



January 13, 2025

Haley B. Johansen, P.E.  
City Engineer  
Drainage Supervisor Development Review  
Aurora Water  
26791 E. Quincy Avenue  
Aurora, CO 80016

Preliminary Drainage Letter for Denver Expansion Project - 10-inch Pipeline

Dear Ms. Johansen,

This is the preliminary drainage letter as required by the Public Works submittal process for the referenced project. Construction plans for this project are included in this submittal. The preliminary drainage letter approval is required prior to civil plan approval.

The Denver Expansion Project (DXP) is a 10-inch pipeline approximately 22.2 miles transporting refined products. The segment that goes through the City of Aurora starts west of the intersection of E Colfax Ave and N Hudson Rd and ends west of the intersection of E 72<sup>nd</sup> Ave and N Watkins Rd. DXP 10-inch Pipeline Exhibits are included as **Attachment A** in this letter. The pipeline does cross through floodplains along its route. FEMA FIRM Panels 08001C0678J, 08005C0067L, 08005C0069L, 08005C0086L, 08005C0207K, and 0800460153H with the alignment are included as **Attachment B** in this letter. It is our understanding that work in the 100-year floodplain requires a Floodplain Development Permit which must be obtained prior to grading or construction with the floodplain.

Construction of the pipeline within the City of Aurora will be open trench installation with the exception of bores/HDDs at the crossings shown below.

Length (feet)	Location	Station
669	I-70 & Colfax	289+62 to 296+31
649	Railroad crossing north of I-70 & Colfax	304+30 to 310+79
111	Crossing E 26 <sup>th</sup> Ave and west N Hudson Rd	343+91 to 345+02
95	Private road west of N Hudson Rd	435+15 to 436+10
105	N Hudson Rd	462+96 to 464+01
119	South of E 56 <sup>th</sup> Ave	552+22 to 553+41
95	East of N Hudson Rd crossing E 56 <sup>th</sup> Ave	561+05 to 562+00
111	E 72 <sup>nd</sup> Ave	666+79 to 667+90

Upon completion of the pipeline construction, the ground surface will be returned to the existing grades resulting in no permanent change to the current drainage patterns in the construction corridor. There is no impervious area being proposed within the City of Aurora.

Please contact me at [julian.le@tetrattech.com](mailto:julian.le@tetrattech.com) or (303)705-0528 if there are any questions or you need additional information.

Sincerely,

Julian Le, P.E.  
Civil Engineer  
Tetra Tech Rooney



## **Attachment A**

Vicinity Map and Inset Exhibits

DXP 10" PIPELINE VICINITY MAP - CITY OF AURORA

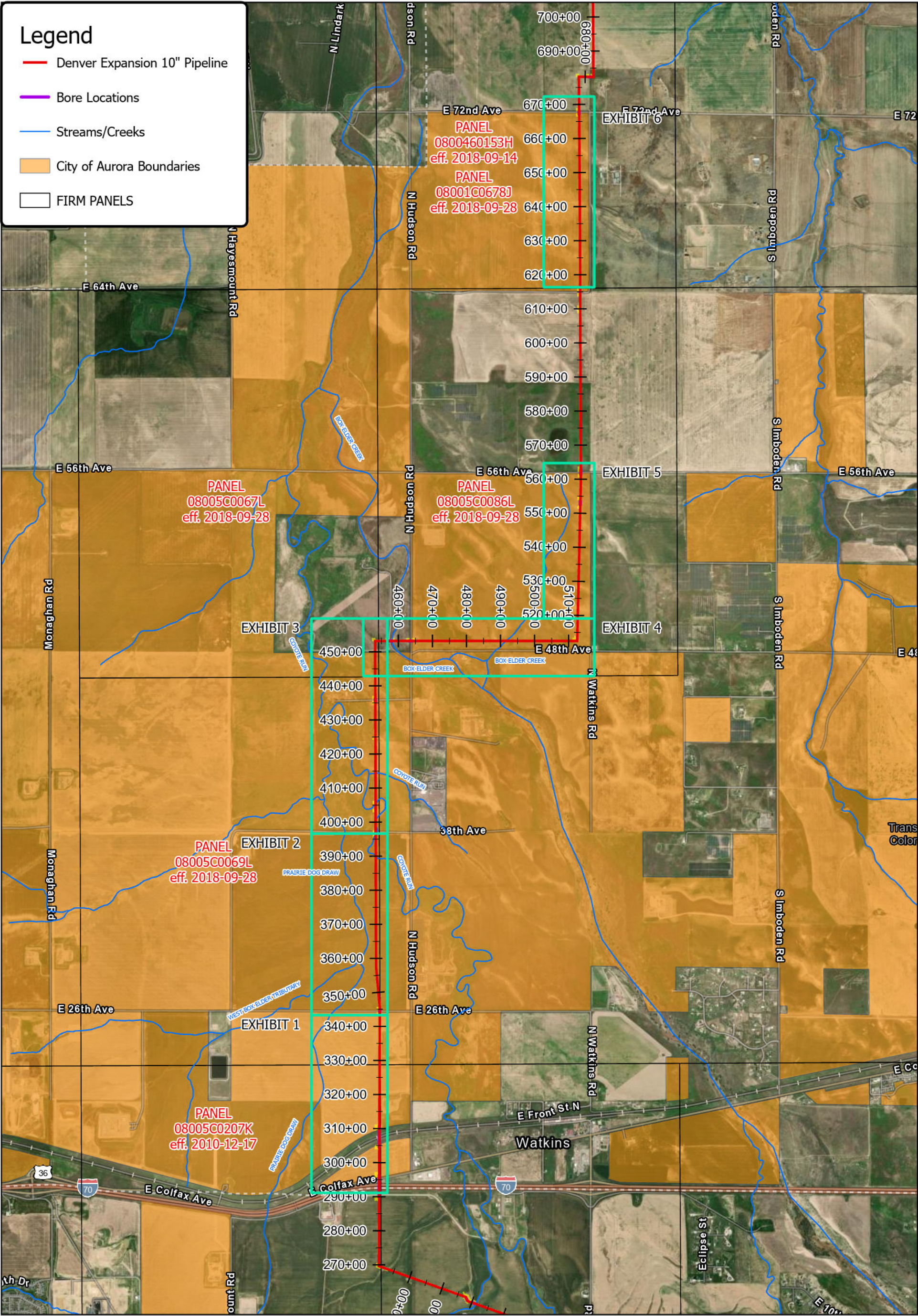
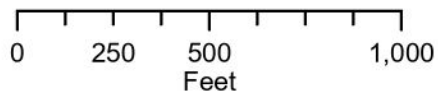
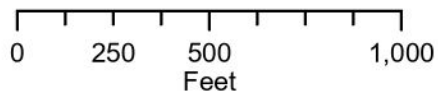
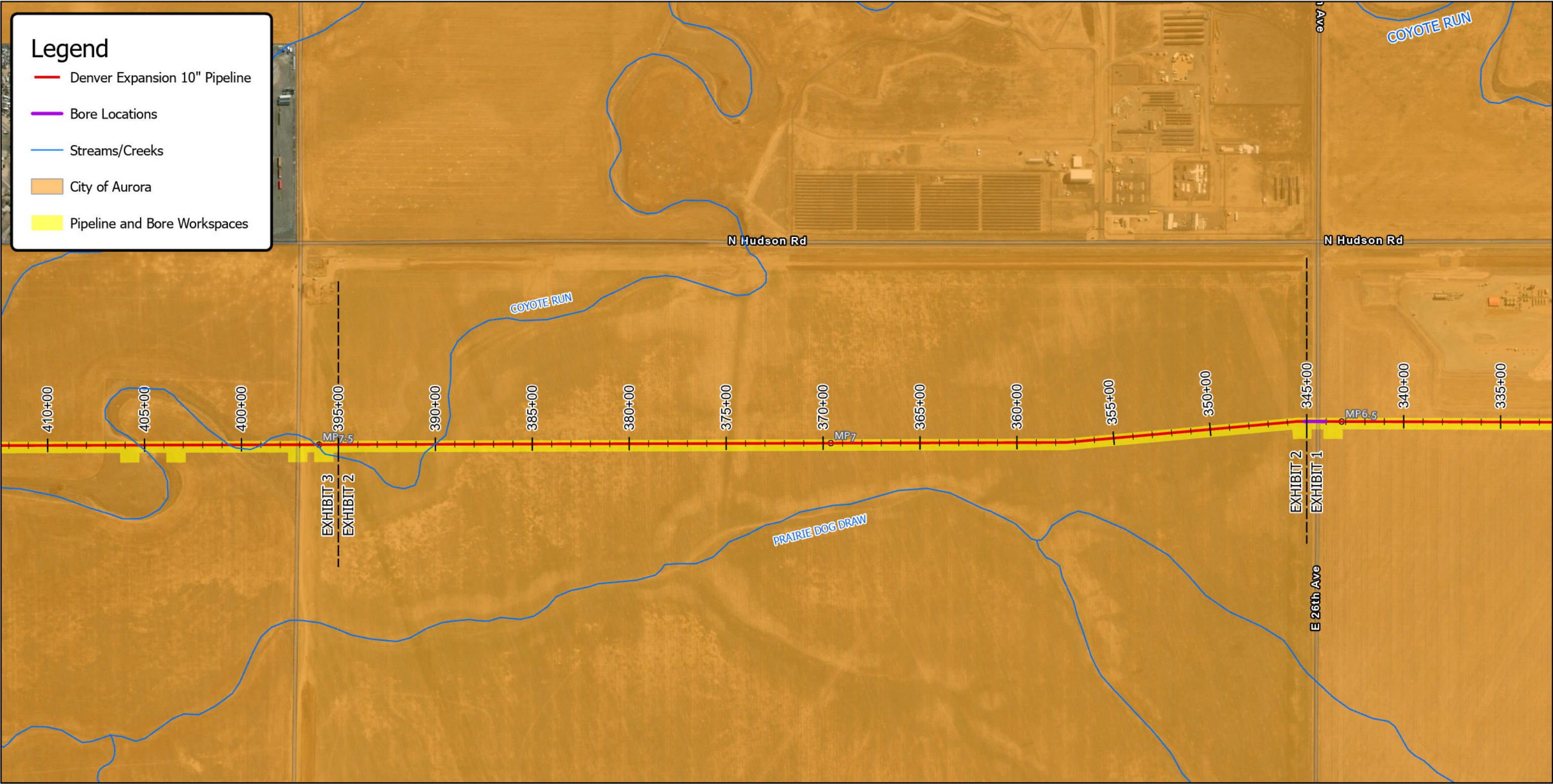


