Denver Approved

Weir Gulch at Rea...

\$6,000,000 No. 2

Denver Approved

Goldsmith Gulch ...

\$2,550,000 No. 2

Denver Approved

Goldsmith Gulch ...

\$1,250,000 No. 2

Denver Approved

Marston Lake Nor...

\$1,200,000 Work Plan

Denver Approved

Irondale Gulch - ...

\$2,000,000 No. 1

Denver Approved

Sanderson Gulch ...

\$300,000 Work Plan

Denver Approved

Valverde

\$100,000 No. 5

Denver Approved

Montclair Basin at...

\$100,000 No. 6

Denver Approved

Total Cost



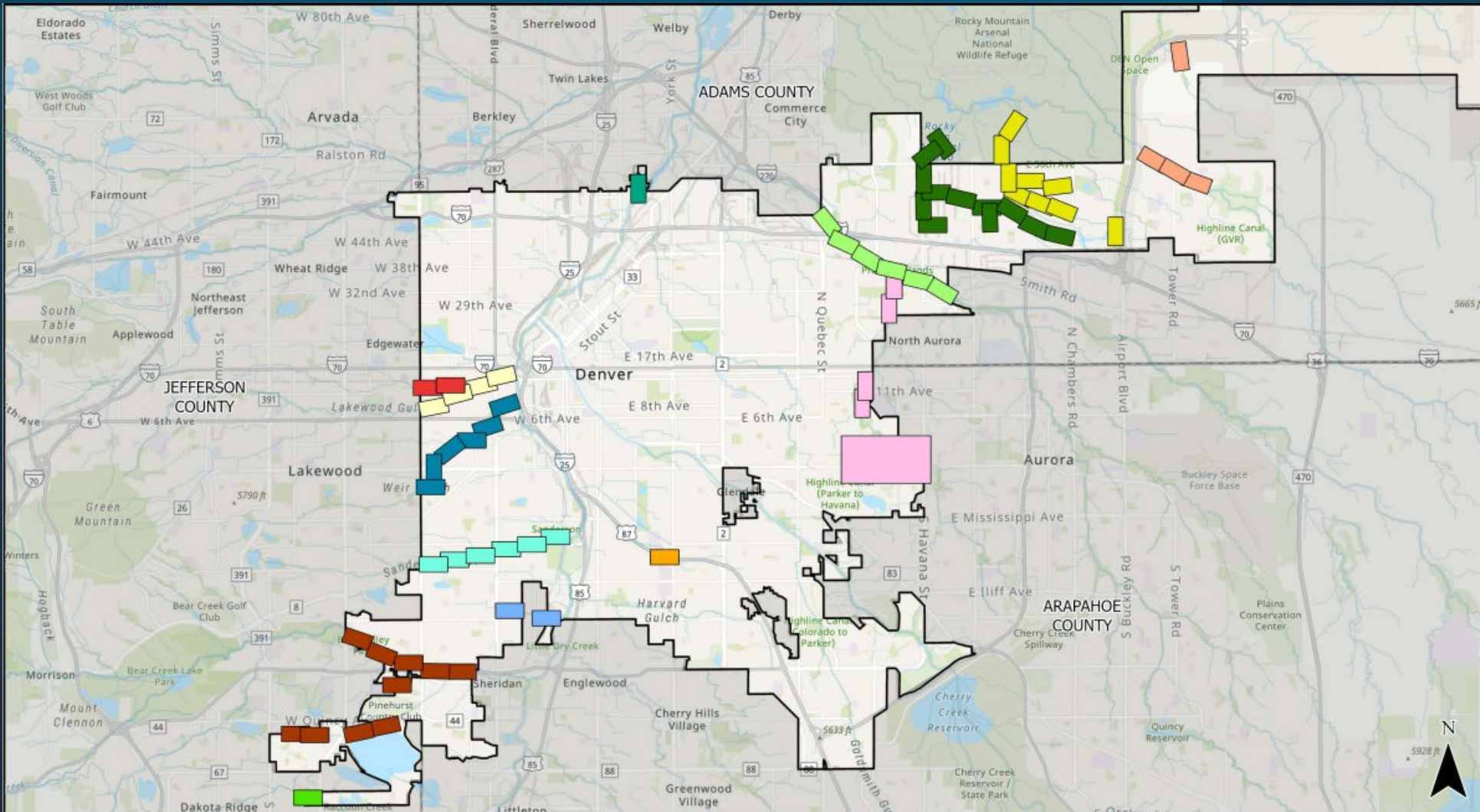


***Before***



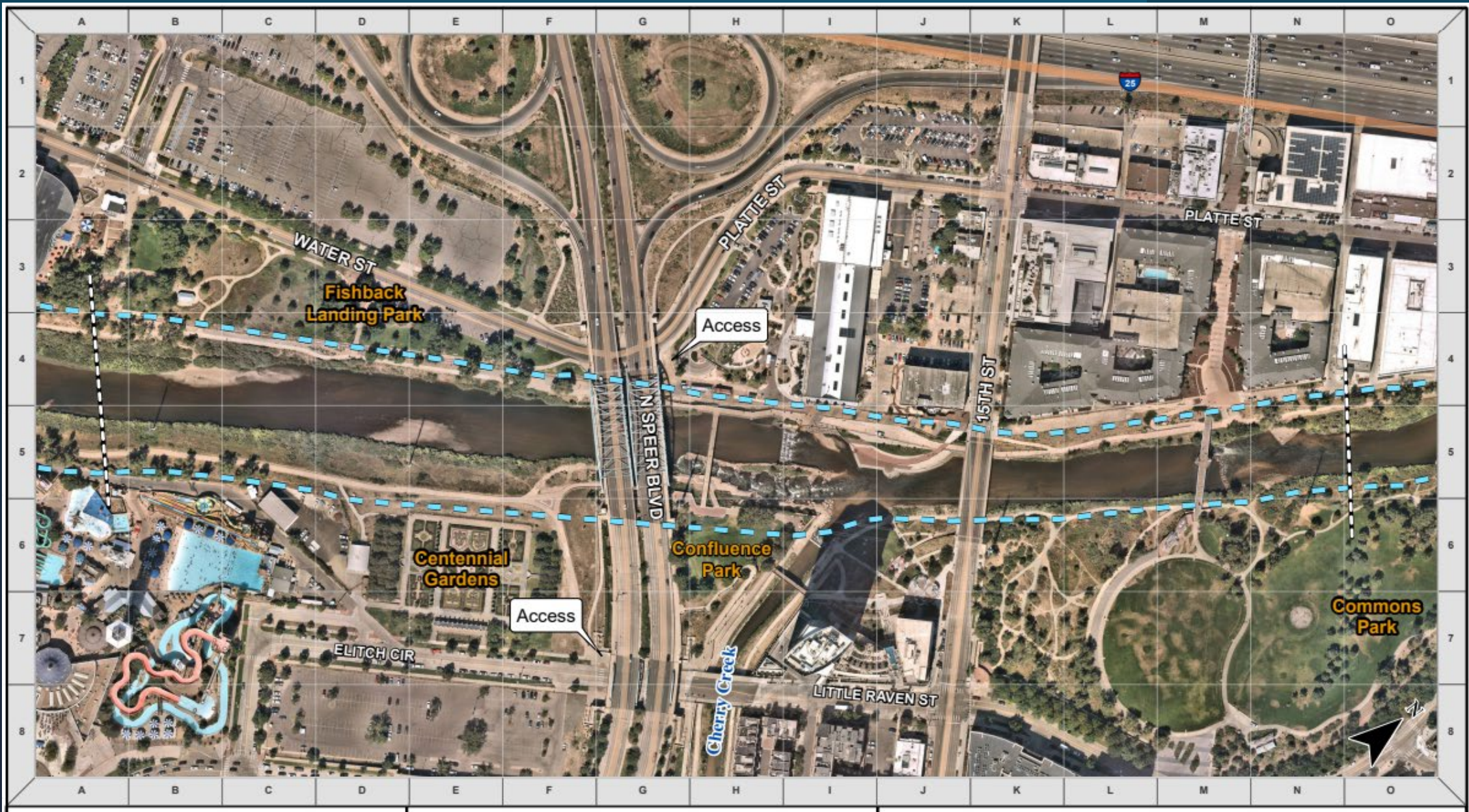
**After**



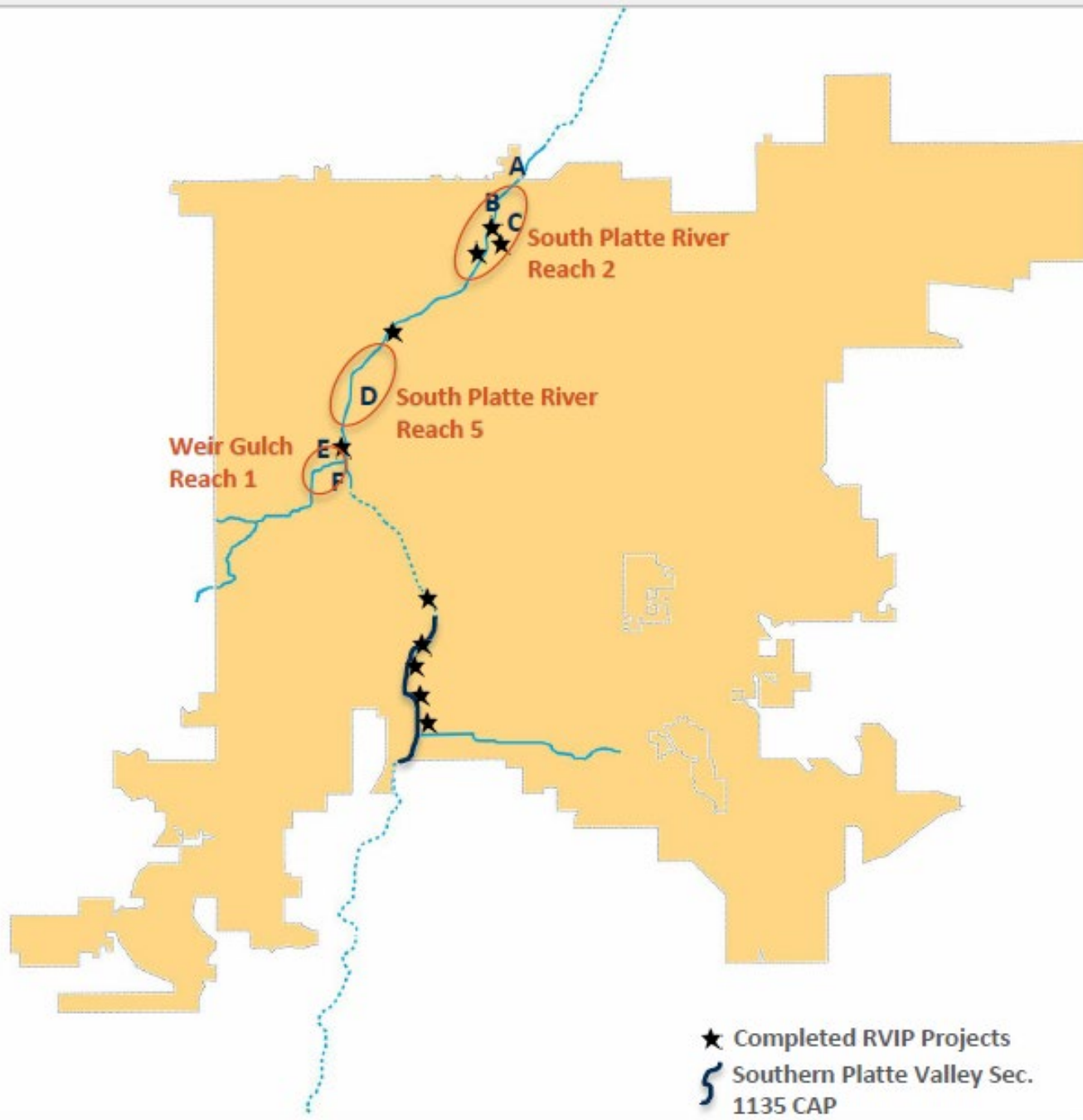


**MILE HIGH FLOOD DISTRICT**  
**ROUTINE MAINTENANCE**  
**DENVER 2**

- |   |   |   |
|---|---|---|
| <span style="color: brown;">■</span> BEAR CREEK (Pages 1-11)            | <span style="color: yellow;">■</span> LAKEWOOD GULCH (Pages 31-35)        | <span style="color: teal;">■</span> SOUTH PLATTE RIVER (Page 64)          |
| <span style="color: red;">■</span> DRY GULCH (Pages 12-14)              | <span style="color: darkgreen;">■</span> MONTBELLO DRAINAGE (Pages 36-48) | <span style="color: blue;">■</span> WEIR GULCH (Pages 65-71)              |
| <span style="color: orange;">■</span> FIRST CREEK (Pages 15-19)         | <span style="color: lightgreen;">■</span> RACCOON CREEK (Page 49)         | <span style="color: lightblue;">■</span> WEST HARVARD GULCH (Pages 72-74) |
| <span style="color: yellow;">■</span> INTERSTATE-25 (Page 20)           | <span style="color: mediumgreen;">■</span> SAND CREEK (Pages 50-56)       | <span style="color: pink;">■</span> WESTERLY CREEK (Pages 75-80)          |
| <span style="color: lightyellow;">■</span> IRONDALE GULCH (Pages 21-30) | <span style="color: cyan;">■</span> SANDERSON GULCH (Pages 57-63)         |   |









