



Board of County Commissioners

Eva J. Henry - District #1
Charles "Chaz" Tedesco - District #2
Emma Pinter - District #3
Steve O'Dorisio - District #4
Mary Hodge - District #5

PUBLIC HEARING AGENDA

NOTICE TO READERS: The Board of County Commissioners' meeting packets are prepared several days prior to the meeting. This information is reviewed and studied by the Board members to gain a basic understanding, thus eliminating lengthy discussions. Timely action and short discussion on agenda items does not reflect a lack of thought or analysis on the Board's part. An informational packet is available for public inspection in the Board's Office one day prior to the meeting.

THIS AGENDA IS SUBJECT TO CHANGE

Tuesday
November 10, 2020
9:30 AM

Watch the virtual meeting through our You Tube Channel
<https://www.youtube.com/channel/UC7KDbF1XykrYlxnfhEH5XVA>

1. ROLL CALL

2. PLEDGE OF ALLEGIANCE

3. MOTION TO APPROVE AGENDA

4. AWARDS AND PRESENTATIONS

- A. Proclamation of November 11, 2020 as Veterans Day
- B. Proclamation of November 20, 2020 as National Adoption Day

5. PUBLIC COMMENT

A. Citizen Communication

Members of the public may submit written comments on any matter within the Board's subject matter jurisdiction or request to speak at the meeting through our eComment system at <https://adcogov.legistar.com/Calendar.aspx>

Residents are encouraged to submit comments, prior to the meeting, through written comment using eComment; eComment is integrated with the published meeting agenda and individuals may review the agenda item details and indicate their position on each item. A request to speak at the meeting may also be submitted using the eComment feature. You will be prompted to set up a user profile to allow you to comment, which will become part of the official public record. The eComment period opens when the agenda is published and closes at 4:30 p.m. the Monday prior to the noticed meeting.

6. CONSENT CALENDAR

- A. List of Expenditures Under the Dates of October 19-23, 2020
- B. Minutes of the Commissioners' Proceedings from October 27, 2020
- C. Resolution Setting Forth the Final Decisions of the Adams County Board of Equalization for Tax Year 2020
(File approved by ELT)
- D. Resolution for Final Acceptance of the Public Improvements Constructed at the Sherrelwood Village Subdivision, (Case No's. PRC2016-00008, PLT2016-00022, PUD2016-00014, EGR2016-00025, SIA2018-00011, SUB2018-00010)
(File approved by ELT)
- E. Resolution Approving the Adams County Hazard Mitigation Plan
(File approved by ELT)
- F. Resolution Regarding Defense and Indemnification of Curtis Garth and Brandon Neel as Defendants Pursuant to C.R.S. § 24-10-101, Et Seq.
(File approved by ELT)
- G. Resolution Approving Development Agreement between Adams County and P8 D-C Industrial Last Mile, LLC
(File approved by ELT)
- H. Resolution Approving Abatement Petitions and Authorizing the Refund of Taxes for Account Numbers R0030728, R0011801, R0184703, P0034084, P0036164, and P0034702
(File approved by ELT)
- I. Resolution Approving Right-of-Way Agreement between Adams County and Maria Soto and Edgar Enrique Soto for Property Necessary for the Miscellaneous Concrete and ADA Ramps Project
(File approved by ELT)
- J. Resolution Approving Right-of-Way Agreement between Adams County and Mt. Zion Lutheran Church for Property Necessary for the Miscellaneous Concrete and ADA Ramps Project
(File approved by ELT)
- K. Resolution Approving Right-of-Way Agreement between Adams County and Classic II Holdings, LLC for Property Necessary for the East 58th Avenue Improvements Project - East 58th from Clarkson Street to York Street
(File approved by ELT)
- L. Resolution Approving Amendment 2 to an Intergovernmental Agreement between Adams County and Mapleton Public Schools Regarding Disbursement of Coronavirus Aid, Relief and Economic Security Act Funds
(File approved by ELT)
- M. Resolution Approving Lease Agreement between Westminster Public Schools and Adams County for Head Start Program Facilities at 8401 Circle Drive, Westminster, Colorado
(File approved by ELT)
- N. Resolution Approving Hyland Hills Facility and Recreation District Facility Usage Agreement - Amendment 1 between Adams County and Hyland Hills Park and Recreation District for a Public COVID-19 Testing Site
(File approved by ELT)

- O.** Resolution Approving License Agreement for COVID-19 Testing at Parking Lot of 7190 Colorado Boulevard with South Platte Crossing Condominium Association
(File approved by ELT)
- P.** Resolution Approving Ambulance Service License for Platte Valley Ambulance Service
(File approved by ELT)
- Q.** Resolution Approving Ambulance Service License for Strasburg Fire Protection District #8
(File approved by ELT)
- R.** Resolution Approving Ambulance Service License for Western Ambulance, Inc.
(File approved by ELT)
- S.** Resolution Approving Amendment 2 to an Intergovernmental Agreement between Adams County and Strasburg 31J Regarding Disbursement of Coronavirus Aid, Relief, and Economic Security Act Funds
(File approved by ELT)
- T.** Resolution Approving Agreement between the Board of County Commissioners of the County of Adams and Salud Family Health Centers Regarding Disbursement of Coronavirus Aid, Relief and Economic Security Act Funds
(File approved by ELT)
- U.** Resolution Approving Amendment 1 to an Agreement between Adams County and Village Exchange Center Regarding Disbursement of Coronavirus Aid, Relief, and Economic Security Act Funds
(File approved by ELT)
- V.** Resolution to Amend Resolution Appointing Brent Voge to the Adams County Retirement Board
(File approved by ELT)
- W.** Resolution to Amend Resolution Appointing Clint Nichols to the E-911 Authority as a Law Enforcement Representative
(File approved by ELT)
- X.** Resolution to Amend Resolution Appointing Dave Ramos to the E-911 Authority as a Fire Protection Representative
(File approved by ELT)
- Y.** Resolution Approving Amendment 1 to an Intergovernmental Agreement between Adams County and Maiker Housing Partners Regarding the Disbursement of Coronavirus Aid, Relief, and Economic Security Act Funds
(File approved by ELT)
- Z.** Resolution Approving Amendment 2 to an Intergovernmental Agreement between Adams County and Maiker Housing Partners Regarding Disbursement of Coronavirus Aid, Relief and Economic Security Act Funds
(File approved by ELT)

7. NEW BUSINESS

A. COUNTY MANAGER

- 1.** Resolution Approving Task Order Seven between Adams County and Jviation, Inc., to Provide Consultant and Engineering Services for Colorado Air and Space Port
(File approved by ELT)

2. Resolution Approving Amendment Two between Adams County and Jviation, Inc., to Provide Consultant and Engineering Services
(File approved by ELT)
3. Resolution Approving an Agreement with AVP Translations LLC for Translation Services
(File approved by ELT)
4. Resolution Approving an Agreement with HolaDoctor, Inc., for Translation Services
(File approved by ELT)
5. Resolution Approving an Agreement between Adams County and Tri-County Health Department for the Nurse Support Program for Early Childhood Services
(File approved by ELT)
6. Resolution Approving an Agreement between Adams County and MW Golden Constructors for the South Platte Crossing Building Renovation Project
(File approved by ELT)
7. Resolution Approving Amendment Two to Agreement between Adams County and Roth Sheppard Architects, LLP, for Additional Design Services for the Coroner's Facility Improvements
(File approved by ELT)

B. COUNTY ATTORNEY

8. Motion to Adjourn into Executive Session Pursuant to C.R.S. 24-6-402(4)(b) and (e) for the Purpose of Receiving Legal Advice and Instructing Negotiators Regarding DIA Litigation

9. LAND USE HEARINGS

A. Cases to be Heard

1. PRC2019-00020 Brannan Sand & Gravel
(File approved by ELT)
2. VAC2020-00001 Eberhard Roadway Vacation
(File approved by ELT)

10. ADJOURNMENT

AND SUCH OTHER MATTERS OF PUBLIC BUSINESS WHICH MAY ARISE

**Proclamation
“Veterans Day”
November 11, 2020**

WHEREAS, the contributions and sacrifices of the men and women who served in the Armed Forces have been vital in maintaining our freedoms and way of life; and

WHEREAS, tens of millions of Americans have served in the Armed Forces of the United States during the past century; and

WHEREAS, hundreds of thousands of Americans have given their lives while serving in the Armed Forces during the past century; and

WHEREAS, our county is home to more than 28,000 veterans, 2,000 Active Duty military, 1,700 National Guard and Reservists, and their families; and

WHEREAS, our veterans are brave and selfless individuals who, when duty called, willingly put themselves in harm's way to defend the lives and liberty of others; and

WHEREAS, their abiding patriotism and enduring devotion to the ideals on which the United States is founded can never fail to inspire us; and

WHEREAS, our veterans understand the important task before the American service men and women now keeping watch; and

Now, Therefore, Be It Resolved, that the Board of County Commissioners of the County of Adams, State of Colorado, proclaims November 11, 2020 as “Veterans Day” in Adams County and encourages all people in our county to acknowledge and honor the contributions of our veterans to the principles of democracy, individual freedom, and human rights.

In witness whereof, we have set our hands and caused the seal of the county to be affixed November 10, 2020.

Proclamation
“National Adoption Day”
November 20, 2020

Whereas, Adams County recognizes the importance of giving children permanent, safe, and loving families through adoption; and

Whereas, more than 122,000 children in the United States foster care system are waiting to be adopted; and

Whereas, as a result of the partnership between Adams County and the 17th Judicial District Court, Adams County has finalized 90 adoptions since January 2020; and

Whereas, approximately 26 children in Adams County are waiting for permanent families; and

Whereas, to help these children find permanent, nurturing families, the local courts of Adams County will provide virtual courtrooms on National Adoption Day, Friday, November 20, 2020, to finalize the adoptions of local children and join other organizations to celebrate all adoptions; and

Whereas, this effort, along with similar celebrations in all 50 states around the country, will offer children the chance to live with stable and loving families and encourage other dedicated individuals to make a powerful difference in the lives of a child through adoption.

Now, Therefore, Be It Resolved, that the Board of County Commissioners of the County of Adams, State of Colorado, proclaims November 20, 2020 as

“National Adoption Day”

and recognizes the entire month of November 2020 as National Adoption Month in Adams County, and urges all residents to join in a national effort to raise awareness about the importance of adoption.

In witness whereof, we have set our hands and caused the seal of the county to be affixed November 10, 2020.

County of Adams
Net Warrant by Fund Summary

Fund Number	Fund Description	Amount
1	General Fund	3,707,831.93
4	Capital Facilities Fund	217,848.45
5	Golf Course Enterprise Fund	100,095.60
6	Equipment Service Fund	201,504.98
7	Stormwater Utility Fund	3,017.18
13	Road & Bridge Fund	1,503,730.45
19	Insurance Fund	1,199,937.29
25	Waste Management Fund	424,722.61
28	Open Space Sales Tax Fund	150,122.18
30	Community Dev Block Grant Fund	26,296.95
31	Head Start Fund	20,191.46
34	Comm Services Blk Grant Fund	29,635.38
35	Workforce & Business Center	14,979.10
43	Colorado Air & Space Port	89,436.63
50	FLATROCK Facility Fund	2,171.22
94	Sheriff Payables	18,865.00
		<u>7,710,386.41</u>

Net Warrants by Fund Detail

1 General Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00006658	1061152	ADAMS COUNTY SCHOOL DIST 14	10/21/2020	1,091,276.00
00006659	378404	CARUSO JAMES LOUIS	10/21/2020	5,125.00
00006661	373974	DAWN B HOLMES INC	10/21/2020	4,100.00
00006662	1019655	FEDERAL HEIGHTS CITY OF	10/21/2020	369,294.66
00006663	1016895	G4S SECURE SOLUTIONS USA INC	10/21/2020	429.39
00006669	237312	SOUTH ADAMS COUNTY FIRE DEPT	10/21/2020	164,237.51
00006670	1080883	VILLAGE EXCHANGE CENTER	10/21/2020	433,333.33
00006671	934096	WOOD EIS INC	10/21/2020	985.80
00006675	1017428	B&R INDUSTRIES	10/23/2020	2,520.00
00006677	1006441	BKD LLP	10/23/2020	3,010.00
00006679	1052521	COCREATE COEVOLVE LLC	10/23/2020	375.00
00006684	1016895	G4S SECURE SOLUTIONS USA INC	10/23/2020	24,274.74
00006686	5449	NORTH METRO TASK FORCE	10/23/2020	98,483.52
00006695	491215	WELLPATH LLC	10/23/2020	118,627.74
00753332	72554	AAA PEST PROS	10/22/2020	2,210.00
00753336	13884	ADAMS COUNTY SHERIFF	10/22/2020	2,000.00
00753337	41866	ADT SECURITY SERVICES	10/22/2020	69.20
00753338	492573	ADVANCED URGENT CARE AND OCC M	10/22/2020	123,960.00
00753342	12012	ALSCO AMERICAN INDUSTRIAL	10/22/2020	46.78
00753345	786384	ALTITUDE COMMUNITY LAW	10/22/2020	38.00
00753346	322973	ARMORED KNIGHTS INC	10/22/2020	1,698.60
00753347	1080190	ATTORNEY GENERAL STATE OF ILLI	10/22/2020	19.00
00753348	140646	AZTEC SOFTWARE LLC	10/22/2020	6,174.00
00753350	3020	BENNETT TOWN OF	10/22/2020	1,500.00
00753351	3020	BENNETT TOWN OF	10/22/2020	79.05
00753352	1080174	BERRYMAN PAIGE	10/22/2020	66.00
00753355	673295	BODIE ENGER LAW TRUST	10/22/2020	19.00
00753357	13160	BRIGHTON CITY OF (WATER)	10/22/2020	17,723.08
00753358	13160	BRIGHTON CITY OF (WATER)	10/22/2020	6,872.93
00753359	1080170	BROWN DERRICK	10/22/2020	60.00
00753367	661015	CHP METRO NORTH LLC	10/22/2020	1,050.00
00753369	852482	CLEARWAY ENERGY GROUP LLC	10/22/2020	1,433.00
00753370	1080150	COLFAX MOTORS	10/22/2020	19.00
00753375	42984	CORECIVIC INC	10/22/2020	421,392.96
00753378	44656	DENVER HEALTH & HOSPITAL AUTHO	10/22/2020	680.00
00753379	237568	DESIGN WORKSHOP	10/22/2020	68,675.95