EXHIBIT 1 - CITY OF AURORA  
DXP 10" PIPELINE STATIONS 295+00 TO 345+00



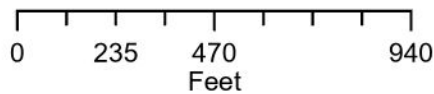
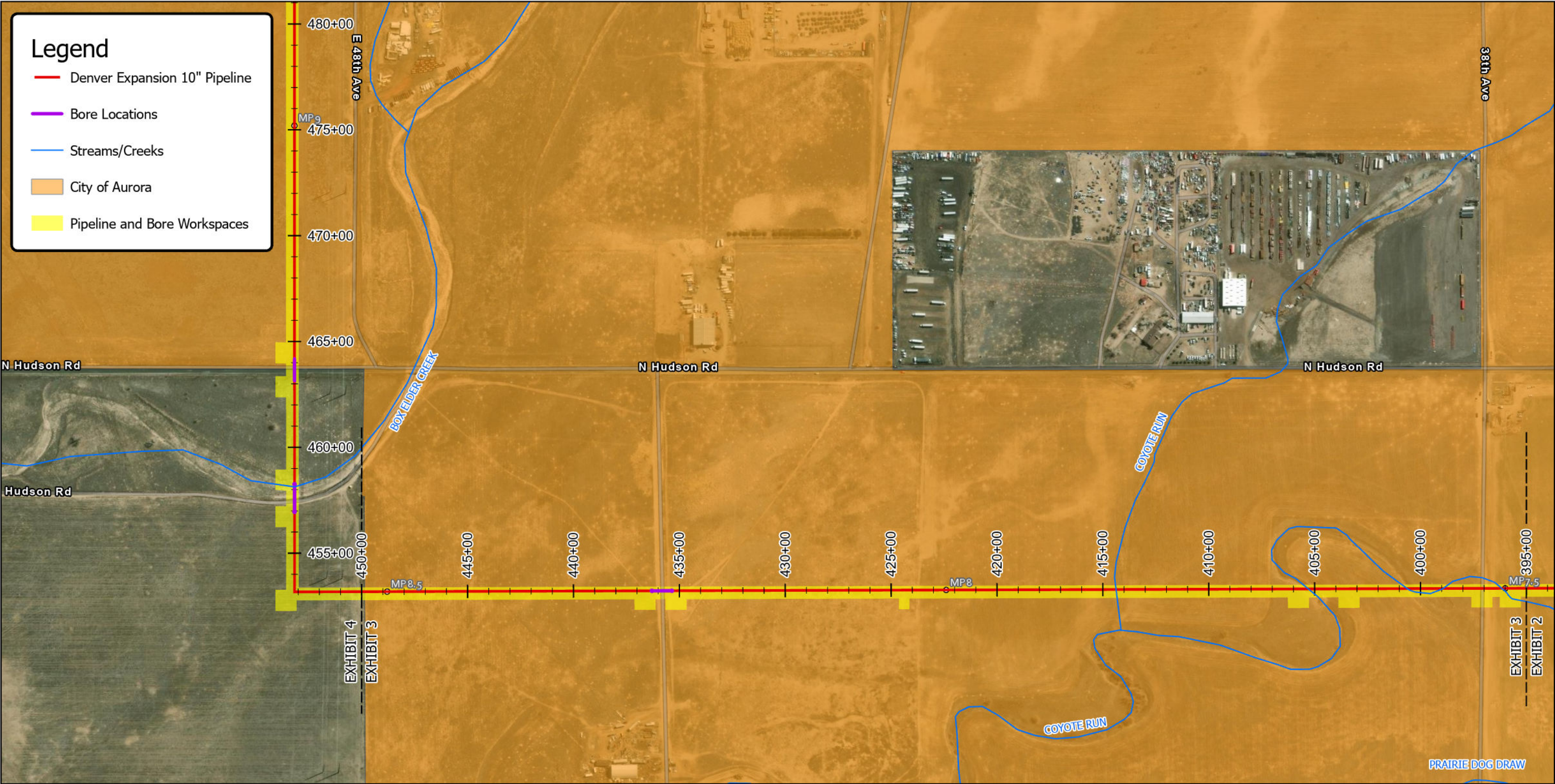
ACREAGE OF WORKSPACE WITHIN CITY OF AURORA AND EXHIBIT 1: 7.42 ACRES