SOUTH PLATTE RIVER



WEIR GULCH



HARVARD GULCH



WATERWAY  
RESILIENCY  
PROGRAM

WEIR GULCH • SOUTH PLATTE • HARVARD GULCH



**DENVER**  
THE MILE HIGH CITY



**MHFD**  
MILE HIGH FLOOD DISTRICT

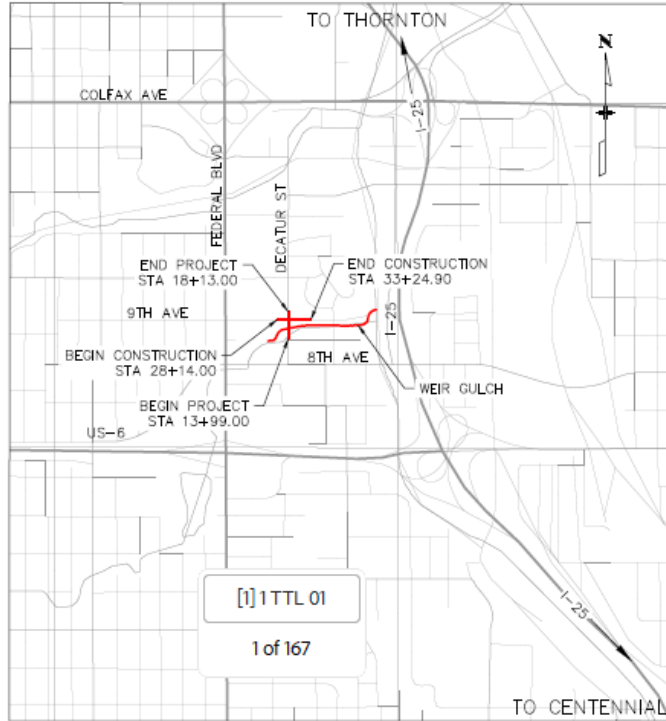


**COLORADO**  
Colorado Water  
Conservation Board  
Department of Natural Resources

# MILE HIGH FLOOD DISTRICT

90% PLANS OF THE PROPOSED  
**CIVIL ENGINEERING DESIGN AND CHANNEL IMPROVEMENTS**  
**WEIR GULCH - REACH W1, SOUTH PLATTE RIVER TO 8TH AVE**  
**DENVER, COLORADO**  
**PROJECT NUMBER: 2020-PROJMSTR-0000630**  
**JANUARY 12, 2024**

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2-3	GENERAL NOTES
4	PROJECT OVERVIEW
5-7	TYPICAL SECTIONS
8	SUMMARY OF APPROXIMATE QUANTITIES**
9	TABULATIONS**
10	SURVEY CONTROL
11-13	GEOMETRIC LAYOUT
14-17	REMOVAL PLANS
18-23	ROADWAY PLAN & PROFILE
24-29	SUP PLAN AND PROFILE
30-36	CURB RAMP AND DRIVEWAY DETAILS
37	PRIVATE PARKING LOT GRADING PLAN
38-39	STORM DRAIN PLANS
40-41	SIGNING & STRIPING PLAN
42-44	TRAFFIC CONTROL PLAN
45-49	ROADWAY CROSS SECTIONS
50-54	CHANNEL DETAILS
55-57	CHANNEL PLAN AND PROFILE
58-61	CHANNEL GRADING PLAN
62-66	CHANNEL CROSS SECTION
67-72	UTILITY PLANS
73-79	WATER MODIFICATION PLANS
80-82	STORM WATER MANAGEMENT PLAN (SWMP)
83	GENERAL INFORMATION
84	SUMMARY OF QUANTITIES
85-86	GENERAL LAYOUT
87	ENGINEERING GEOLOGY
88	BRIDGE HYDRAULIC INFORMATION
89	CONSTRUCTION LAYOUT
90	FOUNDATION LAYOUT AND DETAILS
91	ABUTMENT #1 PLAN AND ELEVATION
92	ABUTMENT #4 PLAN AND ELEVATION
93	ABUTMENT DETAILS
94	WINGWALL DETAILS
95-96	PIER DETAILS
97-98	P5 CONCRETE BOX GIRDER DETAILS
99	SUPERSTRUCTURE DETAILS
100	DECK PLAN
101	APPROACH SLAB DETAILS
102	RAIL DETAILS
103	EXCAVATION SHEET
104	MECHANICAL REINFORCEMENT OF SOIL
105	MISCELLANEOUS DETAILS
106-110	DECK ELEVATIONS
111	WALL GENERAL INFORMATION
112	WALL ENGINEERING GEOLOGY
113	NORTH WALL GENERAL LAYOUT
114-115	SOUTH WALL GENERAL LAYOUT
116	TYPICAL WALL SECTIONS
117	WALL COPING
118-126	TREE PROTECTION AND REMOVAL PLAN
129-139	LANDSCAPE PLANTING PLANS
140-149	SITE LANDSCAPE DETAILS
150	IRRIGATION SCHEDULE
151	IRRIGATION NOTES
152-153	IRRIGATION PLANS
154-156	IRRIGATION DETAILS
157	IRRIGATION CHARTS



**PROJECT LOCATION MAP**

Title Sheet 1 Inch = 2,000' Feet  
 Projected Lineal Units = U.S. Survey Feet

\*\*SHEETS RELATED TO QUANTITIES AND TABULATIONS NOT INCLUDED PENDING AGENCY DECISION REGARDING FORMAT (I.E. MHFD OR DOT)