Net Warrants by Fund Detail

1 General Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753380	426149	DOUBLEPORT LLC	10/22/2020	2,458.32
00753382	808844	DUPRIEST JOHN FIELDEN	10/22/2020	65.00
00753383	430532	EASTERN ADAMS COUNTY METROPOLI	10/22/2020	805.30
00753385	47723	FEDEX	10/22/2020	40.72
00753386	1042593	FLEX FLEET RENTAL LLC	10/22/2020	5,040.00
00753387	698569	FOREST SEAN	10/22/2020	65.00
00753388	671123	FOUND MY KEYS	10/22/2020	1,571.78
00753389	426777	FRANCY LAW FIRM	10/22/2020	57.00
00753390	506511	FRANK J BALL	10/22/2020	19.00
00753392	783632	GAM ENTERPRISES INC	10/22/2020	162.00
00753393	293118	GARNER, ROSIE	10/22/2020	65.00
00753396	1080167	GORDILLO JEFFRY	10/22/2020	19.00
00753397	438625	GOVERNOR'S OFFICE OF IT	10/22/2020	2,237.22
00753400	1080171	GRAND FORKS CHILD SUPPORT	10/22/2020	19.00
00753401	742456	GRAY QUARTER INC	10/22/2020	1,017.50
00753402	808845	GRONQUIST CHRIS	10/22/2020	65.00
00753403	294059	GROUNDS SERVICE COMPANY	10/22/2020	290.00
00753404	809485	HAGGERTY BRIAN	10/22/2020	65.00
00753408	293122	HERRERA, AARON	10/22/2020	65.00
00753410	1064721	HRQ INC	10/22/2020	1,714.00
00753411	79260	IDEXX DISTRIBUTION INC	10/22/2020	819.42
00753412	675514	IMPROVEMENT ASSURANCE GROUP	10/22/2020	3,500.00
00753414	13565	INTERMOUNTAIN REA	10/22/2020	1,352.00
00753415	44965	INTERVENTION COMMUNITY CORRECT	10/22/2020	383.68
00753416	746356	J. BROWER PSYCHOLOGICAL SERVIC	10/22/2020	400.00
00753420	358103	KIMLEY-HORN AND ASSOCIATES INC	10/22/2020	16,484.60
00753422	1068464	KNOW YOUR TEAM LLC	10/22/2020	66,640.00
00753423	44695	KNS COMMUNICATIONS CONSULTANTS	10/22/2020	1,444.27
00753428	810010	LAKE COUNTY ATTORNEY	10/22/2020	19.00
00753429	48078	LARIMER COUNTY COMMUNITY CORRE	10/22/2020	225.00
00753430	976517	LIFE RECOVERY CENTER	10/22/2020	1,615.00
00753431	975291	MADDUX THOMAS SCOTT	10/22/2020	65.00
00753432	810888	MARTINEZ JUSTIN PAUL	10/22/2020	65.00
00753434	851909	MC + ENGINEERING LLC	10/22/2020	1,500.00
00753435	637831	MCCREARY RAPHAEL	10/22/2020	65.00
00753436	1080186	MEDINA JESUS ANGEL	10/22/2020	19.00

Net Warrants by Fund Detail

1 **General Fund**

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753437	1080153	MENDEZ MICHAEL	10/22/2020	19.00
00753438	32947	MOBILE STORAGE SOLUTIONS	10/22/2020	37,773.00
00753439	1080189	MONTOYA JANICE	10/22/2020	48.00
00753440	13719	MORGAN COUNTY REA	10/22/2020	216.72
00753442	100276	MSDS ONLINE	10/22/2020	3,354.00
00753444	13591	MWI VETERINARY SUPPLY CO	10/22/2020	9,568.99
00753447	32509	NCS PEARSON INC	10/22/2020	24.00
00753448	570347	NELSON AND KENNARD	10/22/2020	19.00
00753451	33716	OLD VINE PINNACLE ASSOCIATES	10/22/2020	800.00
00753452	516994	PARK 12 HUNDRED OWNERS ASSOCIA	10/22/2020	33,999.00
00753453	669732	PATTERSON VETERINARY SUPPLY IN	10/22/2020	21.68
00753454	1080156	PEGGY STEVENS AND ASSOCIATES	10/22/2020	130.00
00753455	192059	POINT SPORTS/ERGOMED	10/22/2020	180.00
00753456	1081886	PORTABLE RESTROOM TRAILER SALE	10/22/2020	66,245.00
00753457	1080182	POWER ANNE	10/22/2020	19.00
00753461	679843	REACHING HOPE	10/22/2020	6,350.00
00753462	53054	RICHARDSON SHARON	10/22/2020	65.00
00753464	1080179	RODRIGUEZ CHAVEZ GIOVANI ALEXI	10/22/2020	19.00
00753465	1080178	ROLDAN JUAN	10/22/2020	19.00
00753466	1080183	ROMERO PABLA	10/22/2020	19.00
00753467	51032	ROTARY CLUB OF NORTHGLENN THOR	10/22/2020	275.00
00753470	46007	SCANNA MSC INC	10/22/2020	24,297.00
00753473	13538	SHRED IT USA LLC	10/22/2020	120.00
00753474	10449	SIR SPEEDY	10/22/2020	100.00
00753475	13932	SOUTH ADAMS WATER & SANITATION	10/22/2020	385.37
00753476	13932	SOUTH ADAMS WATER & SANITATION	10/22/2020	1,482.07
00753477	227044	SOUTHWESTERN PAINTING	10/22/2020	17,355.00
00753478	13949	STRASBURG SANITATION	10/22/2020	1,275.60
00753479	599714	SUMMIT FOOD SERVICE LLC	10/22/2020	33,523.85
00753480	1027588	SYMMETRY BUILDERS INC	10/22/2020	67,379.00
00753483	177980	THE GROWHAUS	10/22/2020	4,701.06
00753484	385142	THOMPSON GREGORY PAUL	10/22/2020	65.00
00753485	319978	TONSAGER DENNIS	10/22/2020	65.00
00753487	810316	TRELOAR TARA A	10/22/2020	65.00
00753488	43471	TRU STILE DOORS INC	10/22/2020	75,144.93
00753489	666214	TYGRET DEBRA R	10/22/2020	200.00

Net Warrants by Fund Detail

1 **General Fund**

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753491	1007	UNITED POWER (UNION REA)	10/22/2020	69.46
00753492	1007	UNITED POWER (UNION REA)	10/22/2020	6,312.78
00753493	1007	UNITED POWER (UNION REA)	10/22/2020	2,276.92
00753494	1007	UNITED POWER (UNION REA)	10/22/2020	22,642.33
00753495	1007	UNITED POWER (UNION REA)	10/22/2020	68.50
00753496	1007	UNITED POWER (UNION REA)	10/22/2020	23,092.00
00753497	1007	UNITED POWER (UNION REA)	10/22/2020	2,495.00
00753498	1007	UNITED POWER (UNION REA)	10/22/2020	113.93
00753499	1007	UNITED POWER (UNION REA)	10/22/2020	738.92
00753500	1007	UNITED POWER (UNION REA)	10/22/2020	997.71
00753501	1007	UNITED POWER (UNION REA)	10/22/2020	28.11
00753502	1007	UNITED POWER (UNION REA)	10/22/2020	4,224.63
00753503	1007	UNITED POWER (UNION REA)	10/22/2020	131.57
00753504	1007	UNITED POWER (UNION REA)	10/22/2020	3,954.03
00753505	1007	UNITED POWER (UNION REA)	10/22/2020	6,300.58
00753506	1007	UNITED POWER (UNION REA)	10/22/2020	20,176.69
00753507	1007	UNITED POWER (UNION REA)	10/22/2020	58.85
00753508	1007	UNITED POWER (UNION REA)	10/22/2020	7,630.23
00753509	1007	UNITED POWER (UNION REA)	10/22/2020	616.99
00753519	124337	US POSTMASTER	10/22/2020	25,000.00
00753523	544338	WESTAR REAL PROPERTY SERVICES	10/22/2020	13,988.00
00753524	712817	WHITESTONE CONSTRUCTION SERVIC	10/22/2020	55,713.50
00753525	40340	WINDSTREAM COMMUNICATIONS	10/22/2020	1,572.58
00753526	737980	WOLD ARCHITECTS AND ENGINEERS	10/22/2020	3,772.20
00753527	702804	WOLFE SANDRA KAY	10/22/2020	65.00
00753528	13822	XCEL ENERGY	10/22/2020	59.69
00753529	13822	XCEL ENERGY	10/22/2020	4,116.28
00753530	13822	XCEL ENERGY	10/22/2020	5,884.92
00753531	13822	XCEL ENERGY	10/22/2020	84.61
00753532	13822	XCEL ENERGY	10/22/2020	93.20
00753533	13822	XCEL ENERGY	10/22/2020	112.80
00753534	13822	XCEL ENERGY	10/22/2020	62.95
00753535	13822	XCEL ENERGY	10/22/2020	96.06
00753536	13822	XCEL ENERGY	10/22/2020	50.95
00753537	13822	XCEL ENERGY	10/22/2020	52.31
00753538	13822	XCEL ENERGY	10/22/2020	91.55

Net Warrants by Fund Detail

1 **General Fund**

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753539	13822	XCEL ENERGY	10/22/2020	4,125.35
00753540	13822	XCEL ENERGY	10/22/2020	1,670.45
00753541	13822	XCEL ENERGY	10/22/2020	10,953.15
00753542	13822	XCEL ENERGY	10/22/2020	1,136.56
00753543	13822	XCEL ENERGY	10/22/2020	711.49
00753544	13822	XCEL ENERGY	10/22/2020	127.53
00753550	1053529	ROCKY MOUNTAIN SIGNING CO INC	10/23/2020	8,741.25
			Fund Total	3,707,831.93

Net Warrants by Fund Detail

4Capital Facilities Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00006690	908009	TAYLOR KOHRS LLC	10/23/2020	47,789.41
00006697	40847	WORKPLACE ELEMENTS	10/23/2020	113,447.01
00753374	85053	COLORADO DOORWAYS INC	10/22/2020	306.48
00753376	798606	D2C ARCHITECTS INC	10/22/2020	15,004.77
00753398	1031473	GRAEBEL COMMERCIAL SERVICES IN	10/22/2020	2,956.25
00753399	13507	GRAINGER	10/22/2020	4,690.20
00753419	185963	JVA INC	10/22/2020	500.00
00753424	44695	KNS COMMUNICATIONS CONSULTANTS	10/22/2020	17,365.71
00753443	986500	MW GOLDEN CONSTRUCTORS	10/22/2020	4,200.00
00753460	48059	RADIO RESOURCE INC	10/22/2020	5,589.25
00753510	1007	UNITED POWER (UNION REA)	10/22/2020	5,109.92
00753511	1007	UNITED POWER (UNION REA)	10/22/2020	36.10
00753512	1007	UNITED POWER (UNION REA)	10/22/2020	43.89
00753513	1007	UNITED POWER (UNION REA)	10/22/2020	47.78
00753545	13822	XCEL ENERGY	10/22/2020	111.00
00753546	13822	XCEL ENERGY	10/22/2020	650.68
Fund Total				217,848.45

Net Warrants by Fund Detail

5 Golf Course Enterprise Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00006666	6177	PROFESSIONAL RECREATION MGMT I	10/21/2020	74,481.37
00753333	72554	AAA PEST PROS	10/22/2020	45.00
00753343	12012	ALSCO AMERICAN INDUSTRIAL	10/22/2020	107.76
00753360	9822	BUCKEYE WELDING SUPPLY CO INC	10/22/2020	30.60
00753361	13206	C P S DISTRIBUTORS INC	10/22/2020	985.07
00753362	25288	CEM LAKE MGMT	10/22/2020	494.00
00753395	160270	GOLF & SPORT SOLUTIONS	10/22/2020	1,090.74
00753406	927372	HARRELLS LLC	10/22/2020	4,500.00
00753409	649113	HOSEPOWER USA AND/OR COMPLETE	10/22/2020	126.48
00753426	11496	L L JOHNSON DIST	10/22/2020	1,444.47
00753427	525704	LABOR SOLUTIONS INC	10/22/2020	1,500.00
00753433	46175	MASEK GOLF CAR COMPANY	10/22/2020	112.96
00753458	787456	PRESTIGE FLAG	10/22/2020	198.65
00753468	200698	ROYCE INDUSTRIES LC	10/22/2020	4,550.00
00753471	1079346	SCRATCH GOLF GREENS	10/22/2020	5,699.00
00753481	660831	TARGET SPECIALTY PRODUCTS	10/22/2020	3,736.50
00753486	47140	TORO NSN	10/22/2020	233.00
00753490	76466	UNDERWATER RECOVERY SPECIALIST	10/22/2020	760.00
Fund Total				100,095.60

Net Warrants by Fund Detail

6Equipment Service Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753413	682207	INSIGHT AUTO GLASS LLC	10/22/2020	960.32
00753418	26418	JOHN DEERE COMPANY	10/22/2020	164,731.60
00753469	16237	SAM HILL OIL INC	10/22/2020	30,716.05
00753482	790907	THE GOODYEAR TIRE AND RUBBER C	10/22/2020	5,097.01
Fund Total				201,504.98

County of Adams
Net Warrants by Fund Detail

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Stormwater Utility Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753405	381414	HAMPDEN PRESS INC	10/22/2020	3,017.18
			Fund Total	3,017.18

Net Warrants by Fund Detail

13**Road & Bridge Fund**

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00006672	89295	ARVADA CITY OF	10/23/2020	17,086.66
00006673	89296	AURORA CITY OF	10/23/2020	245,646.72
00006676	89297	BENNETT TOWN OF	10/23/2020	11,915.44
00006678	89298	BRIGHTON CITY OF	10/23/2020	152,813.11
00006680	89299	COMMERCE CITY CITY OF	10/23/2020	173,553.57
00006682	89300	FEDERAL HEIGHTS CITY OF	10/23/2020	29,845.60
00006687	89301	NORTHGLENN CITY OF	10/23/2020	85,217.63
00006691	89302	THORNTON CITY OF	10/23/2020	337,935.05
00006696	89304	WESTMINSTER CITY OF	10/23/2020	174,959.68
00753340	13074	ALBERT FREI & SONS INC	10/22/2020	27,108.26
00753353	49497	BFI TOWER ROAD LANDFILL	10/22/2020	2,714.05
00753354	152689	BNSF RAILWAY COMPANY	10/22/2020	7,273.34
00753356	8909	BRANNAN SAND & GRAVEL COMPANY	10/22/2020	77,020.82
00753381	128693	DREXEL BARRELL & CO	10/22/2020	4,548.00
00753384	534975	EP&A ENVIROTAC INC	10/22/2020	71,288.36
00753407	92426	HDR ENGINEERING INC	10/22/2020	13,240.00
00753417	506641	JK TRANSPORTS INC	10/22/2020	20,060.00
00753463	147080	ROCKSOL CONSULTING GROUP INC	10/22/2020	51,504.16
Fund Total				1,503,730.45

Net Warrants by Fund Detail

19Insurance Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00006681	423439	DELTA DENTAL OF COLO	10/23/2020	137,009.39
00006692	37223	UNITED HEALTH CARE INSURANCE C	10/23/2020	415,833.93
00006693	37223	UNITED HEALTH CARE INSURANCE C	10/23/2020	175,088.22
00006694	37223	UNITED HEALTH CARE INSURANCE C	10/23/2020	471,465.75
00753349	1076668	BAKKEN CHRISTEN	10/22/2020	540.00
Fund Total				1,199,937.29

Net Warrants by Fund Detail

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Waste Management Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00006674	535096	B & B ENVIRONMENTAL SAFETY INC	10/23/2020	4,553.45
00006685	1038368	IRON WOMAN CONSTRUCTION	10/23/2020	420,169.16
Fund Total				424,722.61

Net Warrants by Fund Detail

28Open Space Sales Tax Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00006665	48293	NORTHGLENN CITY OF	10/21/2020	90,007.55
00006683	43148	FEDERAL HEIGHTS CITY OF	10/23/2020	52,728.25
00753459	9635	PUBLICATION PRINTERS	10/22/2020	7,386.38
			Fund Total	150,122.18

Net Warrants by Fund Detail

30Community Dev Block Grant Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00006664	1041087	HAMPTON INN BRIGHTON	10/21/2020	8,750.00
00006667	1064424	RAIN DANCE CAR WASH LLC	10/21/2020	2,585.00
00006668	907138	ROOT POLICY RESEARCH INC	10/21/2020	2,782.45
00006689	1043599	PARTY CLOZ & BRIDRES DREAMS	10/23/2020	1,400.00
00753344	1041506	ALTHAUS LAW LLC	10/22/2020	5,876.50
00753445	357793	MY LITTLE WORLD PRESCHOOL & CH	10/22/2020	4,903.00
Fund Total				26,296.95

Net Warrants by Fund Detail

31Head Start Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753331	1077351	CATHOLIC CHARITIES DIOCESE OF	10/22/2020	1,950.00
00753339	1077634	AHA PROCESS INC	10/22/2020	4,000.00
00753363	37266	CENTURY LINK	10/22/2020	142.57
00753364	37266	CENTURY LINK	10/22/2020	198.61
00753366	327914	CESCO LINGUISTIC SERVICE INC	10/22/2020	469.97
00753368	327250	CINTAS CORPORATION NO 2	10/22/2020	160.89
00753373	5078	COLO DEPT OF HUMAN SERVICES	10/22/2020	35.00
00753394	971545	GENESIS FLOOR CARE OF COLORADO	10/22/2020	2,322.00
00753425	40323	L & N SUPPLY COMPANY INC	10/22/2020	1,629.00
00753446	1075507	NATUS MEDICAL INCORPORATED	10/22/2020	9,283.42
			Fund Total	20,191.46