EXHIBIT 2 - CITY OF AURORA  
DXP 10" PIPELINE STATIONS 345+00 TO 395+00



ACREAGE OF WORKSPACE WITHIN CITY OF AURORA AND EXHIBIT 2: 6.97 ACRES

EXHIBIT 3 - CITY OF AURORA  
DXP 10" PIPELINE STATIONS 395+00 TO 450+00



ACREAGE OF WORKSPACE WITHIN CITY OF AURORA AND EXHIBIT 3: 8.30 ACRES

EXHIBIT 4 - CITY OF AURORA  
DXP 10" PIPELINE STATIONS 450+00 TO 515+00

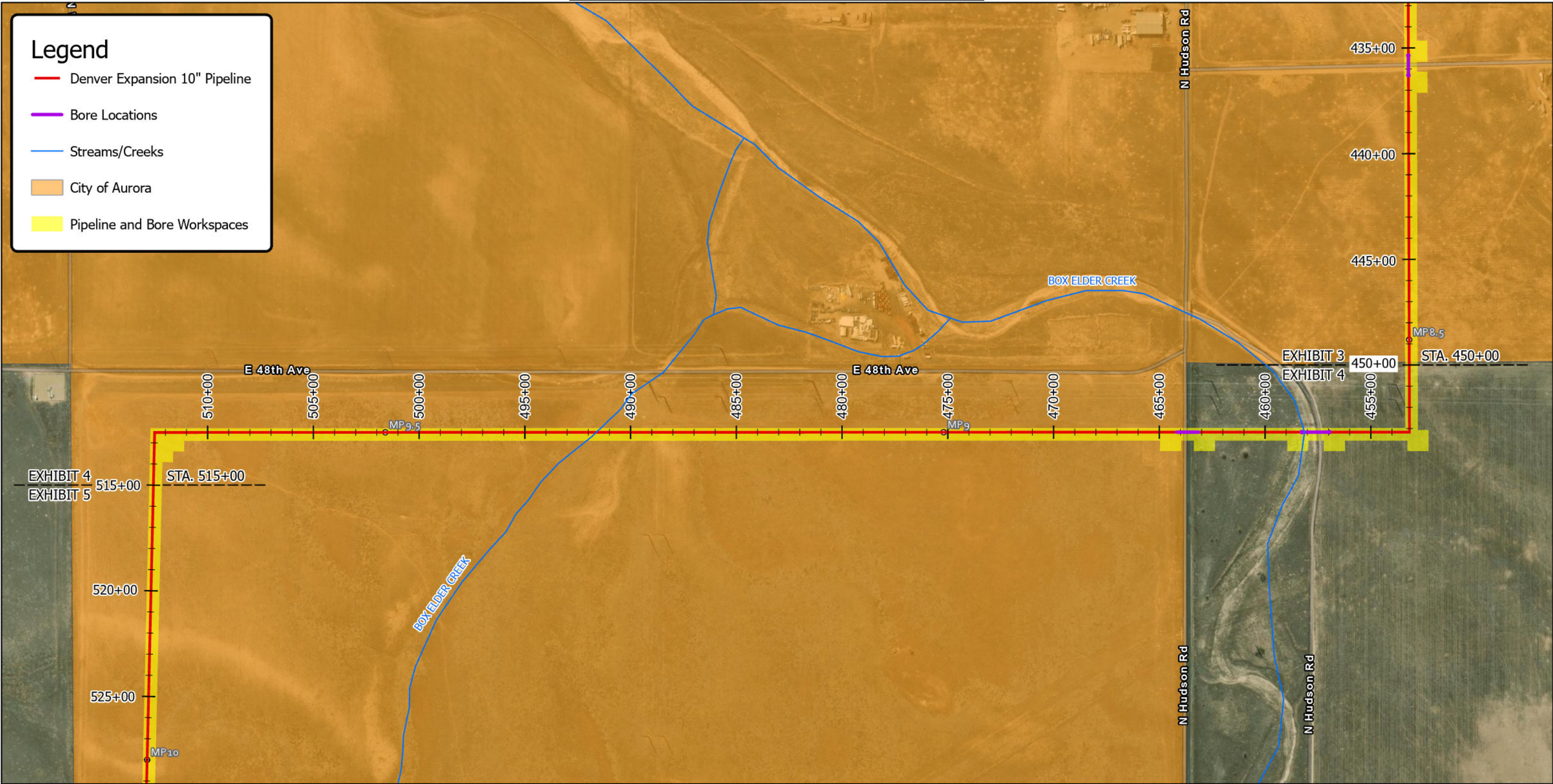


EXHIBIT 5 - CITY OF AURORA  
DXP 10" PIPELINE STATIONS 515+00 TO 565+00

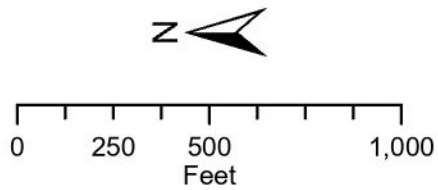
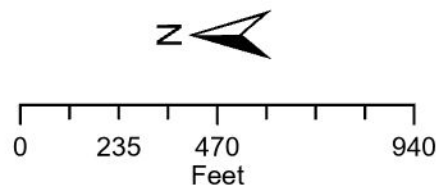


EXHIBIT 6 - CITY OF AURORA  
DXP 10" PIPELINE STATIONS 615+00 TO 670+00



**Attachment B**

FEMA FIRM Panels 08001C0678J, 08005C0067L, 08005C0069L, 08005C0086L, 08005C0207K, and  
0800460153H

## NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

**Coastal Base Flood Elevations** shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 13. The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services  
NOAA, NNGS12  
National Geodetic Survey  
SSMC-3, #9202  
1315 East-West Highway  
Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov/>.

**Base map** information shown on this FIRM was provided by the Arapahoe County and Cities of Aurora and Littleton GIS departments. The coordinate system used for production of the digital FIRM is Universal Transverse Mercator, Zone 13N, referenced to the North American Datum of 1983 and the GRS 80 spheroid, Western Hemisphere.

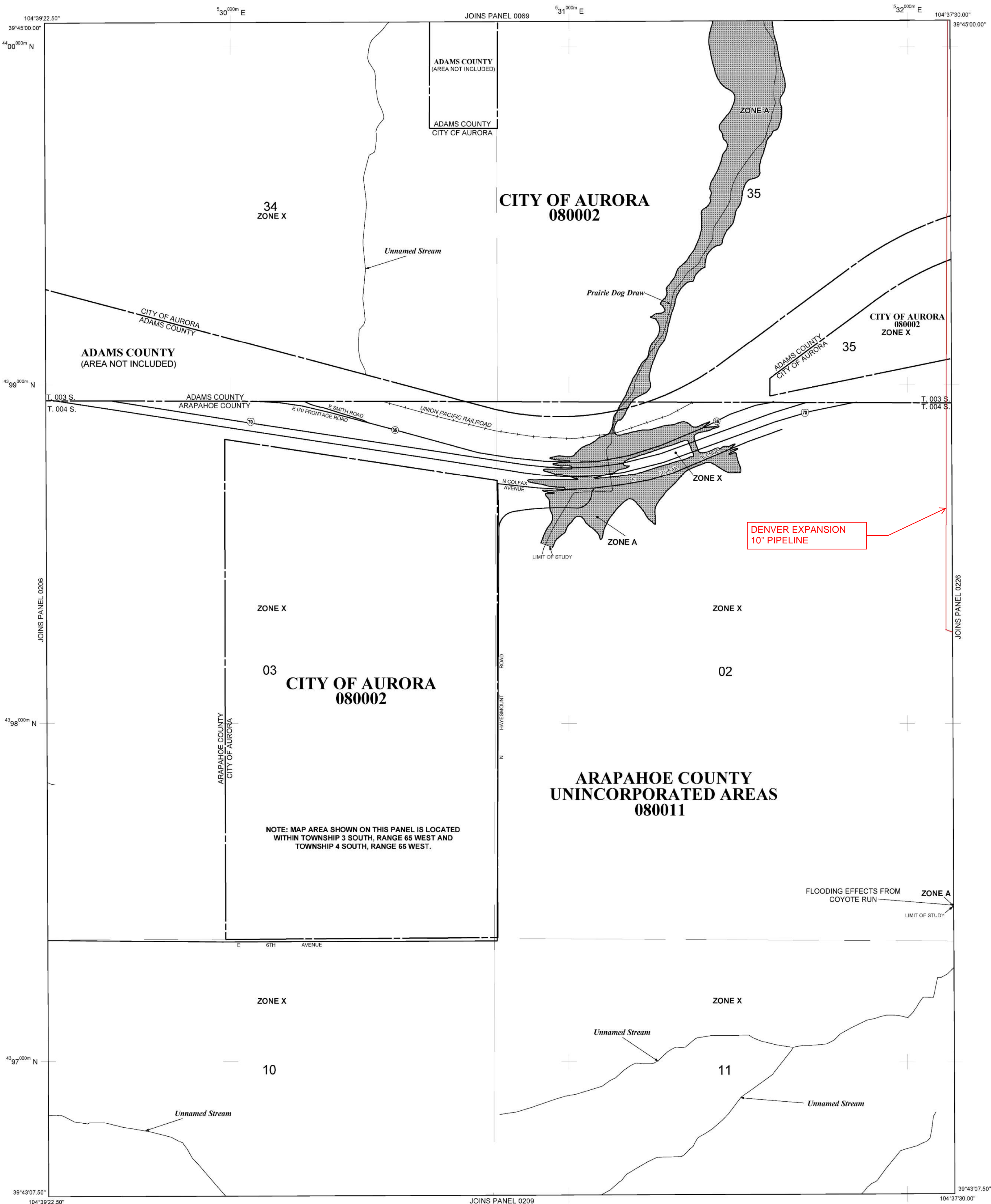
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the *Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

**Corporate limits** shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a *Flood Insurance Study report*, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov/>.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/>.



## LEGEND

### SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

### FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

### OTHER FLOOD AREAS

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

### OTHER AREAS

- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.

### COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

### OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- Floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet\* (EL 667)
- Base Flood Elevation value where uniform within zone; elevation in feet\*

\* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

- Cross section line
- Transsect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 1000-meter Universal Transverse Mercator grid ticks, zone 13
- 5000-foot grid ticks: New York State Plane coordinate system, east zone (FIPSZONE 3101), Transverse Mercator
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile

MAP REPOSITORIES  
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP  
April 17, 1989  
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL  
March 4, 1991 December 3, 1995 August 16, 1995  
December 17, 2010 - to update map format, to change Special Flood Hazard Areas, and to change Base Flood Elevations.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