### UTILITIES NOTICE TO CONTRACTOR AND UTILITIES OWNERS AND OPERATORS

- A SUBSURFACE UTILITY ENGINEERING NOTIFICATION WAS SUBMITTED ON FOR THE PROJECT TO THE COLORADO UTILITY NOTIFICATION ASSOCIATION. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS AND FOLLOW UP WITH THE UTILITY OWNERS AND OPERATORS THAT PROVIDED A POSITIVE RESPONSE. THE DEPICTION OF UTILITIES SHOWN ON THESE PLANS MEET ASCE 38 STANDARD.
- THE CONTRACTOR SHALL NOTIFY THE ASSOCIATION PRIOR TO EXCAVATION WORK AND ABIDE BY OTHER APPLICABLE STATUTES TO PROJECT UTILITIES. THE CONTRACTOR, UNLESS OTHERWISE NOTED ON THESE PLANS, SHALL PROTECT THE UTILITIES SHOWN AND ANY OTHER UTILITY LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND MAY BE HELD RESPONSIBLE FOR DAMAGES TO UTILITIES.
- UTILITY OWNERS AND OPERATORS SHALL RESPOND TO CONTRACTORS NOTIFICATION OF A PLANNED EXCAVATION AND ABIDE BY ALL OTHER APPLICABLE STATUTES. A UTILITY OWNER AND/OR OPERATOR WHO FAILS TO RESPOND TO THE ENGINEERS SUBSURFACE UTILITY ENGINEERING NOTIFICATION AND/OR THE CONTRACTORS NOTIFICATION OF PLANNED EXCAVATION, MAY BE DEEMED RESPONSIBLE FOR DAMAGES TO UTILITIES. IN THE EVENT OF DAMAGE TO AN UNDERGROUND UTILITY FACILITY, THE EXCAVATOR, OWNER AND OPERATOR SHALL COORDINATE AND FOLLOW ALL APPLICABLE STATUTES TO MITIGATE THESE DAMAGES.
- THE CITY AND COUNTY OF DENVER AND THE ENGINEER OF RECORD WILL NOT BE RESPONSIBLE FOR ANY DAMAGES TO UTILITIES AND OR ANY OTHER DELAYS OR COST ASSOCIATED WITH DAMAGES TO UTILITIES.

[1] 1TTL 01

1 of 167

Print Date: 01/10/2024
File Name: 179224_TTL.dwg
Horiz. Scale: 1"=2000' Vert. Scale: N/A
Unit Information Unit Leader Initials
<b>Michael Baker</b> MICHAEL BAKER INTERNATIONAL 165 S. UNION BLVD., STE. 1000 LAKEWOOD, CO 80228 303.514.1100

Sheet Revisions		
Date:	Comments	Init.