Net Warrants by Fund Detail

34Comm Services Blk Grant Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753341	5991	ALMOST HOME INC	10/22/2020	19,536.32
00753449	689895	NEW LEGACY CHARTER	10/22/2020	7,981.76
00753472	58925	SERVICIOS DE LA RAZA INC	10/22/2020	2,117.30
Fund Total				29,635.38

Net Warrants by Fund Detail

35Workforce & Business Center

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753335	252050	ADAMS COUNTY HUMAN SERVICES	10/22/2020	160.65
00753365	152461	CENTURYLINK	10/22/2020	.65
00753391	1053563	FRIAS ADRIANA	10/22/2020	310.00
00753441	1079440	MOUNTAIN STATES LINE CONSTRU	10/22/2020	3,120.00
00753450	1017693	NUAGE PARAMEDICAL ESTHETICS	10/22/2020	5,000.00
00753520	1079349	VDP TRUCK AND TRAILER REPAIR	10/22/2020	5,000.00
00753521	8076	VERIZON WIRELESS	10/22/2020	747.80
00753549	1053569	YANEZA JODI MARIELLE G	10/22/2020	640.00
Fund Total				14,979.10

Net Warrants by Fund Detail

43Colorado Air & Space Port

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00006660	709816	CITY SERVICEVALCON LLC	10/21/2020	22,264.11
00006688	80249	OFFEN PETROLEUM INC	10/23/2020	4,243.18
00753377	556579	DBT TRANSPORTATION SERVICES LL	10/22/2020	1,375.00
00753421	358103	KIMLEY-HORN AND ASSOCIATES INC	10/22/2020	59,400.60
00753518	300982	UNITED SITE SERVICES	10/22/2020	609.01
00753522	80279	VERIZON WIRELESS	10/22/2020	529.08
00753547	13822	XCEL ENERGY	10/22/2020	17.26
00753548	13822	XCEL ENERGY	10/22/2020	998.39
			Fund Total	89,436.63

Net Warrants by Fund Detail

50FLATROCK Facility Fund

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753334	72554	AAA PEST PROS	10/22/2020	60.00
00753371	2381	COLO ANALYTICAL LABORATORY	10/22/2020	23.00
00753514	1007	UNITED POWER (UNION REA)	10/22/2020	1,680.15
00753515	1007	UNITED POWER (UNION REA)	10/22/2020	56.22
00753516	1007	UNITED POWER (UNION REA)	10/22/2020	233.88
00753517	1007	UNITED POWER (UNION REA)	10/22/2020	117.97
Fund Total				2,171.22

County of Adams
Net Warrants by Fund Detail

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Sheriff Payables

<u>Warrant</u>	<u>Supplier No</u>	<u>Supplier Name</u>	<u>Warrant Date</u>	<u>Amount</u>
00753372	5556	COLO BUREAU INVESTIGATION-IDEN	10/22/2020	18,865.00
Fund Total				18,865.00

County of Adams
Net Warrants by Fund Detail

Grand Total 7,710,386.41

County of Adams
Vendor Payment Report

<u>99800</u>	<u>All Ofc Shared Direct</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Postage & Freight					
	ADAMS COUNTY HUMAN SERVICES	00035	983280	375585	10/14/2020	<u>158.65</u>
					Account Total	<u>158.65</u>
					Department Total	<u><u>158.65</u></u>

County of Adams
Vendor Payment Report

<u>3161</u>	<u>Animal Shelter Construction</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	UNITED POWER (UNION REA)	00004	983510	375904	10/19/2020	5,109.92
	UNITED POWER (UNION REA)	00004	983511	375904	10/19/2020	36.10
	UNITED POWER (UNION REA)	00004	983512	375904	10/19/2020	43.89
	UNITED POWER (UNION REA)	00004	983513	375904	10/19/2020	47.78
	XCEL ENERGY	00004	983507	375904	10/19/2020	111.00
	XCEL ENERGY	00004	983509	375904	10/19/2020	650.68
					Account Total	<u>5,999.37</u>
					Department Total	<u><u>5,999.37</u></u>

County of Adams
Vendor Payment Report

<u>3164</u>	<u>Byers/Shamrock Blade Stations</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Buildings					
	JVA INC	00004	983508	375904	10/19/2020	500.00
	KNS COMMUNICATIONS CONSULTANTS	00004	983531	375993	10/20/2020	1,444.27
					Account Total	<u>1,944.27</u>
					Department Total	<u><u>1,944.27</u></u>

County of Adams
Vendor Payment Report

4	<u>Capital Facilities Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Received not Vouchered Clrg					
	D2C ARCHITECTS INC	00004	983667	376250	10/22/2020	15,004.77
	GRAEBEL COMMERCIAL SERVICES IN	00004	983738	376258	10/22/2020	2,956.25
	GRAINGER	00004	983754	376258	10/22/2020	4,690.20
	KNS COMMUNICATIONS CONSULTANTS	00004	983651	376250	10/22/2020	17,365.71
	MW GOLDEN CONSTRUCTORS	00004	983712	376250	10/22/2020	4,200.00
	RADIO RESOURCE INC	00004	983753	376258	10/22/2020	5,589.25
	TAYLOR KOHRS LLC	00004	983889	376391	10/23/2020	43,427.58
	TAYLOR KOHRS LLC	00004	983889	376391	10/23/2020	6,877.06
	WORKPLACE ELEMENTS	00004	983885	376391	10/23/2020	8,427.09
	WORKPLACE ELEMENTS	00004	983886	376391	10/23/2020	105,019.92
					Account Total	213,557.83
	Retainages Payable					
	TAYLOR KOHRS LLC	00004	983889	376391	10/23/2020	2,171.38-
	TAYLOR KOHRS LLC	00004	983889	376391	10/23/2020	343.85-
					Account Total	2,515.23-
					Department Total	211,042.60

County of Adams
Vendor Payment Report

<u>9263</u>	<u>CARES Act Funding</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Grants to Other Instit					
	ADAMS COUNTY SCHOOL DIST 14	00001	983570	376042	10/20/2020	1,091,276.00
	FEDERAL HEIGHTS CITY OF	00001	983530	375992	10/20/2020	369,294.66
	SOUTH ADAMS COUNTY FIRE DEPT	00001	983486	375816	10/16/2020	164,237.51
	VILLAGE EXCHANGE CENTER	00001	983569	376042	10/20/2020	433,333.33
					Account Total	2,058,141.50
	Operating Supplies					
	FRIAS ADRIANA	00001	983304	375585	10/14/2020	220.00
	NUAGE PARAMEDICAL ESTHETICS	00001	983342	375585	10/14/2020	5,000.00
	YANEZA JODI MARIELLE G	00001	983297	375585	10/14/2020	400.00
					Account Total	5,620.00
					Department Total	2,063,761.50

County of Adams
Vendor Payment Report

<u>4302</u>	<u>CASP Administration</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	XCEL ENERGY	00043	983642	376156	10/21/2020	17.26
					Account Total	17.26
	Telephone					
	VERIZON WIRELESS	00043	983559	376026	10/20/2020	489.05
					Account Total	489.05
	Water/Sewer/Sanitation					
	UNITED SITE SERVICES	00043	983558	376026	10/20/2020	609.01
					Account Total	609.01
					Department Total	<u>1,115.32</u>

County of Adams
Vendor Payment Report

<u>4308</u>	<u>CASPATCT</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Equipment Maint & Repair					
	DBT TRANSPORTATION SERVICES LL	00043	983555	376026	10/20/2020	720.00
	DBT TRANSPORTATION SERVICES LL	00043	983556	376026	10/20/2020	655.00
					Account Total	<u>1,375.00</u>
					Department Total	<u><u>1,375.00</u></u>

County of Adams
Vendor Payment Report

<u>4303</u>	<u>CASP FBO</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Telephone					
	VERIZON WIRELESS	00043	983559	376026	10/20/2020	<u>40.03</u>
					Account Total	<u>40.03</u>
					Department Total	<u><u>40.03</u></u>

County of Adams
Vendor Payment Report

<u>4304</u>	<u>CASP Operations/Maintenance</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Diesel					
	OFFEN PETROLEUM INC	00043	983639	376151	10/21/2020	2,032.53
					Account Total	2,032.53
	Gasoline					
	OFFEN PETROLEUM INC	00043	983640	376151	10/21/2020	1,150.13
	OFFEN PETROLEUM INC	00043	983638	376151	10/21/2020	1,060.52
					Account Total	2,210.65
					Department Total	4,243.18

County of Adams
Vendor Payment Report

<u>941018</u>	<u>CDBG 2018/2019</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Grants to Other Inst.-Pgm. Cst					
	ALTHAUS LAW LLC	00030	983442	375733	10/15/2020	2,938.25
	ALTHAUS LAW LLC	00030	983443	375734	10/15/2020	2,938.25
	HAMPTON INN BRIGHTON	00030	983446	375802	10/16/2020	8,750.00
	MY LITTLE WORLD PRESCHOOL & CH	00030	983632	376141	10/21/2020	2,451.50
	MY LITTLE WORLD PRESCHOOL & CH	00030	983616	376134	10/21/2020	2,451.50
	PARTY CLOZ & BRIDRES DREAMS	00030	983492	375831	10/16/2020	1,400.00
	RAIN DANCE CAR WASH LLC	00030	983444	375735	10/15/2020	2,585.00
					Account Total	23,514.50
					Department Total	23,514.50

County of Adams
Vendor Payment Report

<u>1020</u>	<u>CLK Administration</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Membership Dues					
	ROTARY CLUB OF NORTHGLENN THOR	00001	983490	375827	10/16/2020	<u>275.00</u>
					Account Total	<u>275.00</u>
					Department Total	<u><u>275.00</u></u>

County of Adams
Vendor Payment Report

<u>1022</u>	<u>CLK Elections</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Other Professional Serv					
	G4S SECURE SOLUTIONS USA INC	00001	983488	375826	10/16/2020	429.39
					Account Total	<u>429.39</u>
	Postage & Freight					
	US POSTMASTER	00001	983441	375730	10/15/2020	25,000.00
					Account Total	<u>25,000.00</u>
	Printing External					
	SIR SPEEDY	00001	983645	376160	10/21/2020	100.00
					Account Total	<u>100.00</u>
					Department Total	<u><u>25,529.39</u></u>

County of Adams
Vendor Payment Report

<u>1023</u>	<u>CLK Motor Vehicle</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Destruction of Records					
	SHRED IT USA LLC	00001	983646	376160	10/21/2020	30.00
					Account Total	30.00
	Operating Supplies					
	ALSCO AMERICAN INDUSTRIAL	00001	983644	376160	10/21/2020	46.78
					Account Total	46.78
	Security Service					
	ADT SECURITY SERVICES	00001	983489	375827	10/16/2020	69.20
					Account Total	69.20
					Department Total	145.98

County of Adams
Vendor Payment Report

<u>43</u>	<u>Colorado Air & Space Port</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Received not Vouchered Clrg					
	CITY SERVICEVALCON LLC	00043	983635	376150	10/21/2020	22,264.11
	KIMLEY-HORN AND ASSOCIATES INC	00043	983760	376258	10/22/2020	59,400.60
					Account Total	81,664.71
					Department Total	81,664.71

County of Adams
Vendor Payment Report

<u>9275</u>	<u>Community Corrections</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Operating Supplies					
	SHRED IT USA LLC	00001	983084	375261	10/8/2020	30.00
	SHRED IT USA LLC	00001	983430	375724	10/15/2020	30.00
	SHRED IT USA LLC	00001	983431	375725	10/15/2020	30.00
					Account Total	<u>90.00</u>
					Department Total	<u><u>90.00</u></u>

County of Adams
Vendor Payment Report

<u>30</u>	<u>Community Dev Block Grant Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Received not Vouchered Clrg					
	ROOT POLICY RESEARCH INC	00030	983636	376150	10/21/2020	<u>2,782.45</u>
					Account Total	<u>2,782.45</u>
					Department Total	<u><u>2,782.45</u></u>

County of Adams
Vendor Payment Report

<u>2031</u>	<u>County Coroner</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Medical Services					
	CARUSO JAMES LOUIS	00001	983520	375912	10/19/2020	5,125.00
	DAWN B HOLMES INC	00001	983519	375911	10/19/2020	4,100.00
					Account Total	<u>9,225.00</u>
					Department Total	<u><u>9,225.00</u></u>

County of Adams
Vendor Payment Report

<u>951016</u>	<u>CSBG</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Grants to Other Instit					
	ALMOST HOME INC	00034	983544	376012	10/20/2020	19,536.32
	NEW LEGACY CHARTER	00034	983547	376012	10/20/2020	7,981.76
	SERVICIOS DE LA RAZA INC	00034	983546	376012	10/20/2020	2,117.30
					Account Total	<u>29,635.38</u>
					Department Total	<u><u>29,635.38</u></u>

County of Adams
Vendor Payment Report

<u>6</u>	<u>Equipment Service Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Received not Vouchered Clrg					
	INSIGHT AUTO GLASS LLC	00006	983782	376258	10/22/2020	40.00
	INSIGHT AUTO GLASS LLC	00006	983784	376258	10/22/2020	154.36
	INSIGHT AUTO GLASS LLC	00006	983762	376258	10/22/2020	40.00
	INSIGHT AUTO GLASS LLC	00006	983763	376258	10/22/2020	295.96
	INSIGHT AUTO GLASS LLC	00006	983764	376258	10/22/2020	430.00
	JOHN DEERE COMPANY	00006	983774	376258	10/22/2020	164,731.60
	SAM HILL OIL INC	00006	983776	376258	10/22/2020	3,418.36
	SAM HILL OIL INC	00006	983777	376258	10/22/2020	4,933.67
	SAM HILL OIL INC	00006	983778	376258	10/22/2020	12,606.03
	SAM HILL OIL INC	00006	983808	376258	10/22/2020	9,757.99
	THE GOODYEAR TIRE AND RUBBER C	00006	983780	376258	10/22/2020	733.80
	THE GOODYEAR TIRE AND RUBBER C	00006	983781	376258	10/22/2020	1,979.77
	THE GOODYEAR TIRE AND RUBBER C	00006	983765	376258	10/22/2020	872.88
	THE GOODYEAR TIRE AND RUBBER C	00006	983789	376258	10/22/2020	315.00
	THE GOODYEAR TIRE AND RUBBER C	00006	983790	376258	10/22/2020	225.00
	THE GOODYEAR TIRE AND RUBBER C	00006	983783	376258	10/22/2020	970.56
					Account Total	201,504.98
					Department Total	201,504.98

County of Adams
Vendor Payment Report

<u>50</u>	<u>FLATROCK Facility Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Received not Vouchered Clrg					
	AAA PEST PROS	00050	983665	376250	10/22/2020	<u>60.00</u>
					Account Total	<u>60.00</u>
					Department Total	<u><u>60.00</u></u>

County of Adams
Vendor Payment Report

<u>1091</u>	<u>FO - Administration</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Building Rental					
	BENNETT TOWN OF	00001	983505	375904	10/19/2020	1,500.00
	WESTAR REAL PROPERTY SERVICES	00001	983650	376169	10/21/2020	13,988.00
					Account Total	15,488.00
	Software and Licensing					
	MSDS ONLINE	00001	983647	376169	10/21/2020	3,354.00
					Account Total	3,354.00
	Water/Sewer/Sanitation					
	Energy Cap Bill ID=11072	00001	983591	376114	10/1/2020	79.05
					Account Total	79.05
					Department Total	18,921.05