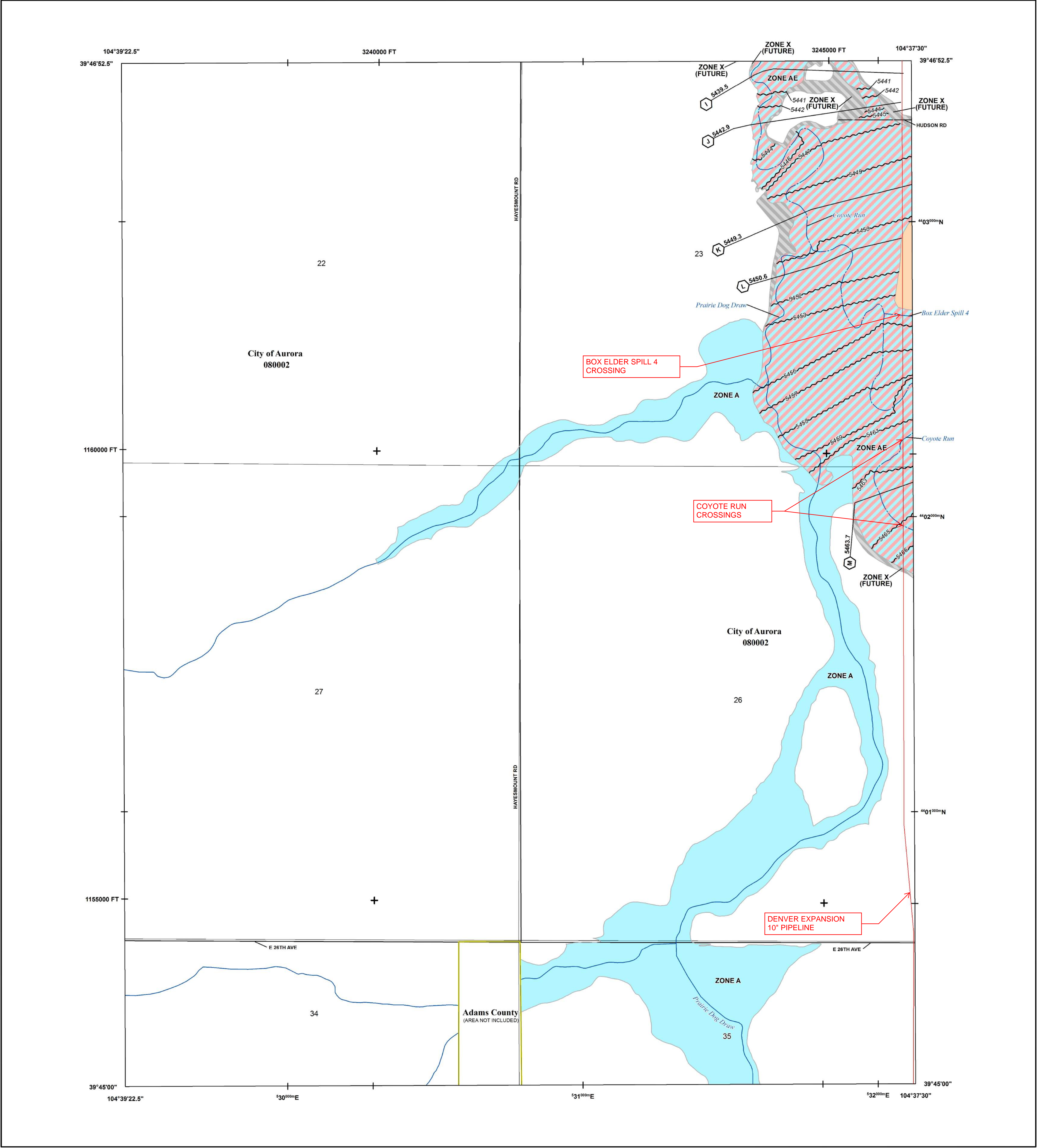
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-9620.



MAP SCALE 1" = 500'  
250 0 500 1000 FEET  
150 0 150 300 METERS

NFIP  
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0207K  
**FIRM**  
FLOOD INSURANCE RATE MAP  
ARAPAHOE COUNTY,  
COLORADO  
AND INCORPORATED AREAS  
  
PANEL 207 OF 725  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)  
CONTAINS:  
COMMUNITY NUMBER PANEL SUFFIX  
ARAPAHOE COUNTY 080011 0207 K  
AURORA, CITY OF 080002 0207 K  
  
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.  
  
MAP NUMBER  
08005C0207K  
MAP REVISED  
DECEMBER 17, 2010  
Federal Emergency Management Agency



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT  
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SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes Zone X
OTHER AREAS		NO SCREEN Areas of Minimal Flood Hazard Zone X
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert or Storm Sewer
		Levee, Dike or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

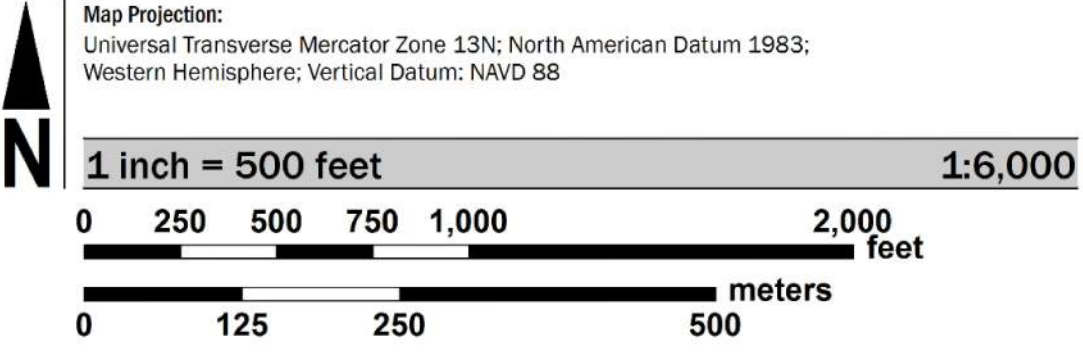
Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

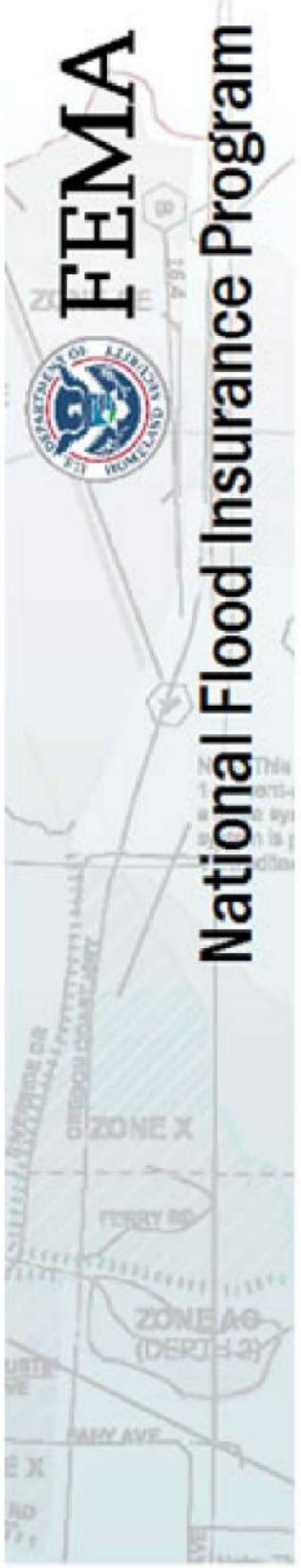
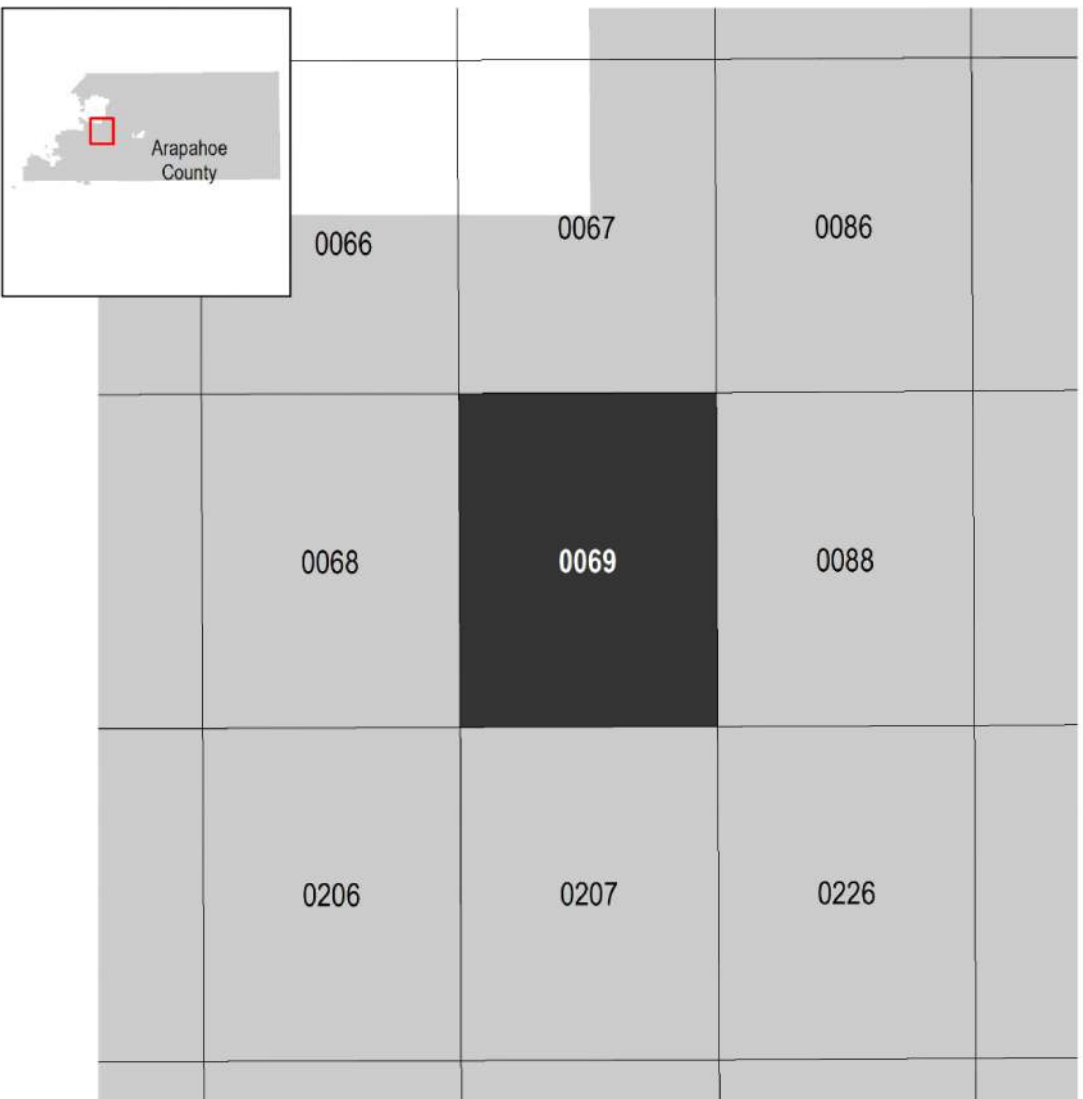
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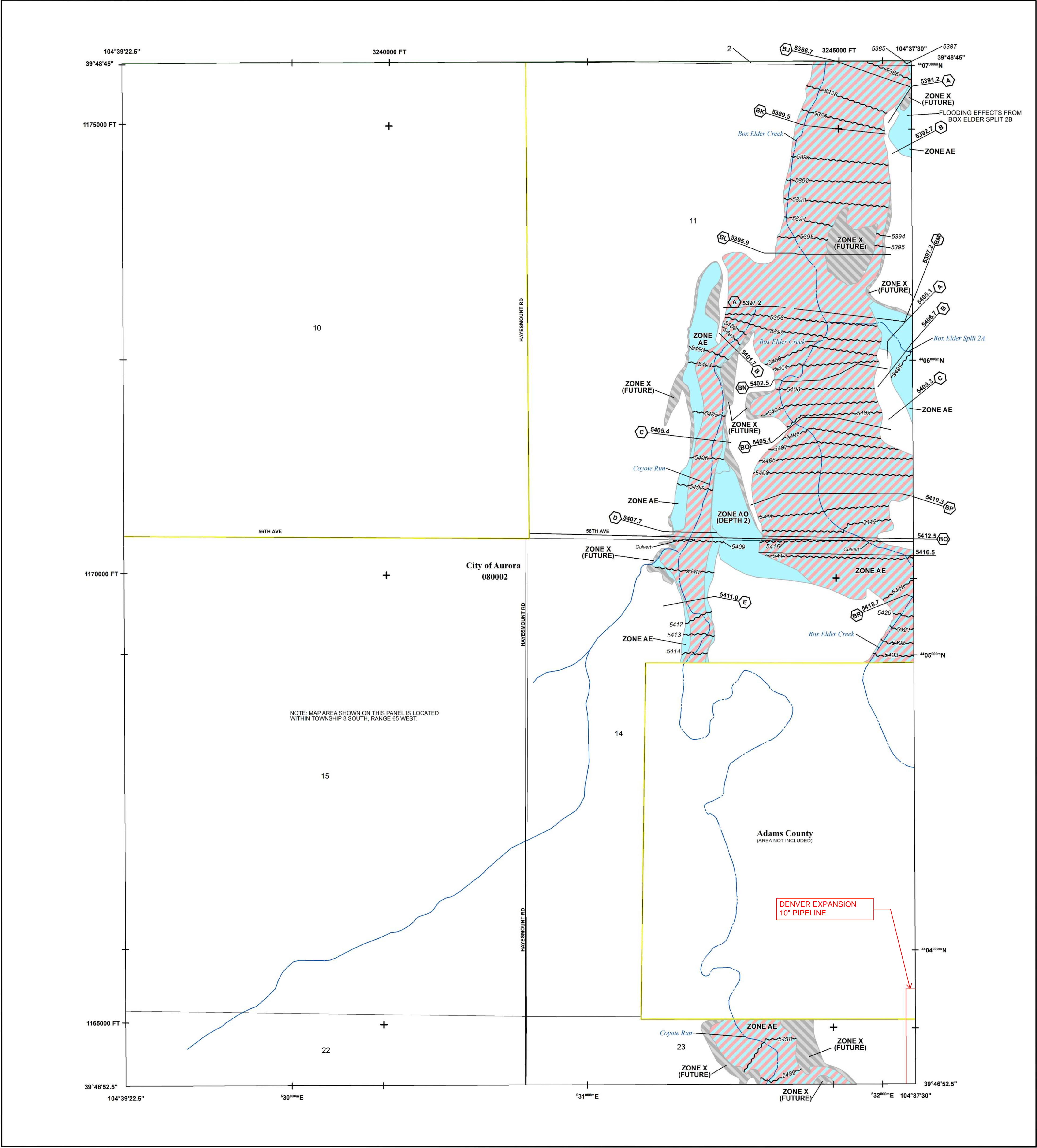
SCALE