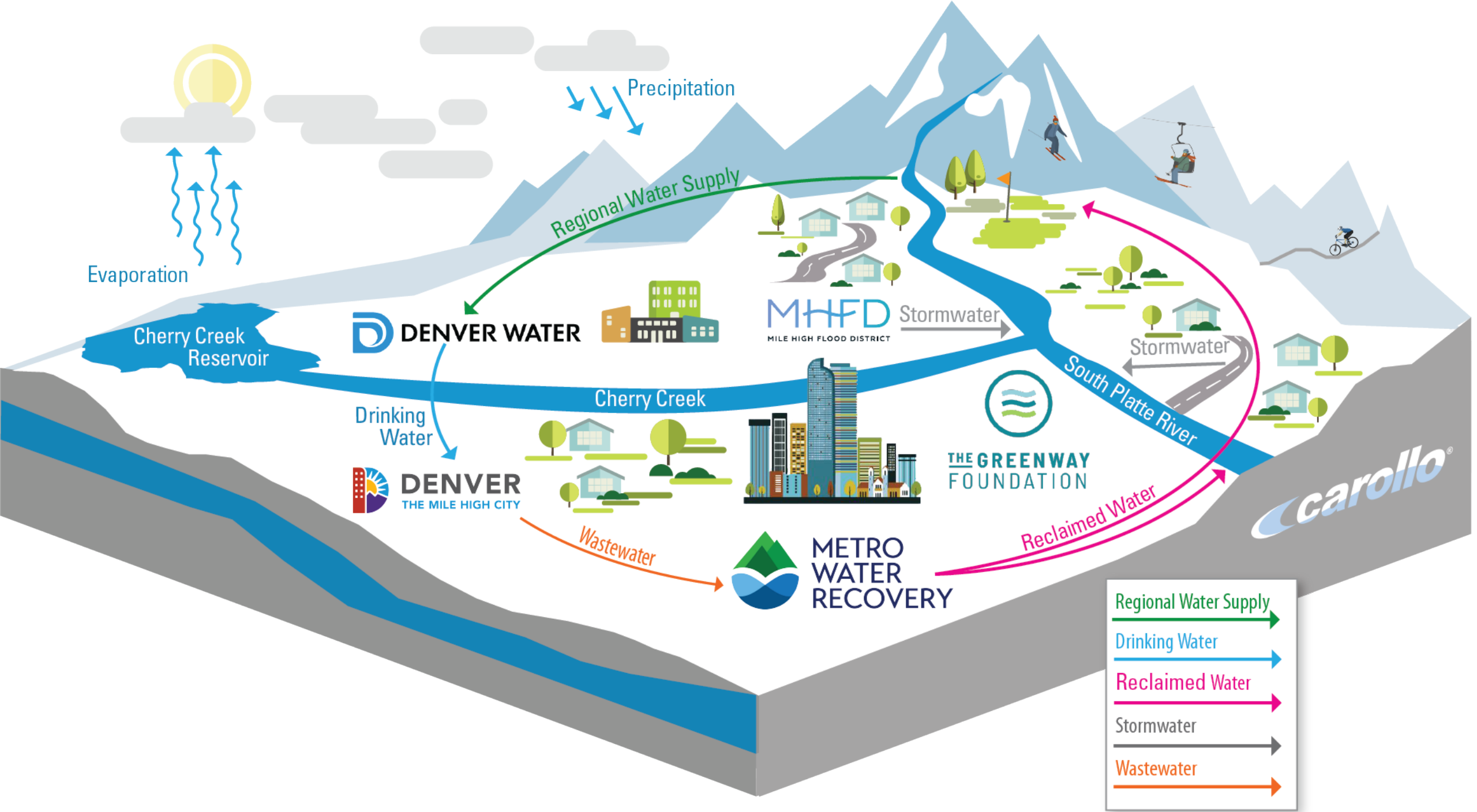
Mile High Flood District  
 12575 W. Bayaud Avenue  
 Lakewood, CO 80228  
 Ph: (303) 435-6277

<b>90% DESIGN</b>	
No. Revisions:	
Revised:	
Void:	

<b>WEIR GULCH - REACH W1 SOUTH PLATTE RIVER TO 8TH AVE TITLE SHEET</b>	
Designer:	EMK
Detailer:	JH
Sheet Subset:	GENERAL
Structure Numbers	
Subset Sheets:	1 OF 1

Project No./Code	107473
Sheet Number	1 OF 167





Evaporation

Precipitation

Regional Water Supply

Cherry Creek Reservoir

**DENVER WATER**

**MHFD** Stormwater  
MILE HIGH FLOOD DISTRICT

Stormwater

Drinking Water

Cherry Creek

**DENVER**  
THE MILE HIGH CITY

**THE GREENWAY FOUNDATION**

South Platte River

Wastewater

**METRO WATER RECOVERY**

Reclaimed Water

**carollo**

- Regional Water Supply
- Drinking Water
- Reclaimed Water
- Stormwater
- Wastewater

The logo for Mile High Flood District (MHFD) features the letters 'MHFD' in a light blue, sans-serif font. The 'H' is stylized with a horizontal bar connecting its two vertical stems.

MILE HIGH FLOOD DISTRICT



# MHFD Overview

David Bennetts - Director of Government Relations