County of Adams
Vendor Payment Report

<u>1060</u>	<u>FO - Community Corrections</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11099	00001	983573	376114	10/2/2020	4,125.35
					Account Total	4,125.35
	Water/Sewer/Sanitation					
	Energy Cap Bill ID=11104	00001	983574	376114	9/13/2020	385.37
					Account Total	385.37
					Department Total	4,510.72

County of Adams
Vendor Payment Report

<u>1114</u>	<u>FO - District Attorney Bldg.</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11092	00001	983602	376114	10/6/2020	6,300.58
					Account Total	6,300.58
	Water/Sewer/Sanitation					
	Energy Cap Bill ID=11107	00001	983603	376114	10/7/2020	6,872.93
					Account Total	6,872.93
					Department Total	13,173.51

County of Adams
Vendor Payment Report

<u>2090</u>	<u>FO - Flatrock Facility</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Building Repair & Maint					
	COLO ANALYTICAL LABORATORY	00050	983649	376169	10/21/2020	23.00
					Account Total	23.00
	Gas & Electricity					
	Energy Cap Bill ID=11066	00050	983502	375903	9/24/2020	52.31
	Energy Cap Bill ID=11068	00050	983503	375903	9/24/2020	91.55
	Energy Cap Bill ID=11094	00050	983608	376114	10/6/2020	1,680.15
	Energy Cap Bill ID=11095	00050	983609	376114	10/6/2020	56.22
	Energy Cap Bill ID=11096	00050	983610	376114	10/6/2020	233.88
	Energy Cap Bill ID=11109	00050	983611	376114	10/6/2020	117.97
					Account Total	2,232.08
					Department Total	2,255.08

County of Adams
Vendor Payment Report

<u>1077</u>	<u>FO - Government Center</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11083	00001	983587	376114	10/6/2020	23,092.00
	Energy Cap Bill ID=11084	00001	983588	376114	10/6/2020	2,495.00
					Account Total	<u>25,587.00</u>
					Department Total	<u><u>25,587.00</u></u>

County of Adams
Vendor Payment Report

<u>1070</u>	<u>FO - Honnen/Plan&Devel/MV Ware</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11063	00001	983493	375903	9/22/2020	59.69
	Energy Cap Bill ID=11067	00001	983494	375903	9/22/2020	4,116.28
	Energy Cap Bill ID=11074	00001	983577	376114	10/5/2020	615.75
	Energy Cap Bill ID=11076	00001	983578	376114	10/5/2020	696.35
	Energy Cap Bill ID=11077	00001	983579	376114	9/30/2020	1,670.45
					Account Total	<u>7,158.52</u>
					Department Total	<u><u>7,158.52</u></u>

County of Adams
Vendor Payment Report

<u>1079</u>	<u>FO - Human Services Center</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11100	00001	983589	376114	10/2/2020	10,953.15
	Energy Cap Bill ID=11103	00001	983590	376114	9/28/2020	1,136.56
					Account Total	12,089.71
	Other Repair & Maint					
	PARK 12 HUNDRED OWNERS ASSOCIA	00001	983648	376169	10/21/2020	33,999.00
					Account Total	33,999.00
					Department Total	46,088.71

County of Adams
Vendor Payment Report

<u>1071</u>	<u>FO - Justice Center</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Buildings					
	MC + ENGINEERING LLC	00001	983515	375904	10/19/2020	1,500.00
					Account Total	1,500.00
	Gas & Electricity					
	Energy Cap Bill ID=11088	00001	983580	376114	10/6/2020	22,642.33
	Energy Cap Bill ID=11093	00001	983581	376114	10/6/2020	68.50
					Account Total	22,710.83
	Water/Sewer/Sanitation					
	Energy Cap Bill ID=11106	00001	983582	376114	10/7/2020	17,723.08
					Account Total	17,723.08
					Department Total	41,933.91

County of Adams
Vendor Payment Report

<u>1069</u>	<u>FO - Old Animal Shelter</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11090	00001	983575	376114	10/6/2020	<u>2,276.92</u>
					Account Total	<u>2,276.92</u>
	Water/Sewer/Sanitation					
	Energy Cap Bill ID=11081	00001	983576	376114	10/4/2020	<u>1,482.07</u>
					Account Total	<u>1,482.07</u>
					Department Total	<u><u>3,758.99</u></u>

County of Adams
Vendor Payment Report

<u>1111</u>	<u>FO - Parks Facilities</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11061	00001	983496	375903	9/24/2020	84.61
	Energy Cap Bill ID=11062	00001	983497	375903	9/24/2020	93.20
	Energy Cap Bill ID=11064	00001	983498	375903	9/24/2020	112.80
	Energy Cap Bill ID=11069	00001	983499	375903	9/24/2020	62.95
	Energy Cap Bill ID=11070	00001	983500	375903	9/24/2020	96.06
	Energy Cap Bill ID=11075	00001	983592	376114	10/5/2020	120.90
	Energy Cap Bill ID=11079	00001	983593	376114	10/6/2020	113.93
	Energy Cap Bill ID=11082	00001	983594	376114	10/6/2020	738.92
	Energy Cap Bill ID=11085	00001	983595	376114	10/6/2020	997.71
	Energy Cap Bill ID=11098	00001	983596	376114	10/6/2020	28.11
	Energy Cap Bill ID=11101	00001	983597	376114	10/1/2020	711.49
	Energy Cap Bill ID=11102	00001	983598	376114	9/28/2020	127.53
	Energy Cap Bill ID=11108	00001	983599	376114	10/6/2020	4,224.63
	Energy Cap Bill ID=11110	00001	983600	376114	10/6/2020	131.57
	UNITED POWER (UNION REA)	00001	983504	375904	10/19/2020	69.46
					Account Total	7,713.87
					Department Total	7,713.87

County of Adams
Vendor Payment Report

<u>1123</u>	<u>FO - Riverdale Animal Shelter</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	UNITED POWER (UNION REA)	00001	983516	375904	10/19/2020	6,312.78
					Account Total	<u>6,312.78</u>
	Maintenance Contracts					
	AAA PEST PROS	00001	983506	375904	10/19/2020	125.00
					Account Total	<u>125.00</u>
					Department Total	<u><u>6,437.78</u></u>

County of Adams
Vendor Payment Report

<u>1112</u>	<u>FO - Sheriff HQ/Coroner Bldg</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11091	00001	983601	376114	10/6/2020	<u>3,954.03</u>
					Account Total	<u>3,954.03</u>
					Department Total	<u><u>3,954.03</u></u>

County of Adams
Vendor Payment Report

<u>2009</u>	<u>FO - Sheriff Maintenance</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11071	00001	983501	375903	9/22/2020	50.95
	Energy Cap Bill ID=11086	00001	983604	376114	10/6/2020	20,176.69
	Energy Cap Bill ID=11087	00001	983605	376114	10/6/2020	58.85
	Energy Cap Bill ID=11089	00001	983606	376114	10/6/2020	7,630.23
	Energy Cap Bill ID=11097	00001	983607	376114	10/6/2020	616.99
					Account Total	28,533.71
					Department Total	28,533.71

County of Adams
Vendor Payment Report

<u>1075</u>	<u>FO - Strasburg/Whittier</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11078	00001	983583	376114	10/1/2020	216.72
	Energy Cap Bill ID=11105	00001	983584	376114	10/7/2020	1,352.00
					Account Total	1,568.72
	Water/Sewer/Sanitation					
	Energy Cap Bill ID=11073	00001	983585	376114	10/1/2020	1,275.60
	Energy Cap Bill ID=11080	00001	983586	376114	10/1/2020	805.30
					Account Total	2,080.90
					Department Total	3,649.62

County of Adams
Vendor Payment Report

<u>1072</u>	<u>FO - West Services Center</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	Energy Cap Bill ID=11065	00001	983495	375903	9/25/2020	<u>5,884.92</u>
					Account Total	<u>5,884.92</u>
					Department Total	<u><u>5,884.92</u></u>

County of Adams
Vendor Payment Report

<u>3098</u>	<u>General Capital Improvements</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Buildings					
	COLORADO DOORWAYS INC	00004	983514	375904	10/19/2020	<u>306.48</u>
					Account Total	<u>306.48</u>
					Department Total	<u><u>306.48</u></u>

County of Adams
Vendor Payment Report

<u>1</u>	<u>General Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Received not Vouchered Clrg					
	AAA PEST PROS	00001	983664	376250	10/22/2020	65.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	60.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	60.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	270.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	120.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	100.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	85.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	150.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	140.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	160.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	365.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	55.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	60.00
	AAA PEST PROS	00001	983664	376250	10/22/2020	395.00
	ADVANCED URGENT CARE AND OCC M	00001	983722	376250	10/22/2020	15,650.00
	ADVANCED URGENT CARE AND OCC M	00001	983722	376250	10/22/2020	10,115.00
	ADVANCED URGENT CARE AND OCC M	00001	983723	376250	10/22/2020	32,900.00
	ADVANCED URGENT CARE AND OCC M	00001	983724	376250	10/22/2020	65,295.00
	ARMORED KNIGHTS INC	00001	983769	376258	10/22/2020	339.72
	ARMORED KNIGHTS INC	00001	983769	376258	10/22/2020	339.72
	ARMORED KNIGHTS INC	00001	983769	376258	10/22/2020	339.72
	ARMORED KNIGHTS INC	00001	983769	376258	10/22/2020	339.72
	ARMORED KNIGHTS INC	00001	983769	376258	10/22/2020	339.72
	ARMORED KNIGHTS INC	00001	983769	376258	10/22/2020	339.72
	AZTEC SOFTWARE LLC	00001	983800	376258	10/22/2020	6,174.00
	B&R INDUSTRIES	00001	983896	376391	10/23/2020	720.00
	B&R INDUSTRIES	00001	983897	376391	10/23/2020	600.00
	B&R INDUSTRIES	00001	983898	376391	10/23/2020	600.00
	B&R INDUSTRIES	00001	983899	376391	10/23/2020	600.00
	BKD LLP	00001	983884	376391	10/23/2020	3,010.00
	CHP METRO NORTH LLC	00001	983654	376250	10/22/2020	1,050.00
	COCREATE COEVOLVE LLC	00001	983895	376391	10/23/2020	250.00
	COCREATE COEVOLVE LLC	00001	983895	376391	10/23/2020	125.00
	CORECIVIC INC	00001	983733	376250	10/22/2020	40,526.20
	CORECIVIC INC	00001	983668	376250	10/22/2020	32,133.20
	CORECIVIC INC	00001	983669	376250	10/22/2020	59,614.28

County of Adams
Vendor Payment Report

<u>1</u>	<u>General Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	CORECIVIC INC	00001	983671	376250	10/22/2020	4,508.24
	CORECIVIC INC	00001	983672	376250	10/22/2020	13,620.64
	CORECIVIC INC	00001	983673	376250	10/22/2020	8,969.40
	CORECIVIC INC	00001	983674	376250	10/22/2020	4,193.00
	CORECIVIC INC	00001	983675	376250	10/22/2020	4,636.00
	CORECIVIC INC	00001	983676	376250	10/22/2020	7,464.25
	CORECIVIC INC	00001	983677	376250	10/22/2020	671.44
	CORECIVIC INC	00001	983678	376250	10/22/2020	191.84
	CORECIVIC INC	00001	983679	376250	10/22/2020	3,261.28
	CORECIVIC INC	00001	983680	376250	10/22/2020	1,438.80
	CORECIVIC INC	00001	983681	376250	10/22/2020	4,080.00
	CORECIVIC INC	00001	983682	376250	10/22/2020	5,411.85
	CORECIVIC INC	00001	983683	376250	10/22/2020	2,654.00
	CORECIVIC INC	00001	983684	376250	10/22/2020	6,050.48
	CORECIVIC INC	00001	983685	376250	10/22/2020	79,709.52
	CORECIVIC INC	00001	983686	376250	10/22/2020	40,286.40
	CORECIVIC INC	00001	983687	376250	10/22/2020	67,144.00
	CORECIVIC INC	00001	983688	376250	10/22/2020	34,603.14
	CORECIVIC INC	00001	983690	376250	10/22/2020	225.00
	DESIGN WORKSHOP	00001	983734	376258	10/22/2020	2,800.00
	DESIGN WORKSHOP	00001	983758	376258	10/22/2020	36,869.11
	DESIGN WORKSHOP	00001	983805	376258	10/22/2020	29,006.84
	FLEX FLEET RENTAL LLC	00001	983761	376258	10/22/2020	5,040.00
	FOUND MY KEYS	00001	983798	376258	10/22/2020	576.80
	FOUND MY KEYS	00001	983799	376258	10/22/2020	994.98
	G4S SECURE SOLUTIONS USA INC	00001	983890	376391	10/23/2020	5,950.83
	G4S SECURE SOLUTIONS USA INC	00001	983891	376391	10/23/2020	6,006.04
	G4S SECURE SOLUTIONS USA INC	00001	983892	376391	10/23/2020	6,026.27
	G4S SECURE SOLUTIONS USA INC	00001	983893	376391	10/23/2020	6,291.60
	GAM ENTERPRISES INC	00001	983711	376250	10/22/2020	162.00
	GOVERNOR'S OFFICE OF IT	00001	983713	376250	10/22/2020	2,237.22
	GRAY QUARTER INC	00001	983696	376250	10/22/2020	1,017.50
	GROUNDS SERVICE COMPANY	00001	983707	376250	10/22/2020	290.00
	HRQ INC	00001	983766	376258	10/22/2020	1,665.00
	HRQ INC	00001	983767	376258	10/22/2020	49.00
	IDEXX DISTRIBUTION INC	00001	983700	376250	10/22/2020	819.42

County of Adams
Vendor Payment Report

<u>1</u>	<u>General Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	IMPROVEMENT ASSURANCE GROUP	00001	983661	376250	10/22/2020	3,500.00
	INTERVENTION COMMUNITY CORRECT	00001	983663	376250	10/22/2020	383.68
	J. BROWER PSYCHOLOGICAL SERVIC	00001	983794	376258	10/22/2020	400.00
	KIMLEY-HORN AND ASSOCIATES INC	00001	983755	376258	10/22/2020	16,484.60
	KNOW YOUR TEAM LLC	00001	983768	376258	10/22/2020	66,640.00
	LARIMER COUNTY COMMUNITY CORRE	00001	983662	376250	10/22/2020	225.00
	LIFE RECOVERY CENTER	00001	983801	376258	10/22/2020	1,615.00
	MOBILE STORAGE SOLUTIONS	00001	983742	376258	10/22/2020	6,520.00
	MOBILE STORAGE SOLUTIONS	00001	983743	376258	10/22/2020	6,520.00
	MOBILE STORAGE SOLUTIONS	00001	983744	376258	10/22/2020	628.00
	MOBILE STORAGE SOLUTIONS	00001	983745	376258	10/22/2020	290.00
	MOBILE STORAGE SOLUTIONS	00001	983746	376258	10/22/2020	565.00
	MOBILE STORAGE SOLUTIONS	00001	983747	376258	10/22/2020	565.00
	MOBILE STORAGE SOLUTIONS	00001	983748	376258	10/22/2020	565.00
	MOBILE STORAGE SOLUTIONS	00001	983749	376258	10/22/2020	875.00
	MOBILE STORAGE SOLUTIONS	00001	983750	376258	10/22/2020	1,735.00
	MOBILE STORAGE SOLUTIONS	00001	983751	376258	10/22/2020	19,510.00
	MWI VETERINARY SUPPLY CO	00001	983697	376250	10/22/2020	4,190.36
	MWI VETERINARY SUPPLY CO	00001	983697	376250	10/22/2020	2,523.52
	MWI VETERINARY SUPPLY CO	00001	983698	376250	10/22/2020	87.60
	MWI VETERINARY SUPPLY CO	00001	983699	376250	10/22/2020	43.80
	MWI VETERINARY SUPPLY CO	00001	983701	376250	10/22/2020	421.38
	MWI VETERINARY SUPPLY CO	00001	983702	376250	10/22/2020	383.47
	MWI VETERINARY SUPPLY CO	00001	983703	376250	10/22/2020	127.35
	MWI VETERINARY SUPPLY CO	00001	983704	376250	10/22/2020	1,637.13
	MWI VETERINARY SUPPLY CO	00001	983705	376250	10/22/2020	154.38
	NCS PEARSON INC	00001	983797	376258	10/22/2020	24.00
	OLD VINE PINNACLE ASSOCIATES	00001	983653	376250	10/22/2020	800.00
	PATTERSON VETERINARY SUPPLY IN	00001	983718	376250	10/22/2020	21.68
	PORTABLE RESTROOM TRAILER SALE	00001	983652	376250	10/22/2020	66,245.00
	REACHING HOPE	00001	983726	376257	10/22/2020	6,350.00
	ROCKY MOUNTAIN SIGNING CO INC	00001	983877	376352	10/23/2020	431.25
	ROCKY MOUNTAIN SIGNING CO INC	00001	983877	376352	10/23/2020	5,000.00
	ROCKY MOUNTAIN SIGNING CO INC	00001	983878	376352	10/23/2020	3,310.00
	SCANNA MSC INC	00001	983793	376258	10/22/2020	24,297.00
	SOUTHWESTERN PAINTING	00001	983735	376258	10/22/2020	5,432.00