PANEL LOCATOR



**NATIONAL FLOOD INSURANCE PROGRAM**  
FLOOD INSURANCE RATE MAP  
**ARAPAOHE COUNTY, COLORADO**  
and Incorporated Areas  
PANEL 69 OF 725  
Panel Contains:  
COMMUNITY AURORA, CITY OF  
NUMBER 080002  
SUFFIX 0069 L  
VERSION NUMBER 2.3.3.0  
MAP NUMBER 08005C0069L  
MAP REVISED SEPTEMBER 28, 2018



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT  
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[HTTP://MSC.FEMA.GOV](http://msc.fema.gov)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
OTHER AREAS		Area with Reduced Flood Risk due to Levee See Notes Zone X
		NO SCREEN Areas of Minimal Flood Hazard Zone X Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert or Storm Sewer
		Levee, Dike or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

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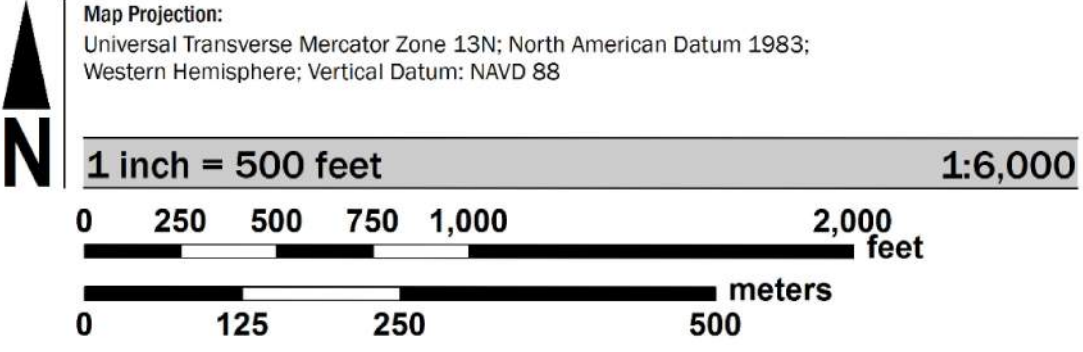
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For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