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<u>1</u>	<u>General Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	SOUTHWESTERN PAINTING	00001	983736	376258	10/22/2020	8,353.00
	SOUTHWESTERN PAINTING	00001	983737	376258	10/22/2020	3,570.00
	SUMMIT FOOD SERVICE LLC	00001	983795	376258	10/22/2020	4,084.02
	SUMMIT FOOD SERVICE LLC	00001	983796	376258	10/22/2020	25,935.55
	SYMMETRY BUILDERS INC	00001	983806	376271	10/22/2020	70,925.26
	THE GROWHAUS	00001	983770	376258	10/22/2020	4,477.20
	THE GROWHAUS	00001	983771	376258	10/22/2020	223.86
	TYGRETTE DEBRA R	00001	983792	376258	10/22/2020	200.00
	WELLPATH LLC	00001	983887	376391	10/23/2020	58,423.60
	WELLPATH LLC	00001	983887	376391	10/23/2020	60,204.14
	WHITESTONE CONSTRUCTION SERVIC	00001	983720	376250	10/22/2020	48,550.00
	WHITESTONE CONSTRUCTION SERVIC	00001	983732	376258	10/22/2020	9,591.00
	WOLD ARCHITECTS AND ENGINEERS	00001	983719	376250	10/22/2020	3,772.20
	WOOD EIS INC	00001	983637	376150	10/21/2020	985.80
					Account Total	<u>1,215,865.00</u>
	Retainages Payable					
	SYMMETRY BUILDERS INC	00001	983806	376271	10/22/2020	3,546.26-
	WHITESTONE CONSTRUCTION SERVIC	00001	983720	376250	10/22/2020	2,427.50-
					Account Total	<u>5,973.76-</u>
					Department Total	<u><u>1,209,891.24</u></u>

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<u>5</u>	<u>Golf Course Enterprise Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Received not Vouchered Clrg					
	AAA PEST PROS	00005	983666	376250	10/22/2020	45.00
					Account Total	<u>45.00</u>
					Department Total	<u><u>45.00</u></u>

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Vendor Payment Report

<u>5026</u>	<u>Golf Course- Maintenance</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Contract Employment					
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	21,058.86
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	2,391.02
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	24,286.46
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	2,100.00
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	2,723.03
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	488.87
					Account Total	53,048.24
	Equipment Rental					
	BUCKEYE WELDING SUPPLY CO INC	00005	983322	375602	10/14/2020	30.60
					Account Total	30.60
	Grounds Maintenance					
	C P S DISTRIBUTORS INC	00005	983474	375818	10/16/2020	985.07
	CEM LAKE MGMT	00005	983473	375818	10/16/2020	494.00
	GOLF & SPORT SOLUTIONS	00005	983475	375818	10/16/2020	1,090.74
	HARRELLS LLC	00005	983476	375818	10/16/2020	820.00
	HARRELLS LLC	00005	983477	375818	10/16/2020	230.00
	HARRELLS LLC	00005	983478	375818	10/16/2020	960.00
	HARRELLS LLC	00005	983479	375818	10/16/2020	2,490.00
	L L JOHNSON DIST	00005	983481	375818	10/16/2020	34.71
	L L JOHNSON DIST	00005	983482	375818	10/16/2020	162.05
	L L JOHNSON DIST	00005	983323	375602	10/14/2020	623.25
	PRESTIGE FLAG	00005	983327	375602	10/14/2020	198.65
	SCRATCH GOLF GREENS	00005	983328	375602	10/14/2020	5,699.00
	TARGET SPECIALTY PRODUCTS	00005	983484	375818	10/16/2020	3,736.50
	TORO NSN	00005	983485	375818	10/16/2020	233.00
					Account Total	17,756.97
	Minor Equipment					
	ROYCE INDUSTRIES LC	00005	983483	375818	10/16/2020	4,550.00
					Account Total	4,550.00
	Other Repair & Maint					
	LABOR SOLUTIONS INC	00005	983320	375602	10/14/2020	1,500.00
	UNDERWATER RECOVERY SPECIALIST	00005	983329	375602	10/14/2020	760.00
					Account Total	2,260.00

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Vendor Payment Report

<u>5026</u>	<u>Golf Course- Maintenance</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Repair & Maint Supplies					
	ALSCO AMERICAN INDUSTRIAL	00005	983321	375602	10/14/2020	53.88
	ALSCO AMERICAN INDUSTRIAL	00005	983472	375818	10/16/2020	53.88
					Account Total	107.76
	Telephone					
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	229.24
					Account Total	229.24
	Vehicle Parts & Supplies					
	HOSEPOWER USA AND/OR COMPLETE	00005	983480	375818	10/16/2020	126.48
	L L JOHNSON DIST	00005	983324	375602	10/14/2020	607.66
	L L JOHNSON DIST	00005	983325	375602	10/14/2020	16.80
					Account Total	750.94
					Department Total	78,733.75

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<u>5021</u>	<u>Golf Course- Pro Shop</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Contract Employment					
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	15,867.17
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	1,933.60
					Account Total	17,800.77
	Golf Carts					
	MASEK GOLF CAR COMPANY	00005	983326	375602	10/14/2020	112.96
					Account Total	112.96
	Insurance Premiums					
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	51.75
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	636.40
					Account Total	688.15
	Postage & Freight					
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	220.00
					Account Total	220.00
	Security Service					
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	441.00
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	1,295.00
					Account Total	1,736.00
	Telephone					
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	64.12
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	80.12
					Account Total	144.24
	Water/Sewer/Sanitation					
	PROFESSIONAL RECREATION MGMT I	00005	983633	376144	10/21/2020	614.73
					Account Total	614.73
					Department Total	21,316.85

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<u>31</u>	<u>Head Start Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Received not Vouchered Clrg					
	CESCO LINGUISTIC SERVICE INC	00031	983691	376250	10/22/2020	60.00
	CESCO LINGUISTIC SERVICE INC	00031	983692	376250	10/22/2020	116.81
	CESCO LINGUISTIC SERVICE INC	00031	983693	376250	10/22/2020	173.16
	CESCO LINGUISTIC SERVICE INC	00031	983694	376250	10/22/2020	60.00
	CESCO LINGUISTIC SERVICE INC	00031	983695	376250	10/22/2020	60.00
	GENESIS FLOOR CARE OF COLORADO	00031	983706	376250	10/22/2020	2,322.00
					Account Total	2,791.97
					Department Total	2,791.97

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<u>935120</u>	<u>HHS Grant</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Education & Training					
	CATHOLIC CHARITIES DIOCESE OF	00031	983168	375493	10/13/2020	1,950.00
	AHA PROCESS INC	00031	983167	375493	10/13/2020	4,000.00
					Account Total	5,950.00
	Operating Supplies					
	CINTAS CORPORATION NO 2	00031	983171	375493	10/13/2020	160.89
	L & N SUPPLY COMPANY INC	00031	983532	375915	10/19/2020	1,629.00
					Account Total	1,789.89
	Other Professional Serv					
	COLO DEPT OF HUMAN SERVICES	00031	983523	375915	10/19/2020	35.00
	NATUS MEDICAL INCORPORATED	00031	983173	375493	10/13/2020	9,283.42
					Account Total	9,318.42
	Telephone					
	CENTURY LINK	00031	983522	375915	10/19/2020	198.61
	CENTURY LINK	00031	983169	375493	10/13/2020	142.57
					Account Total	341.18
					Department Total	17,399.49

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<u>2028</u>	<u>HIDTA Grant - NMTF</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Grants to Other Instit					
	NORTH METRO TASK FORCE	00001	983563	376032	10/20/2020	98,483.52
					Account Total	98,483.52
					Department Total	98,483.52

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<u>8613</u>	<u>Insurance - UHC EPO Medical</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Claims					
	UNITED HEALTH CARE INSURANCE C	00019	983567	376039	10/20/2020	415,833.93
	UNITED HEALTH CARE INSURANCE C	00019	983568	376039	10/20/2020	175,088.22
	UNITED HEALTH CARE INSURANCE C	00019	983641	376154	10/21/2020	471,465.75
					Account Total	<u>1,062,387.90</u>
					Department Total	<u><u>1,062,387.90</u></u>

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<u>8622</u>	<u>Insurance -Benefits & Wellness</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Other Professional Serv BAKKEN CHRISTEN	00019	983428	375723	10/15/2020	540.00
					Account Total	540.00
					Department Total	540.00

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<u>8614</u>	<u>Insurance- Delta Dental</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Self-Insurance Claims					
	DELTA DENTAL OF COLO	00019	983554	376028	10/20/2020	30,428.40
	DELTA DENTAL OF COLO	00019	983557	376028	10/20/2020	21,910.00
	DELTA DENTAL OF COLO	00019	983564	376028	10/20/2020	17,755.29
	DELTA DENTAL OF COLO	00019	983565	376028	10/20/2020	27,946.90
	DELTA DENTAL OF COLO	00019	983566	376028	10/20/2020	562.00
	DELTA DENTAL OF COLO	00019	983560	376028	10/20/2020	25,465.20
	DELTA DENTAL OF COLO	00019	983561	376028	10/20/2020	12,839.60
	DELTA DENTAL OF COLO	00019	983562	376028	10/20/2020	102.00
					Account Total	137,009.39
					Department Total	137,009.39

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<u>1058</u>	<u>IT Network/Telecom</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Telephone					
	WINDSTREAM COMMUNICATIONS	00001	983526	375985	10/20/2020	<u>1,572.58</u>
					Account Total	<u>1,572.58</u>
					Department Total	<u><u>1,572.58</u></u>

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Vendor Payment Report

<u>99650</u>	<u>Misc Reimbursable Purchases</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Misc Reimbursable Purchases					
	MOUNTATIN STATES LINE CONSTRUC	00035	983340	375585	10/14/2020	<u>780.00</u>
					Account Total	<u>780.00</u>
					Department Total	<u><u>780.00</u></u>

County of Adams
Vendor Payment Report

<u>1190</u>	<u>One-Stop Customer Service Cent</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Other Professional Serv					
	DOUBLEPORT LLC	00001	983521	375914	10/19/2020	<u>2,458.32</u>
					Account Total	<u>2,458.32</u>
					Department Total	<u><u>2,458.32</u></u>

County of Adams
Vendor Payment Report

<u>6201</u>	<u>Open Space Tax- Admin</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Public Relations					
	PUBLICATION PRINTERS	00028	983617	376135	10/21/2020	<u>7,386.38</u>
					Account Total	<u>7,386.38</u>
					Department Total	<u><u>7,386.38</u></u>

County of Adams
Vendor Payment Report

<u>6202</u>	<u>Open Space Tax- Grants</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Grants to Other Instit					
	FEDERAL HEIGHTS CITY OF	00028	983615	376132	10/21/2020	52,728.25
	NORTHGLENN CITY OF	00028	983491	375829	10/16/2020	90,007.55
					Account Total	142,735.80
					Department Total	142,735.80

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<u>1015</u>	<u>People Services</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Messenger/Delivery Service					
	FEDEX	00001	983427	375723	10/15/2020	<u>40.72</u>
					Account Total	<u>40.72</u>
					Department Total	<u><u>40.72</u></u>

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Vendor Payment Report

<u>1089</u>	<u>PLN- Boards & Commissions</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Other Professional Serv					
	DUPRIEST JOHN FIELDEN	00001	983153	375487	10/13/2020	65.00
	FOREST SEAN	00001	983147	375487	10/13/2020	65.00
	GARNER, ROSIE	00001	983148	375487	10/13/2020	65.00
	GRONQUIST CHRIS	00001	983417	375715	10/15/2020	65.00
	HAGGERTY BRIAN	00001	983415	375715	10/15/2020	65.00
	HERRERA, AARON	00001	983149	375487	10/13/2020	65.00
	MADDUX THOMAS SCOTT	00001	983155	375487	10/13/2020	65.00
	MARTINEZ JUSTIN PAUL	00001	983146	375487	10/13/2020	65.00
	MCCREARY RAPHAEL	00001	983412	375715	10/15/2020	65.00
	RICHARDSON SHARON	00001	983151	375487	10/13/2020	65.00
	THOMPSON GREGORY PAUL	00001	983152	375487	10/13/2020	65.00
	TONSAGER DENNIS	00001	983416	375715	10/15/2020	65.00
	TRELOAR TARA A	00001	983414	375715	10/15/2020	65.00
	WOLFE SANDRA KAY	00001	983413	375715	10/15/2020	65.00
					Account Total	910.00
					Department Total	910.00

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<u>3019</u>	<u>PW - Admin/Org</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Payments To Cities-Sales Taxes					
	ARVADA CITY OF	00013	983418	375716	10/15/2020	17,086.66
	AURORA CITY OF	00013	983419	375716	10/15/2020	245,646.72
	BENNETT TOWN OF	00013	983420	375716	10/15/2020	11,915.44
	BRIGHTON CITY OF	00013	983421	375716	10/15/2020	152,813.11
	COMMERCE CITY CITY OF	00013	983422	375716	10/15/2020	173,553.57
	FEDERAL HEIGHTS CITY OF	00013	983423	375716	10/15/2020	29,845.60
	NORTHGLENN CITY OF	00013	983424	375716	10/15/2020	85,217.63
	THORNTON CITY OF	00013	983425	375716	10/15/2020	337,935.05
	WESTMINSTER CITY OF	00013	983426	375716	10/15/2020	174,959.68
					Account Total	1,228,973.46
					Department Total	1,228,973.46

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Vendor Payment Report

<u>3056</u>	<u>PW - Capital Improvement Plan</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Road & Streets					
	BNSF RAILWAY COMPANY	00013	983312	375591	10/14/2020	<u>7,273.34</u>
					Account Total	<u>7,273.34</u>
					Department Total	<u><u>7,273.34</u></u>

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Vendor Payment Report

<u>3031</u>	<u>PW - Operations & Maintenance</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gravel Maintenance					
	ALBERT FREI & SONS INC	00013	983727	376258	10/22/2020	.04
	ALBERT FREI & SONS INC	00013	983728	376258	10/22/2020	.07
					Account Total	.11
					Department Total	.11

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Vendor Payment Report

<u>97975</u>	<u>RESEA Program-FY16</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Postage & Freight					
	ADAMS COUNTY HUMAN SERVICES	00035	983280	375585	10/14/2020	<u>2.00</u>
					Account Total	<u>2.00</u>
					Department Total	<u><u>2.00</u></u>

County of Adams
Vendor Payment Report

<u>13</u>	<u>Road & Bridge Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Prior Year Exp Recovery					
	TRU STILE DOORS INC	00013	983518	375909	10/19/2020	75,144.93
					Account Total	75,144.93
	Received not Vouchered Clrg					
	ALBERT FREI & SONS INC	00013	983728	376258	10/22/2020	16,410.38
	ALBERT FREI & SONS INC	00013	983727	376258	10/22/2020	10,697.77
	BFI TOWER ROAD LANDFILL	00013	983714	376250	10/22/2020	86.65
	BFI TOWER ROAD LANDFILL	00013	983714	376250	10/22/2020	2,627.40
	BRANNAN SAND & GRAVEL COMPANY	00013	983729	376258	10/22/2020	13,926.44
	BRANNAN SAND & GRAVEL COMPANY	00013	983730	376258	10/22/2020	15,836.10
	BRANNAN SAND & GRAVEL COMPANY	00013	983730	376258	10/22/2020	21,131.46
	BRANNAN SAND & GRAVEL COMPANY	00013	983731	376258	10/22/2020	5,588.94
	BRANNAN SAND & GRAVEL COMPANY	00013	983731	376258	10/22/2020	9,652.28
	BRANNAN SAND & GRAVEL COMPANY	00013	983731	376258	10/22/2020	10,885.60
	DREXEL BARRELL & CO	00013	983656	376250	10/22/2020	3,000.00
	DREXEL BARRELL & CO	00013	983659	376250	10/22/2020	1,548.00
	EP&A ENVIROTAC INC	00013	983716	376250	10/22/2020	35,644.18
	EP&A ENVIROTAC INC	00013	983717	376250	10/22/2020	35,644.18
	HDR ENGINEERING INC	00013	983756	376258	10/22/2020	13,240.00
	JK TRANSPORTS INC	00013	983721	376250	10/22/2020	20,060.00
	ROCKSOL CONSULTING GROUP INC	00013	983739	376258	10/22/2020	51,504.16
					Account Total	267,483.54
					Department Total	342,628.47

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Vendor Payment Report

<u>94</u>	<u>Sheriff Payables</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Fingerprint Cards - CBI					
	COLO BUREAU INVESTIGATION-IDEN	00094	983535	376000	10/20/2020	<u>18,865.00</u>
					Account Total	<u>18,865.00</u>
					Department Total	<u><u>18,865.00</u></u>

County of Adams
Vendor Payment Report

<u>2011</u>	<u>SHF- Admin Services Division</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Other Professional Serv					
	POINT SPORTS/ERGOMED	00001	983539	376004	10/20/2020	<u>180.00</u>
					Account Total	<u>180.00</u>
					Department Total	<u><u>180.00</u></u>

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Vendor Payment Report

<u>2015</u>	<u>SHF- Civil Section</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Sheriff's Fees					
	ALTITUDE COMMUNITY LAW	00001	983452	375815	10/16/2020	19.00
	ALTITUDE COMMUNITY LAW	00001	983455	375815	10/16/2020	19.00
	ATTORNEY GENERAL STATE OF ILLI	00001	983471	375815	10/16/2020	19.00
	BERRYMAN PAIGE	00001	983464	375815	10/16/2020	66.00
	BODIE ENGER LAW TRUST	00001	983451	375815	10/16/2020	19.00
	BROWN DERRICK	00001	983462	375815	10/16/2020	60.00
	COLFAX MOTORS	00001	983458	375815	10/16/2020	19.00
	FRANCY LAW FIRM	00001	983453	375815	10/16/2020	19.00
	FRANCY LAW FIRM	00001	983454	375815	10/16/2020	19.00
	FRANCY LAW FIRM	00001	983450	375815	10/16/2020	19.00
	FRANK J BALL	00001	983449	375815	10/16/2020	19.00
	GORDILLO JEFFRY	00001	983461	375815	10/16/2020	19.00
	GRAND FORKS CHILD SUPPORT	00001	983463	375815	10/16/2020	19.00
	LAKE COUNTY ATTORNEY	00001	983457	375815	10/16/2020	19.00
	MEDINA JESUS ANGEL	00001	983469	375815	10/16/2020	19.00
	MENDEZ MICHAEL	00001	983459	375815	10/16/2020	19.00
	MONTOYA JANICE	00001	983470	375815	10/16/2020	48.00
	NELSON AND KENNARD	00001	983456	375815	10/16/2020	19.00
	PEGGY STEVENS AND ASSOCIATES	00001	983460	375815	10/16/2020	130.00
	POWER ANNE	00001	983467	375815	10/16/2020	19.00
	RODRIGUEZ CHAVEZ GIOVANI ALEXI	00001	983466	375815	10/16/2020	19.00
	ROLDAN JUAN	00001	983465	375815	10/16/2020	19.00
	ROMERO PABLA	00001	983468	375815	10/16/2020	19.00
					Account Total	665.00
					Department Total	665.00

County of Adams
Vendor Payment Report

<u>2016</u>	<u>SHF- Detective Division</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Medical Services					
	DENVER HEALTH & HOSPITAL AUTHO	00001	983538	376004	10/20/2020	<u>680.00</u>
					Account Total	<u>680.00</u>
					Department Total	<u><u>680.00</u></u>

County of Adams
Vendor Payment Report

<u>2071</u>	<u>SHF- Detention Facility</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Operating Supplies					
	SUMMIT FOOD SERVICE LLC	00001	983540	376004	10/20/2020	1,745.74
	SUMMIT FOOD SERVICE LLC	00001	983541	376004	10/20/2020	1,685.54
	SUMMIT FOOD SERVICE LLC	00001	983542	376004	10/20/2020	73.00
					Account Total	<u>3,504.28</u>
					Department Total	<u><u>3,504.28</u></u>

County of Adams
Vendor Payment Report

<u>2018</u>	<u>SHF- Records/Warrants Section</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Extraditions					
	ADAMS COUNTY SHERIFF	00001	983537	376004	10/20/2020	<u>2,000.00</u>
					Account Total	<u>2,000.00</u>
					Department Total	<u><u>2,000.00</u></u>

County of Adams
Vendor Payment Report

<u>7</u>	<u>Stormwater Utility Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Received not Vouchered Clrg					
	HAMPDEN PRESS INC	00007	983660	376250	10/22/2020	693.34
	HAMPDEN PRESS INC	00007	983660	376250	10/22/2020	2,323.84
					Account Total	3,017.18
					Department Total	3,017.18

County of Adams
Vendor Payment Report

<u>97800</u>	<u>Wagner-Peyser</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Other Communications					
	VERIZON WIRELESS	00035	983291	375585	10/14/2020	40.01
					Account Total	40.01
	Telephone					
	CENTURYLINK	00035	983285	375585	10/14/2020	.65
					Account Total	.65
					Department Total	40.66

County of Adams
Vendor Payment Report

<u>97803</u>	<u>Wagner-Peyser Migrant Seasonal</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Other Communications					
	VERIZON WIRELESS	00035	983291	375585	10/14/2020	<u>259.34</u>
					Account Total	<u>259.34</u>
					Department Total	<u><u>259.34</u></u>

County of Adams
Vendor Payment Report

<u>25</u>	<u>Waste Management Fund</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Received not Vouchered Clrg					
	B & B ENVIRONMENTAL SAFETY INC	00025	983901	376391	10/23/2020	4,553.45
	IRON WOMAN CONSTRUCTION	00025	983888	376391	10/23/2020	442,283.33
					Account Total	446,836.78
	Retainages Payable					
	IRON WOMAN CONSTRUCTION	00025	983888	376391	10/23/2020	22,114.17-
					Account Total	22,114.17-
					Department Total	424,722.61

County of Adams
Vendor Payment Report

<u>4316</u>	<u>Wastewater Treatment Plant</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Gas & Electricity					
	XCEL ENERGY	00043	983643	376156	10/21/2020	998.39
					Account Total	998.39
					Department Total	998.39

County of Adams
Vendor Payment Report

<u>99600</u>	<u>WBC Admin Pool</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Other Communications					
	VERIZON WIRELESS	00035	983291	375585	10/14/2020	<u>51.27</u>
					Account Total	<u>51.27</u>
					Department Total	<u><u>51.27</u></u>

County of Adams
Vendor Payment Report

<u>99806</u>	<u>WIOA & Wag/Pey Shared Prog Cst</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Other Communications					
	VERIZON WIRELESS	00035	983291	375585	10/14/2020	<u>51.27</u>
					Account Total	<u>51.27</u>
					Department Total	<u><u>51.27</u></u>

County of Adams
Vendor Payment Report

<u>97200</u>	<u>WIOA ADULT PROGRAM</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Apprenticeship					
	MOUNTAIN STATES LINE CONSTRUCT	00035	983341	375585	10/14/2020	1,560.00
	MOUNTAIN STATES LINE CONSTRUCT	00035	983339	375585	10/14/2020	780.00
					Account Total	2,340.00
	Clnt Trng- OJT					
	VDP TRUCK AND TRAILER REPAIR	00035	983330	375585	10/14/2020	5,000.00
					Account Total	5,000.00
					Department Total	7,340.00

County of Adams
Vendor Payment Report

<u>97400</u>	<u>WIOA YOUTH YOUNGER</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Clnt Trng-Work Experience					
	FRIAS ADRIANA	00035	983304	375585	10/14/2020	90.00
	YANEZA JODI MARIELLE G	00035	983297	375585	10/14/2020	240.00
					Account Total	<u>330.00</u>
					Department Total	<u><u>330.00</u></u>

County of Adams
Vendor Payment Report

<u>99807</u>	<u>Youth Shared Prgrm Direct Cost</u>	<u>Fund</u>	<u>Voucher</u>	<u>Batch No</u>	<u>GL Date</u>	<u>Amount</u>
	Other Communications					
	VERIZON WIRELESS	00035	983291	375585	10/14/2020	<u>345.91</u>
					Account Total	<u>345.91</u>
					Department Total	<u><u>345.91</u></u>

County of Adams
Vendor Payment Report

Grand Total 7,710,386.41



**Board of County Commissioners
Minutes of Commissioners' Proceedings**

**Eva J. Henry - District #1
Charles "Chaz" Tedesco - District #2
Emma Pinter - District #3
Steve O'Dorisio - District #4
Mary Hodge - District #5**

**Tuesday
October 27, 2020
9:30 AM**

1. ROLL CALL

Present: 5 - Commissioner Henry, Commissioner Tedesco, Commissioner Pinter, Commissioner O'Dorisio, and Commissioner Hodge

2. PLEDGE OF ALLEGIANCE

3. MOTION TO APPROVE AGENDA

A motion was made by Commissioner Henry, seconded by Commissioner Hodge, that this Agenda be approved. The motion carried by the following vote:

Aye: 5 - Commissioner Henry, Commissioner Tedesco, Commissioner Pinter, Commissioner O'Dorisio, and Commissioner Hodge

4. AWARDS AND PRESENTATIONS

5. PUBLIC COMMENT

A. Citizen Communication

B. Elected Officials' Communication

6. CONSENT CALENDAR

A motion was made by Commissioner Henry, seconded by Commissioner Hodge, that this Consent Calendar be approved. The motion carried by the following vote:

Aye: 5 - Commissioner Henry, Commissioner Tedesco, Commissioner Pinter, Commissioner O'Dorisio, and Commissioner Hodge

- A. List of Expenditures Under the Dates of October 5-9, 2020
- B. List of Expenditures Under the Dates of October 12-16, 2020
- C. Minutes of the Commissioners' Proceedings from October 20, 2020
- D. Resolution for Final Acceptance of the Public Improvements Constructed at the Shook Parcel Subdivision, Filing Number 2, (Case No's. PRJ2005-00059, PLT2005-00051, PLT2018-00002, ROW2005-00354, EGR2016-00028, EGR2018-00013, CSI2019-00001, SUB2019-00001, SIA2019-00001)
(File approved by ELT)
- E. Resolution Approving the Intergovernmental Agreement between Adams County and 27J School District Regarding Colorado Preschool Program for 2020-2021
(File approved by ELT)
- F. Resolution Approving Amendment 1 to Lease Agreement between Adams County and Adams County Emergency Food Bank for a Portion of the Honnen Building Located at 711 E. 56th Avenue
(File approved by ELT)
- G. Resolution Approving Addendum to Right-of-Way Agreement between Adams County and Fortenberry Investment Co., LLP, for Property Necessary for the Dahlia Street Roadway and Drainage Improvements Project from East 74th Avenue to East 78th Avenue
(File approved by ELT)
- H. Resolution Approving Agreement between the County of Adams, Colorado and the Endura Healthcare, Inc. to Provide Long Term Care and Medicaid Application Processing at the Endura Healthcare, Inc. Facility
(File approved by ELT)
- I. Resolution Appointing Brent Voge to the Adams County Retirement Board
(File approved by ELT)
- J. Resolution Appointing Paul Franke to the Adams County Housing Authority dba Maiker Housing Partners
(File approved by ELT)

7. NEW BUSINESS

A. COUNTY MANAGER

1. Resolution Approving Task Order #2 between Adams County and DHM Design Corp., for Landscape Design Services for the Veterans Memorial at the Riverdale Regional Park
(File approved by ELT)

A motion was made by Commissioner Tedesco, seconded by Commissioner O'Dorisio, that this New Business be approved. The motion carried by the following vote:

Aye: 5 - Commissioner Henry, Commissioner Tedesco, Commissioner Pinter, Commissioner O'Dorisio, and Commissioner Hodge

2. Resolution Approving Amendment Two to the Agreement between Adams County and Sysco Denver to Provide Nutrition Food Products for the Head Start Program
(File approved by ELT)

A motion was made by Commissioner Henry, seconded by Commissioner O'Dorisio, that this New Business be approved. The motion carried by the following vote:

Aye: 5 - Commissioner Henry, Commissioner Tedesco, Commissioner Pinter, Commissioner O'Dorisio, and Commissioner Hodge

3. Resolution Approving Amendment One to an Agreement between Adams County and Saunders Construction, LLC, for the Government Center Space Utilization Phase 2 Project
(File approved by ELT)

A motion was made by Commissioner Hodge, seconded by Commissioner Tedesco, that this New Business be approved. The motion carried by the following vote:

Aye: 5 - Commissioner Henry, Commissioner Tedesco, Commissioner Pinter, Commissioner O'Dorisio, and Commissioner Hodge

B. COUNTY ATTORNEY

8. **Motion to Adjourn into Executive Session Pursuant to C.R.S. 24-6-402(4)(b) and (e) for the Purpose of Receiving Legal Advice and Instructing Negotiators Regarding EEOC Charges and also Pursuant to C.R.S. 24-6-402(4)(b) for the Purpose of Receiving Legal Advice Regarding HRDC Case and Open Meetings Requirements**

A motion was made by Commissioner Henry, seconded by Commissioner Hodge, that this Executive Session be approved. The motion carried by the following vote:

Aye: 5 - Commissioner Henry, Commissioner Tedesco, Commissioner Pinter, Commissioner O'Dorisio, and Commissioner Hodge

9. LAND USE HEARINGS

A. Cases to be Heard

1. PRC2020-00006 T&G 6301 Federal Blvd. Rezone and Major PUD
Amendment
(File approved by ELT)

**A motion was made by Commissioner O'Dorisio, seconded by
Commissioner Tedesco, that this Land Use Hearing be approved. The
motion carried by the following vote:**

Aye: 5 - Commissioner Henry, Commissioner Tedesco, Commissioner Pinter,
Commissioner O'Dorisio, and Commissioner Hodge

10. ADJOURNMENT

AND SUCH OTHER MATTERS OF PUBLIC BUSINESS WHICH MAY ARISE



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: 2020 Adams County Board of Equalization Hearing Officers Recommendations and Request for Approval
FROM: Elizabeth A. Albright, BOE Coordinator
AGENCY/DEPARTMENT: County Attorney's Office
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners sitting as the Adams County Board of Equalization Approve the Resolution Setting Forth the Final Decisions of the Adams County Board of Equalization for Tax Year 2020.