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SCALE



PANEL LOCATOR



**National Flood Insurance Program**

**NATIONAL FLOOD INSURANCE PROGRAM**  
FLOOD INSURANCE RATE MAP

**ARAPAHOE COUNTY, COLORADO**  
and Incorporated Areas

PANEL 67 OF 725

Panel Contains:  
COMMUNITY  
AURORA, CITY OF

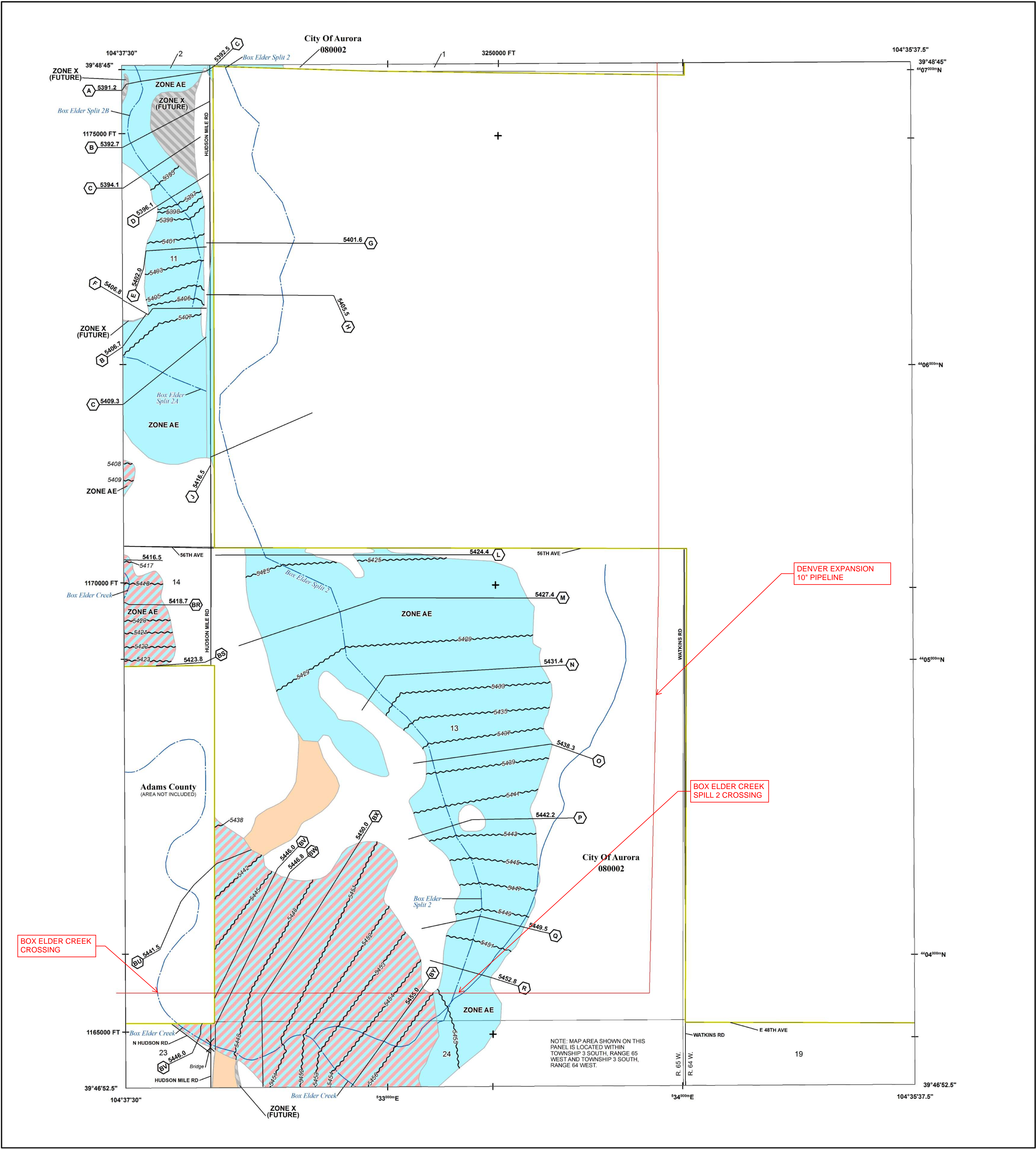
NUMBER  
080002

SUFFIX  
0067 L

VERSION NUMBER  
2.3.3.0

MAP NUMBER  
08005C0067L

MAP REVISED  
SEPTEMBER 28, 2018



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT  
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTP://MSC.FEMA.GOV](http://msc.fema.gov)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
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		Hydrographic Feature
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

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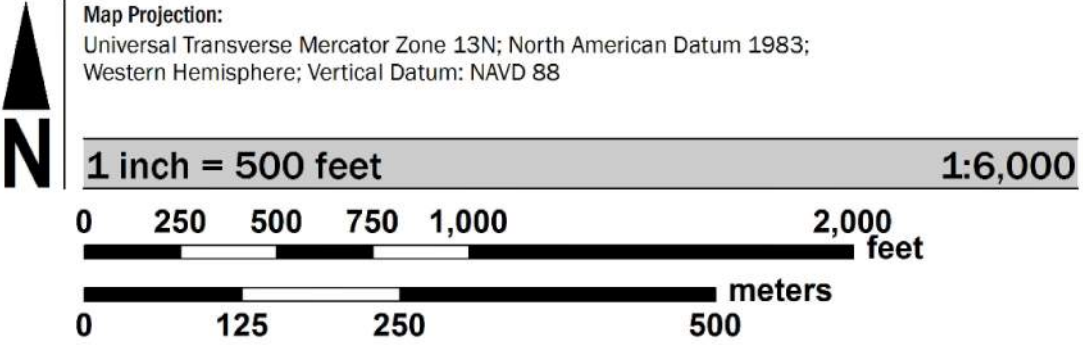
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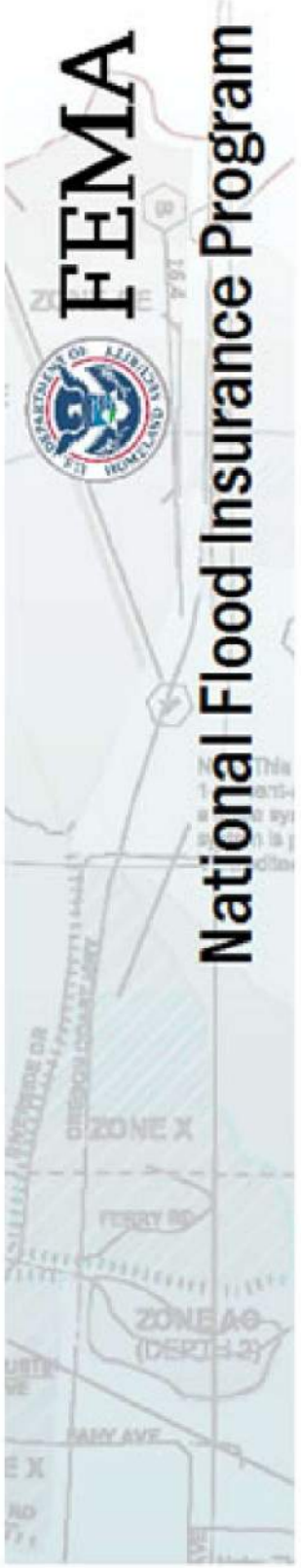
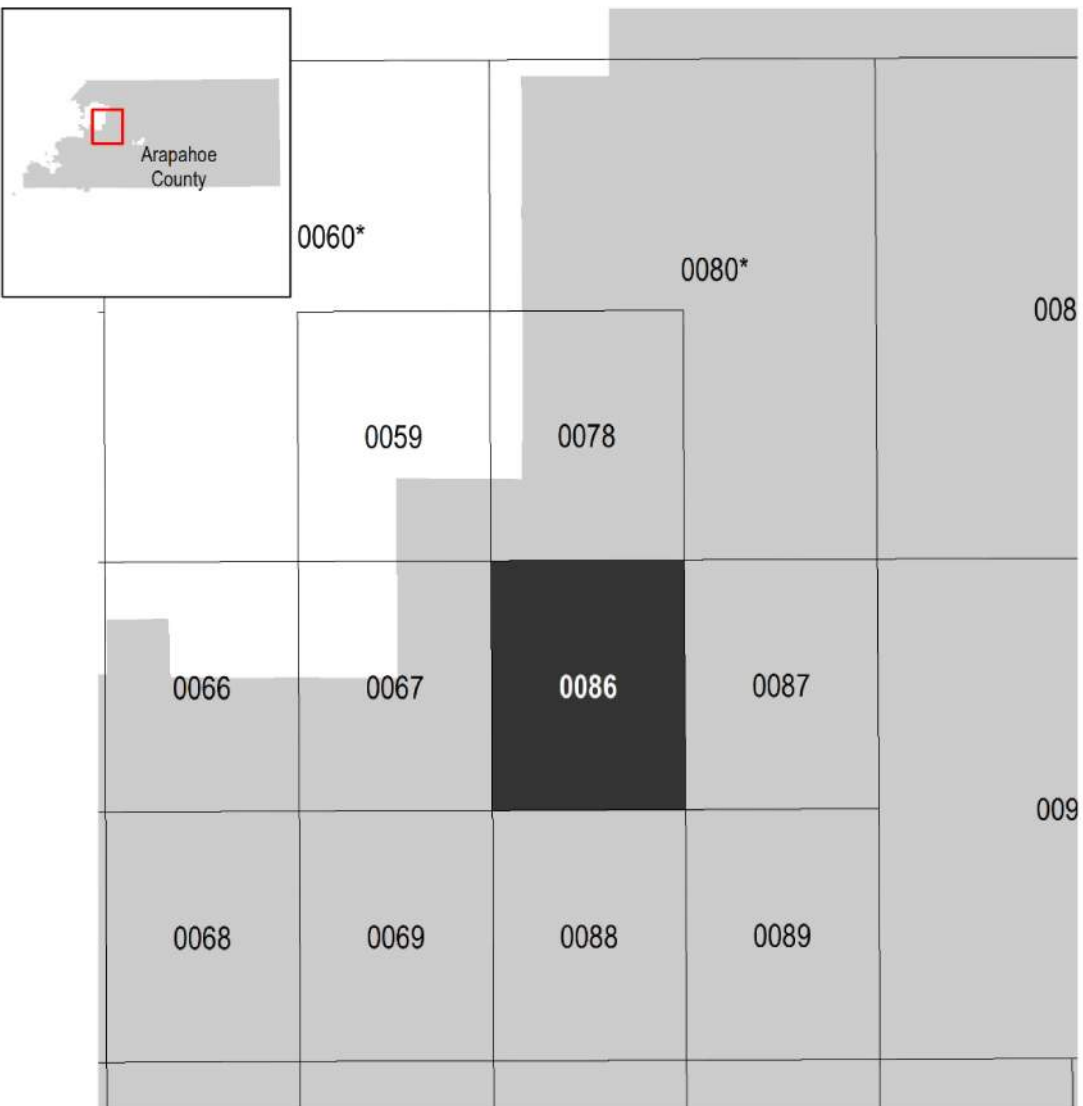
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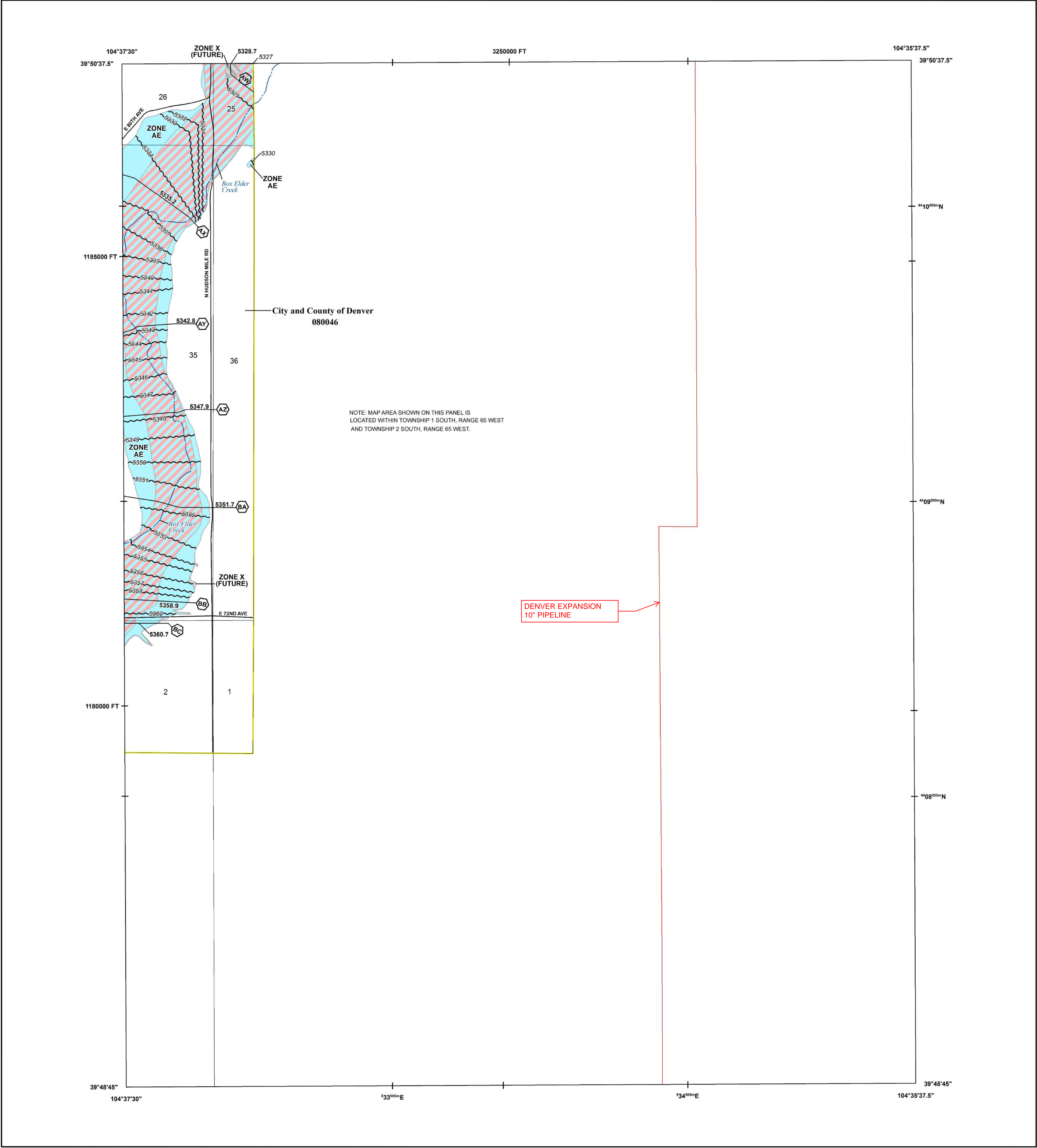
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PANEL LOCATOR