BACKGROUND:

Between October 1, 2020, and October 28, 2020, the Adams County Board of Equalization's duly appointed hearing officers met and held real and personal property tax evaluation hearings as required annually pursuant to C.R.S. § 39-8-101 *et seq.* Their findings and recommendations are attached hereto for review, consideration, and approval. C.R.S. § 39-8-107(2) requires that all hearings must be held and all decisions rendered by the close of business on October 28, 2020.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Adams County Assessor's Office

ATTACHED DOCUMENTS:

The Findings and Recommendations of the 2020 County Board of Equalization Hearing Officers

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<hr/>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<hr/>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

RESOLUTION SETTING FORTH THE FINAL DECISIONS OF THE ADAMS COUNTY
BOARD OF EQUALIZATION FOR TAX YEAR 2020

WHEREAS, pursuant to C.R.S. § 39-8-101, the Board of County Commissioners of Adams County comprise the Adams County Board of Equalization; and,

WHEREAS, Independent Referees duly appointed in accordance with C.R.S. § 39-8-107(2)(i) by the Adams County Board of Equalization (the “Board of Equalization”) conducted property tax valuation appeal hearings from October 1, 2020, through October 28, 2020; and,

WHEREAS, pursuant to C.R.S. § 39-8-102(1) the Board of Equalization reviews the valuations for assessment of all taxable property in the County for errors, omissions and to promote the end that all valuations for assessment are just and equalized within the County; and,

WHEREAS, the findings and recommendations of the Independent Referees are presented in the attached summary and are being submitted to the Board of Equalization for review and approval.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, sitting as the Adams County Board of Equalization, that the findings and recommendations presented by the Independent Referees are hereby ratified and confirmed and letters of decision are to be mailed via United States Postal Service, or sent via electronic mail, to all petitioners and/or their designated agent in accordance with the attached summary.

**Adams County Board of Equalization Protest
2020****Value Summary**

	Current Total Value	BOE Total Value	Difference
Adjust			
Number of Accounts: 5	\$13,827,203	\$12,864,930	(\$962,273)
Deny			
Number of Accounts: 1443	\$3,476,226,134	\$3,476,226,134	\$0
Stipulated			
Number of Accounts: 58	\$534,162,885	\$459,043,273	(\$75,119,612)
Withdrawn			
Number of Accounts: 24	\$212,962,064	\$212,962,064	\$0

Grand Totals Adjusted / Stipulated Decisions:	\$547,990,088	\$471,908,203	(\$76,081,885)
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Grand Totals All Decisions:	\$4,237,178,286	\$4,161,096,401	(\$76,081,885)
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Total Number of Accounts Overall: 1530

**Adams County Board of Equalization Protest
2020**

Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Adjust						
P0000931	Personal	0172131401005	\$9,203,948	\$8,600,000	(\$603,948)	119299
P0001370	Pipeline		\$1,954,316	\$1,758,884	(\$195,432)	119228
P0001679	Pipeline		\$499,354	\$449,419	(\$49,935)	119229
P0001914	Pipeline		\$729,585	\$656,627	(\$72,958)	119227
R0097557	Residential	0182335417002	\$1,440,000	\$1,400,000	(\$40,000)	119350
Number of Accounts: 5			\$13,827,203	\$12,864,930	(\$962,273)	

Adams County Board of Equalization Protest 2020

Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
P0001821	Personal	0156905331001	\$667,037	\$667,037	\$0	119358
P0004579	Personal	0182511303003	\$3,918,726	\$3,918,726	\$0	119454
P0006071	Personal	0171915411010	\$2,366,449	\$2,366,449	\$0	119440
P0008410	Personal	0156918201006	\$1,898,476	\$1,898,476	\$0	119441
P0010186	Personal	0171903111027	\$1,150,436	\$1,150,436	\$0	119359
P0014274	Personal	0157334004028	\$187,353	\$187,353	\$0	119269
P0016624	Personal	0182307407006	\$1,886,690	\$1,886,690	\$0	119442
P0016914	Personal	0171913005002	\$1,391,481	\$1,391,481	\$0	119360
P0018124	Personal	0171917113012	\$616,733	\$616,733	\$0	119361
P0021481	Personal	0171915411009	\$1,317,129	\$1,317,129	\$0	119444
P0022729	Personal	0171914318006	\$918,597	\$918,597	\$0	119362
P0024766	Personal	0182128101002	\$2,566,275	\$2,566,275	\$0	119446
P0027030	Personal	0157327201001	\$1,438,426	\$1,438,426	\$0	119448
P0030192	Personal	0157129417005	\$2,578,054	\$2,578,054	\$0	119449
P0031930	Personal	0171926207038	\$958,012	\$958,012	\$0	119450
P0033588	Personal	0171910401023	\$944,820	\$944,820	\$0	119451
P0034481	Personal	0182505116002	\$971,641	\$971,641	\$0	119452
R0001815	Industrial	0156905201001	\$62,789	\$62,789	\$0	119285
R0002571	Industrial	0156906112005	\$63,597	\$63,597	\$0	119288
R0002572	Industrial	0156906112006	\$63,597	\$63,597	\$0	119286
R0002573	Industrial	0156906112007	\$63,597	\$63,597	\$0	119287
R0002809	Commercial	0156906311008	\$155,520	\$155,520	\$0	119541
R0002819	Commercial	0156906313002	\$2,137,149	\$2,137,149	\$0	119542
R0002834	Commercial	0156906314002	\$168,656	\$168,656	\$0	119543
R0002835	Commercial	0156906314003	\$169,405	\$169,405	\$0	119544
R0002855	Commercial	0156906315013	\$597,143	\$597,143	\$0	119545
R0003353	Commercial	0156906426013	\$854,640	\$854,640	\$0	119466
R0003892	Commercial	0156907206006	\$357,200	\$357,200	\$0	119546
R0004562	Commercial	0156907323005	\$1,328,486	\$1,328,486	\$0	119548
R0004563	Commercial	0156907323006	\$669,900	\$669,900	\$0	119549
R0005368	Residential	0156908102004	\$332,050	\$332,050	\$0	119304
R0005767	Commercial	0156908202009	\$1,691,029	\$1,691,029	\$0	119550
R0011803	Commercial	0157131326008	\$7,011,086	\$7,011,086	\$0	119199
R0014577	Residential	0157316003009	\$257,000	\$257,000	\$0	119283
R0024058	Commercial	0157333004004	\$4,914,000	\$4,914,000	\$0	119552
R0024076	Commercial	0157333006008	\$3,490,460	\$3,490,460	\$0	119553
R0024077	Commercial	0157333006008	\$381,714	\$381,714	\$0	119554
R0024095	Commercial	0157333007009	\$1,147,260	\$1,147,260	\$0	119555
R0024096	Commercial	0157333007010	\$1,434,075	\$1,434,075	\$0	119556
R0024445	Commercial	0157334002022	\$985,286	\$985,286	\$0	119557

**Adams County Board of Equalization Protest
2020**

Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0024461	Commercial	0157334004016	\$5,505,867	\$5,505,867	\$0	119558
R0024462	Commercial	0157334004019	\$3,706,736	\$3,706,736	\$0	119560
R0024468	Commercial	0157334004028	\$3,500,000	\$3,500,000	\$0	119262
R0024504	Commercial	0157334301002	\$2,789,988	\$2,789,988	\$0	119328
R0025153	Residential	0157334314001	\$60,858,959	\$60,858,959	\$0	119388
R0030085	Commercial	0171903005007	\$689,000	\$689,000	\$0	119561
R0030410	Commercial	0171903111024	\$1,018,587	\$1,018,587	\$0	119562
R0030415	Commercial	0171903111031	\$661,446	\$661,446	\$0	119563
R0030506	Residential	0171903117008	\$26,106,713	\$26,106,713	\$0	119389
R0031544	Residential	0171904306038	\$411,000	\$411,000	\$0	119302
R0032085	Residential	0171905107001	\$27,758,986	\$27,758,986	\$0	119790
R0032086	Residential	0171905108001	\$25,838,829	\$25,838,829	\$0	119391
R0032087	Residential	0171905109001	\$45,651,999	\$45,651,999	\$0	119392
R0034499	Commercial	0171908405009	\$8,144,320	\$8,144,320	\$0	119344
R0037160	Commercial	0171910304005	\$2,515,723	\$2,515,723	\$0	119329
R0037161	Commercial	0171910304006	\$2,515,722	\$2,515,722	\$0	119329
R0037162	Commercial	0171910304007	\$2,515,000	\$2,515,000	\$0	119329
R0037169	Residential	0171910304018	\$15,162,000	\$15,162,000	\$0	119393
R0037191	Commercial	0171910307015	\$812,645	\$812,645	\$0	119564
R0037690	Commercial	0171911101016	\$1,696,841	\$1,696,841	\$0	119276
R0037691	Commercial	0171911101017	\$330,917	\$330,917	\$0	119278
R0037708	Commercial	0171911102017	\$2,337,682	\$2,337,682	\$0	119565
R0037709	Commercial	0171911102018	\$488,480	\$488,480	\$0	119566
R0039362	Residential	0171912411001	\$50,500,000	\$50,500,000	\$0	119394
R0040581	Commercial	0171914100005	\$1,478,420	\$1,478,420	\$0	119334
R0041599	Commercial	0171915102017	\$2,056,540	\$2,056,540	\$0	119184
R0041606	Commercial	0171915104009	\$1,374,531	\$1,374,531	\$0	119567
R0041722	Commercial	0171915201008	\$5,721,649	\$5,721,649	\$0	119568
R0041723	Commercial	0171915201010	\$1,108,164	\$1,108,164	\$0	119569
R0041726	Commercial	0171915201025	\$400,198	\$400,198	\$0	119570
R0041728	Commercial	0171915201027	\$663,180	\$663,180	\$0	119571
R0041729	Commercial	0171915201028	\$1,331,011	\$1,331,011	\$0	119572
R0041735	Commercial	0171915201034	\$897,859	\$897,859	\$0	119574
R0041750	Commercial	0171915202015	\$275,996	\$275,996	\$0	119575
R0045699	Commercial	0171917316003	\$1,267,200	\$1,267,200	\$0	119576
R0048725	Commercial	0171920102027	\$1,434,074	\$1,434,074	\$0	119577
R0048729	Commercial	0171920102034	\$1,393,500	\$1,393,500	\$0	119578
R0050034	Residential	0171920326003	\$38,605,825	\$38,605,825	\$0	119395
R0050221	Commercial	0171920422014	\$2,296,515	\$2,296,515	\$0	119579
R0051163	Commercial	0171922400017	\$593,074	\$593,074	\$0	119580

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0051178	Commercial	0171922402002	\$1,429,811	\$1,429,811	\$0	119581
R0057639	Residential	0171926408015	\$19,475,006	\$19,475,006	\$0	119396
R0057640	Residential	0171926408016	\$16,715,008	\$16,715,008	\$0	119397
R0057641	Residential	0171926408017	\$229,998	\$229,998	\$0	119398
R0057642	Residential	0171926408018	\$18,200,000	\$18,200,000	\$0	119399
R0058165	Commercial	0171927117001	\$445,947	\$445,947	\$0	119296
R0058166	Commercial	0171927117002	\$575,000	\$575,000	\$0	119296
R0058167	Commercial	0171927117004	\$24,314,252	\$24,314,252	\$0	119296
R0058168	Commercial	0171927117005	\$2,494,800	\$2,494,800	\$0	119296
R0058376	Commercial	0171927211003	\$802,196	\$802,196	\$0	119230
R0059544	Industrial	0171928200019	\$6,800,000	\$6,800,000	\$0	119319
R0059547	Commercial	0171928200034	\$495,820	\$495,820	\$0	119582
R0059560	Commercial	0171928202002	\$769,371	\$769,371	\$0	119583
R0059564	Residential	0171928204009	\$37,286,543	\$37,286,543	\$0	119400
R0059565	Commercial	0171928205008	\$1,541,993	\$1,541,993	\$0	119456
R0059567	Residential	0171928205014	\$32,102,882	\$32,102,882	\$0	119401
R0060706	Commercial	0171929105001	\$1,157,672	\$1,157,672	\$0	119584
R0062003	Commercial	0171929424001	\$3,964,585	\$3,964,585	\$0	119390
R0062949	Commercial	0171930225002	\$3,516,001	\$3,516,001	\$0	119585
R0062955	Commercial	0171930300012	\$1,607,040	\$1,607,040	\$0	119586
R0063280	Residential	0171930318002	\$16,807,218	\$16,807,218	\$0	119402
R0063281	Residential	0171930318003	\$16,613,779	\$16,613,779	\$0	119403
R0063282	Residential	0171930318004	\$16,615,048	\$16,615,048	\$0	119404
R0068801	Residential	0171933322001	\$18,486,999	\$18,486,999	\$0	119301
R0069039	Commercial	0171933414005	\$5,801,714	\$5,801,714	\$0	119238
R0069041	Commercial	0171933414008	\$6,948,130	\$6,948,130	\$0	119587
R0069042	Commercial	0171933414011	\$452,589	\$452,589	\$0	119588
R0070623	Commercial	0171934402016	\$1,104,081	\$1,104,081	\$0	119462
R0070624	Commercial	0171934402017	\$2,311,623	\$2,311,623	\$0	119473
R0070625	Commercial	0171934402018	\$1,371,705	\$1,371,705	\$0	119474
R0070626	Commercial	0171934402019	\$2,049,631	\$2,049,631	\$0	119475
R0070627	Commercial	0171934402020	\$2,164,930	\$2,164,930	\$0	119476
R0070645	Commercial	0171934407017	\$5,903,841	\$5,903,841	\$0	119345
R0071092	Commercial	0171935401006	\$1,077,630	\$1,077,630	\$0	119590
R0071097	Commercial	0171935404002	\$1,232,000	\$1,232,000	\$0	119591
R0071103	Commercial	0171935404008	\$1,039,704	\$1,039,704	\$0	119592
R0071159	Commercial	0171936300064	\$2,663,890	\$2,663,890	\$0	119593
R0075184	Industrial	0172110001019	\$1,885,714	\$1,885,714	\$0	119594
R0075192	Commercial	0172110004005	\$1,819,211	\$1,819,211	\$0	119595
R0075196	Industrial	0172110005001	\$2,741,627	\$2,741,627	\$0	119596

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Deny						
R0075216	Commercial	0172110006013	\$1,276,000	\$1,276,000	\$0	119597
R0075248	Commercial	0172112001004	\$4,307,000	\$4,307,000	\$0	119418
R0075352	Commercial	0172116004003	\$2,769,435	\$2,769,435	\$0	119598
R0076889	Commercial	0172120000014	\$3,626,360	\$3,626,360	\$0	119600
R0077024	Commercial	0172122006007	\$5,027,838	\$5,027,838	\$0	119235
R0077932	Commercial	0172131313001	\$2,115,976	\$2,115,976	\$0	119320
R0077960	Commercial	0172131402004	\$2,521,200	\$2,521,200	\$0	119601
R0077962	Commercial	0172131402019	\$101,822	\$101,822	\$0	119602
R0077964	Commercial	0172131402021	\$700,719	\$700,719	\$0	119603
R0077966	Commercial	0172131402024	\$1,320,000	\$1,320,000	\$0	119604
R0079443	Commercial	0172132318042	\$739,201	\$739,201	\$0	119605
R0079713	Commercial	0172132411002	\$1,750,000	\$1,750,000	\$0	119606
R0080401	Industrial	0172306004001	\$2,666,902	\$2,666,902	\$0	119607
R0083915	Commercial	0182119003002	\$4,208,671	\$4,208,671	\$0	119608
R0083953	Commercial	0182126004001	\$9,125,926	\$9,125,926	\$0	119478
R0083966	Industrial	0182126005005	\$3,818,483	\$3,818,483	\$0	119609
R0083974	Commercial	0182126007003	\$3,562,379	\$3,562,379	\$0	119254
R0084051	Industrial	0182128001001	\$2,283,463	\$2,283,463	\$0	119610
R0084086	Commercial	0182129000035	\$1,076,799	\$1,076,799	\$0	119611
R0084229	Commercial	0182129218001	\$561,636	\$561,636	\$0	119612
R0084262	Commercial	0182130007001	\$6,256,161	\$6,256,161	\$0	119378
R0084273	Commercial	0182130009003	\$11,636,000	\$11,636,000	\$0	119804
R0084289	Commercial	0182130012003	\$2,152,139	\$2,152,139	\$0	119613
R0084290	Industrial	0182130012004	\$243,172	\$243,172	\$0	119614
R0084305	Commercial	0182130013001	\$528,000	\$528,000	\$0	119263
R0084320	Commercial	0182130014007	\$708,473	\$708,473	\$0	119615
R0085519	Commercial	0182131319047	\$1,982,664	\$1,982,664	\$0	119185
R0085907	Commercial	0182132308004	\$1,116,343	\$1,116,343	\$0	119616
R0085933	Commercial	0182132315012	\$649,896	\$649,896	\$0	119788
R0085934	Commercial	0182132315013	\$923,882	\$923,882	\$0	119618
R0086201	Commercial	0182133006002	\$577,420	\$577,420	\$0	119652
R0086202	Commercial	0182133006003	\$542,428	\$542,428	\$0	119655
R0086203	Commercial	0182133006004	\$1,251,556	\$1,251,556	\$0	119658
R0086204	Commercial	0182133006005	\$388,773	\$388,773	\$0	119661
R0086205	Commercial	0182133006006	\$740,520	\$740,520	\$0	119664
R0086206	Commercial	0182133006007	\$12,887,776	\$12,887,776	\$0	119667
R0086219	Commercial	0182133012002	\$4,187,913	\$4,187,913	\$0	119670
R0087496	Commercial	0182135008001	\$3,073,840	\$3,073,840	\$0	119379
R0087497	Commercial	0182135008002	\$1,110,780	\$1,110,780	\$0	119379
R0088278	Commercial	0182305202020	\$902,431	\$902,431	\$0	119672