**NATIONAL FLOOD INSURANCE PROGRAM**  
FLOOD INSURANCE RATE MAP  
**ARAPAHOE COUNTY, COLORADO**  
and Incorporated Areas  
PANEL 86 OF 725  
Panel Contains:  
COMMUNITY AURORA, CITY OF  
NUMBER 080002  
SUFFIX 0086 L



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		Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

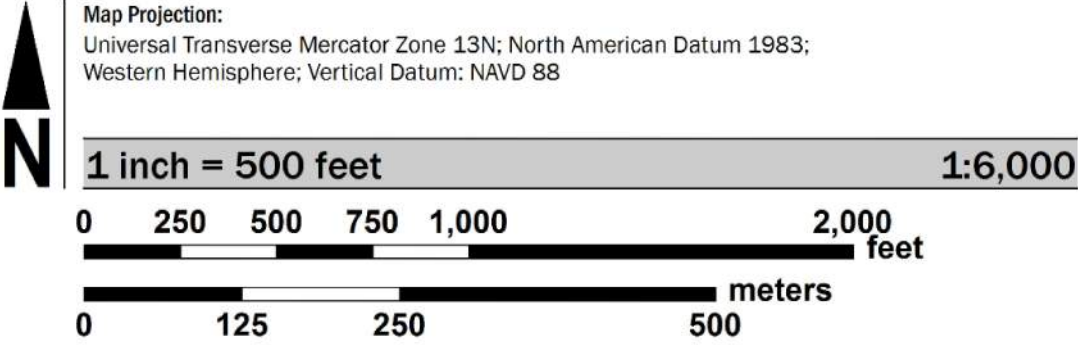
Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by the City and County of Denver, Department of Public Works Geographic Information Systems (GIS) Division dated 2015.

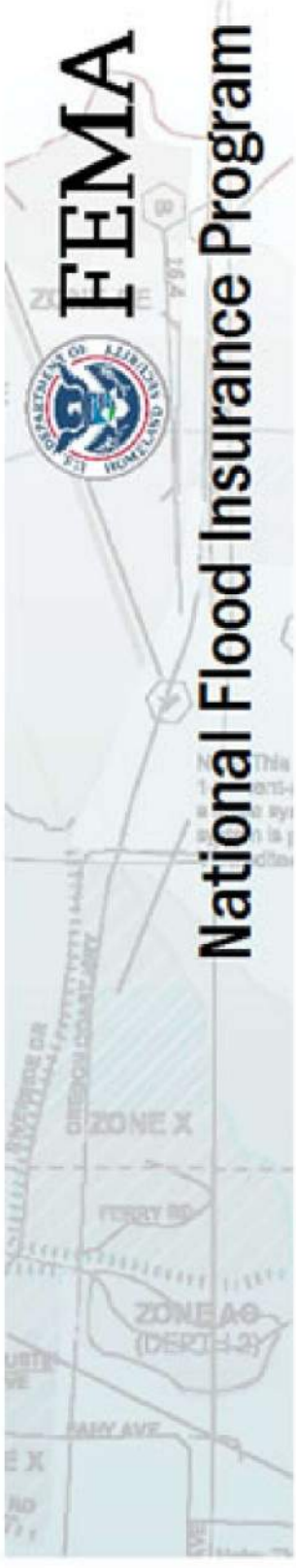
SCALE



PANEL LOCATOR



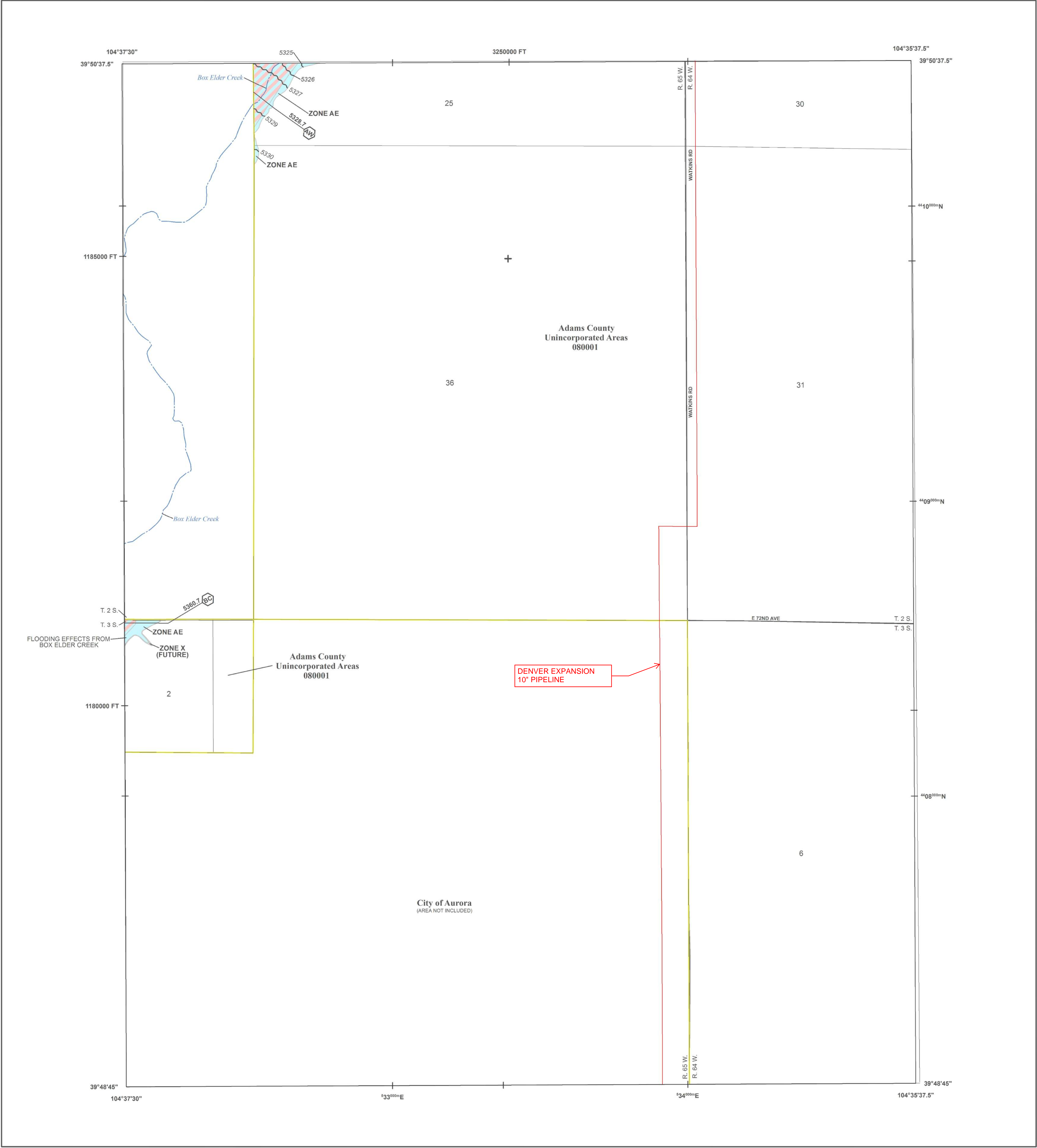
\*PANEL NOT PRINTED



**NATIONAL FLOOD INSURANCE PROGRAM**  
FLOOD INSURANCE RATE MAP  
**CITY AND COUNTY OF DENVER, COLORADO**  
PANEL 153 OF 300

Panel Contains:  
COMMUNITY DENVER, CITY AND COUNTY OF  
NUMBER 080046  
SUFFIX 0153 H

VERSION NUMBER 2.3.3.0  
MAP NUMBER 0800460153H  
MAP REVISED SEPTEMBER 14, 2018



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT  
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTP://MSC.FEMA.GOV](http://msc.fema.gov)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes Zone X
OTHER AREAS		NO SCREEN Areas of Minimal Flood Hazard Zone X
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert or Storm Sewer
		Levee, Dike or Floodwall
OTHER FEATURES		18.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		513 Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

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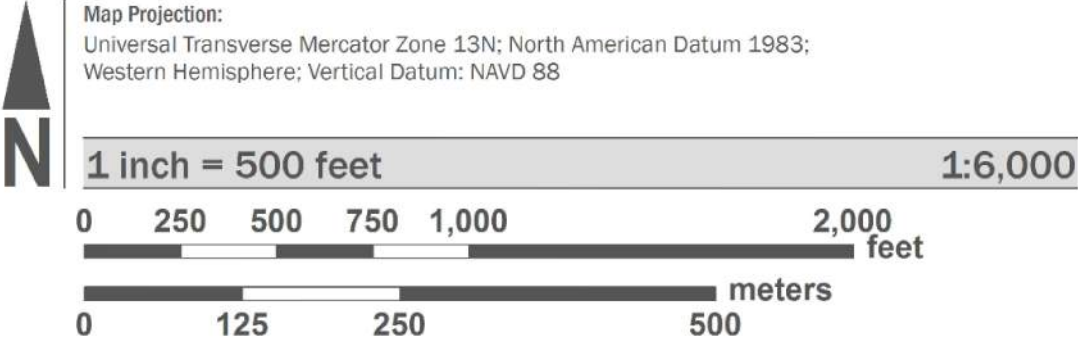
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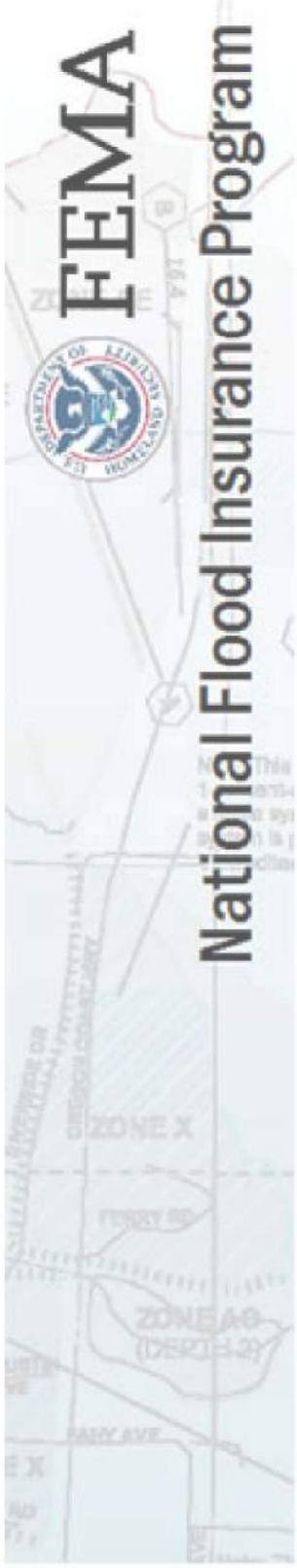
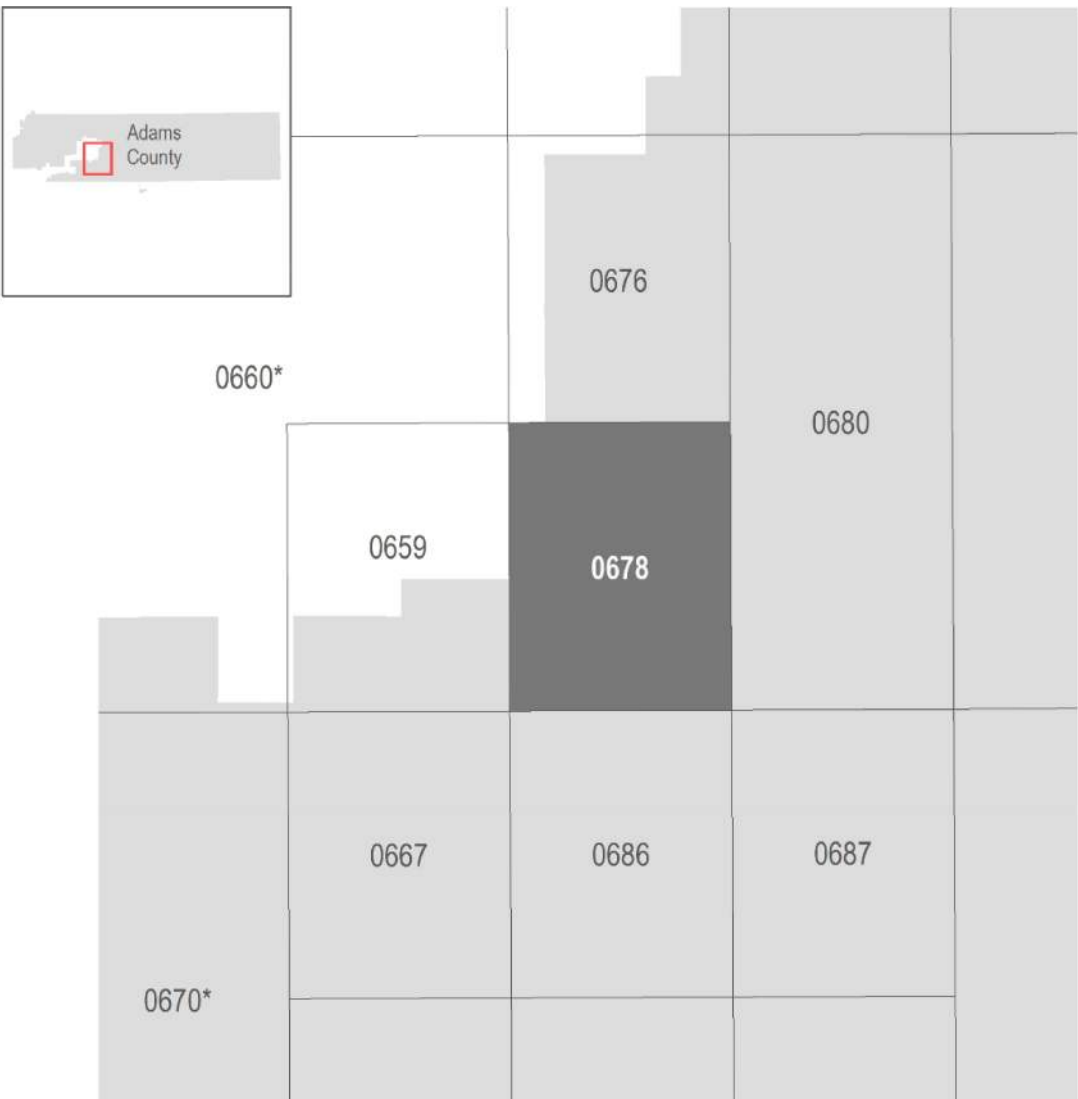
To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by the Adams County GIS Department.

SCALE



PANEL LOCATOR



**NATIONAL FLOOD INSURANCE PROGRAM**  
FLOOD INSURANCE RATE MAP  
**ADAMS COUNTY, COLORADO**  
and Incorporated Areas  
PANEL 678 OF 1150

Panel Contains:  
COMMUNITY ADAMS COUNTY  
NUMBER 080001  
PANEL 0678  
SUFFIX J