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Deny						
R0090935	Industrial	0182307200033	\$1,940,970	\$1,940,970	\$0	119673
R0090938	Industrial	0182307200038	\$1,100,637	\$1,100,637	\$0	119343
R0090944	Industrial	0182307200044	\$1,405,919	\$1,405,919	\$0	119676
R0090967	Commercial	0182307300016	\$1,783,659	\$1,783,659	\$0	119678
R0090971	Commercial	0182307300035	\$2,875,000	\$2,875,000	\$0	119323
R0090992	Commercial	0182307400010	\$796,600	\$796,600	\$0	119630
R0090993	Commercial	0182307400011	\$385,700	\$385,700	\$0	119681
R0090994	Commercial	0182307400012	\$229,172	\$229,172	\$0	119683
R0091001	Commercial	0182307400028	\$1,866,800	\$1,866,800	\$0	119685
R0091019	Commercial	0182307400066	\$2,228,160	\$2,228,160	\$0	119686
R0091905	Commercial	0182308301023	\$575,899	\$575,899	\$0	119689
R0091908	Industrial	0182308302005	\$1,650,000	\$1,650,000	\$0	119691
R0091922	Commercial	0182308302038	\$1,097,000	\$1,097,000	\$0	119693
R0092138	Residential	0182308411014	\$79,800	\$79,800	\$0	119316
R0092139	Residential	0182308411015	\$5,184,001	\$5,184,001	\$0	119317
R0092233	Residential	0182308417005	\$194,602	\$194,602	\$0	119305
R0092257	Commercial	0182317100012	\$1,571,328	\$1,571,328	\$0	119234
R0092347	Commercial	0182317103057	\$936,268	\$936,268	\$0	119694
R0092375	Commercial	0182317105010	\$1,270,821	\$1,270,821	\$0	119696
R0092644	Industrial	0182317215009	\$2,362,572	\$2,362,572	\$0	119698
R0092645	Industrial	0182317215010	\$3,682,436	\$3,682,436	\$0	119701
R0092718	Commercial	0182317402026	\$1,101,322	\$1,101,322	\$0	119702
R0092752	Commercial	0182317407001	\$889,960	\$889,960	\$0	119704
R0092822	Commercial	0182318101001	\$1,554,000	\$1,554,000	\$0	119706
R0092832	Commercial	0182318105001	\$735,680	\$735,680	\$0	119324
R0092833	Commercial	0182318105002	\$650,000	\$650,000	\$0	119324
R0092841	Commercial	0182318200007	\$1,969,660	\$1,969,660	\$0	119708
R0093679	Residential	0182325415004	\$314,000	\$314,000	\$0	119311
R0093880	Commercial	0182326101037	\$2,194,133	\$2,194,133	\$0	119712
R0095622	Commercial	0182334426011	\$2,421,720	\$2,421,720	\$0	119330
R0095649	Commercial	0182334428007	\$672,001	\$672,001	\$0	119534
R0097558	Residential	0182335417003	\$3,325,000	\$3,325,000	\$0	119351
R0097568	Residential	0182335418001	\$329,412	\$329,412	\$0	119308
R0097569	Residential	0182335418002	\$328,638	\$328,638	\$0	119309
R0097570	Residential	0182335418003	\$333,258	\$333,258	\$0	119307
R0097737	Residential	0182335427015	\$12,502,000	\$12,502,000	\$0	119318
R0097755	Commercial	0182335429010	\$831,966	\$831,966	\$0	119231
R0097858	Commercial	0182501103001	\$1,375,489	\$1,375,489	\$0	119734
R0098106	Industrial	0182502205019	\$2,409,943	\$2,409,943	\$0	119733
R0098117	Commercial	0182502303001	\$1,206,917	\$1,206,917	\$0	119735

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Deny						
R0098149	Commercial	0182502308019	\$1,466,667	\$1,466,667	\$0	119738
R0098152	Commercial	0182502308025	\$1,303,052	\$1,303,052	\$0	119737
R0098153	Commercial	0182502308028	\$186,641	\$186,641	\$0	119736
R0098167	Commercial	0182502401032	\$2,868,644	\$2,868,644	\$0	119740
R0098213	Commercial	0182502405006	\$1,165,185	\$1,165,185	\$0	119732
R0098588	Commercial	0182503402009	\$2,295,157	\$2,295,157	\$0	119300
R0098817	Commercial	0182504108003	\$1,450,000	\$1,450,000	\$0	119166
R0098998	Commercial	0182504200008	\$1,141,668	\$1,141,668	\$0	119742
R0099000	Commercial	0182504201002	\$1,689,851	\$1,689,851	\$0	119771
R0099001	Commercial	0182504201003	\$2,742,970	\$2,742,970	\$0	119773
R0099003	Commercial	0182504201005	\$5,905,241	\$5,905,241	\$0	119772
R0099634	Commercial	0182504301003	\$2,168,571	\$2,168,571	\$0	119776
R0099649	Commercial	0182504402007	\$3,038,934	\$3,038,934	\$0	119325
R0100089	Commercial	0182505216015	\$1,164,885	\$1,164,885	\$0	119777
R0100090	Commercial	0182505216016	\$1,225,062	\$1,225,062	\$0	119775
R0100104	Commercial	0182505220005	\$1,511,000	\$1,511,000	\$0	119247
R0100918	Commercial	0182506115002	\$1,114,823	\$1,114,823	\$0	119753
R0102990	Commercial	0182507308001	\$803,081	\$803,081	\$0	119774
R0102991	Commercial	0182507308002	\$1,274,437	\$1,274,437	\$0	119752
R0102992	Commercial	0182507308004	\$2,189,410	\$2,189,410	\$0	119751
R0103038	Commercial	0182508102001	\$1,015,403	\$1,015,403	\$0	119768
R0103480	Commercial	0182510200024	\$2,365,450	\$2,365,450	\$0	119766
R0103490	Commercial	0182510200047	\$2,200,000	\$2,200,000	\$0	119767
R0103519	Commercial	0182510301030	\$2,875,807	\$2,875,807	\$0	119765
R0103521	Commercial	0182510301032	\$2,541,753	\$2,541,753	\$0	119769
R0103531	Commercial	0182510302006	\$2,090,001	\$2,090,001	\$0	119764
R0103540	Industrial	0182510401013	\$2,860,123	\$2,860,123	\$0	119763
R0103577	Commercial	0182510407022	\$1,145,825	\$1,145,825	\$0	119761
R0103606	Commercial	0182510408008	\$1,833,333	\$1,833,333	\$0	119762
R0103607	Commercial	0182510408009	\$1,360,600	\$1,360,600	\$0	119770
R0103609	Commercial	0182510409001	\$3,575,777	\$3,575,777	\$0	119335
R0103701	Commercial	0182511300064	\$938,667	\$938,667	\$0	119756
R0103712	Commercial	0182511300085	\$1,279,640	\$1,279,640	\$0	119193
R0103774	Commercial	0182511400040	\$445,700	\$445,700	\$0	119755
R0103775	Commercial	0182511400049	\$55,539	\$55,539	\$0	119755
R0103780	Commercial	0182511400064	\$75,903	\$75,903	\$0	119755
R0103781	Industrial	0182511402001	\$8,320,563	\$8,320,563	\$0	119755
R0104113	Commercial	0182515200008	\$952,173	\$952,173	\$0	119481
R0104130	Industrial	0182515202010	\$143,712	\$143,712	\$0	119483
R0104133	Commercial	0182515204006	\$6,600,000	\$6,600,000	\$0	119480

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Deny						
R0104135	Commercial	0182515206002	\$4,316,400	\$4,316,400	\$0	119757
R0105460	Commercial	0182518231003	\$60,984	\$60,984	\$0	119758
R0105461	Commercial	0182518231006	\$557,108	\$557,108	\$0	119759
R0106321	Residential	0157131325005	\$25,000,000	\$25,000,000	\$0	119298
R0107807	Commercial	0157333008010	\$7,282,680	\$7,282,680	\$0	119760
R0107864	Industrial	0182501402002	\$1,376,711	\$1,376,711	\$0	119747
R0107873	Industrial	0182126007012	\$2,361,008	\$2,361,008	\$0	119619
R0108444	Commercial	0182502303012	\$2,231,941	\$2,231,941	\$0	119743
R0109570	Commercial	0157333005008	\$2,419,232	\$2,419,232	\$0	119431
R0110670	Commercial	0157131209009	\$899,000	\$899,000	\$0	119746
R0110809	Industrial	0171911101041	\$1,864,297	\$1,864,297	\$0	119326
R0110915	Industrial	0172115006005	\$3,965,944	\$3,965,944	\$0	119745
R0110916	Industrial	0172115006006	\$2,606,838	\$2,606,838	\$0	119744
R0111444	Commercial	0157333006024	\$4,397,876	\$4,397,876	\$0	119748
R0111445	Commercial	0157333006024	\$374,398	\$374,398	\$0	119748
R0111886	Residential	0171917118001	\$42,470,400	\$42,470,400	\$0	119405
R0111887	Residential	0171917118002	\$42,784,677	\$42,784,677	\$0	119406
R0112102	Commercial	0172132316016	\$532,109	\$532,109	\$0	119336
R0112103	Commercial	0172132316017	\$2,122,951	\$2,122,951	\$0	119380
R0112267	Commercial	0157334004031	\$1,749,600	\$1,749,600	\$0	119749
R0113636	Industrial	0172110005013	\$1,230,429	\$1,230,429	\$0	119750
R0113837	Commercial	0171936305003	\$4,053,632	\$4,053,632	\$0	119674
R0114709	Commercial	0157333005014	\$292,725	\$292,725	\$0	119488
R0114727	Commercial	0171912411011	\$1,518,867	\$1,518,867	\$0	119675
R0114779	Commercial	0182128003014	\$1,953,457	\$1,953,457	\$0	119671
R0114809	Industrial	0172115009006	\$1,205,229	\$1,205,229	\$0	119684
R0114862	Commercial	0171930219021	\$1,378,950	\$1,378,950	\$0	119682
R0114866	Commercial	0171935302054	\$3,520,993	\$3,520,993	\$0	119342
R0115204	Commercial	0182505407025	\$3,093,799	\$3,093,799	\$0	119679
R0115417	Industrial	0172115011001	\$729,143	\$729,143	\$0	119491
R0115917	Commercial	0171932317012	\$4,683,615	\$4,683,615	\$0	119458
R0116055	Industrial	0171911102051	\$1,760,000	\$1,760,000	\$0	119680
R0116056	Industrial	0171911102052	\$1,679,662	\$1,679,662	\$0	119688
R0116112	Industrial	0182318103006	\$813,078	\$813,078	\$0	119324
R0116788	Commercial	0157113102002	\$5,373,583	\$5,373,583	\$0	119220
R0117238	Commercial	0182504302011	\$1,666,003	\$1,666,003	\$0	119687
R0117477	Commercial	0182129301001	\$635,000	\$635,000	\$0	119754
R0118160	Commercial	0182132316016	\$2,194,169	\$2,194,169	\$0	119677
R0118946	Commercial	0171904211003	\$4,003,400	\$4,003,400	\$0	119690
R0119264	Industrial	0182307200067	\$28,358	\$28,358	\$0	119343

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Deny						
R0119605	Commercial	0172116302001	\$4,965,751	\$4,965,751	\$0	119665
R0121100	Commercial	0171917113007	\$3,249,948	\$3,249,948	\$0	119331
R0121103	Commercial	0171917113006	\$1,310,848	\$1,310,848	\$0	119663
R0121104	Commercial	0171917113008	\$681,109	\$681,109	\$0	119331
R0121106	Commercial	0171917113009	\$1,678,650	\$1,678,650	\$0	119492
R0121108	Commercial	0171917113011	\$2,299,229	\$2,299,229	\$0	119331
R0121200	Residential	0171912301001	\$78,790,090	\$78,790,090	\$0	119408
R0121201	Residential	0171912301002	\$42,425,879	\$42,425,879	\$0	119407
R0121202	Residential	0171912301003	\$172,980	\$172,980	\$0	119409
R0121203	Residential	0171912301004	\$50,378	\$50,378	\$0	119536
R0121751	Commercial	0182510201006	\$2,500,000	\$2,500,000	\$0	119662
R0121833	Industrial	0182514211002	\$2,139,691	\$2,139,691	\$0	119660
R0122463	Commercial	0172128214001	\$1,532,902	\$1,532,902	\$0	119381
R0122465	Commercial	0157112410011	\$1,058,123	\$1,058,123	\$0	119666
R0124385	Commercial	0171932300083	\$1,243,840	\$1,243,840	\$0	119668
R0124483	Commercial	0157334402002	\$2,025,210	\$2,025,210	\$0	119186
R0124505	Commercial	0182129101001	\$5,191,977	\$5,191,977	\$0	119659
R0125310	Residential	0171922307050	\$38,309,917	\$38,309,917	\$0	119537
R0125423	Residential	0171907129001	\$58,012,500	\$58,012,500	\$0	119411
R0127970	Residential	0156909310040	\$380,000	\$380,000	\$0	119303
R0129018	Commercial	0171902209033	\$8,036,191	\$8,036,191	\$0	119805
R0129054	Industrial	0182508103012	\$1,198,561	\$1,198,561	\$0	119657
R0129256	Commercial	0157328301004	\$1,904,533	\$1,904,533	\$0	119187
R0131306	Industrial	0156911106010	\$6,257,200	\$6,257,200	\$0	119327
R0132268	Commercial	0182334109031	\$451,064	\$451,064	\$0	119656
R0133383	Commercial	0182502403044	\$1,470,578	\$1,470,578	\$0	119654
R0137076	Residential	0157334315001	\$66,357,760	\$66,357,760	\$0	119412
R0137096	Industrial	0172115101004	\$1,643,951	\$1,643,951	\$0	119337
R0137097	Industrial	0172115101005	\$1,473,726	\$1,473,726	\$0	119337
R0137098	Commercial	0172115101006	\$4,486,000	\$4,486,000	\$0	119669
R0137585	Commercial	0172117402002	\$1,100,000	\$1,100,000	\$0	119646
R0138750	Commercial	0171913113002	\$3,008,419	\$3,008,419	\$0	119356
R0139062	Commercial	0172110108001	\$1,034,550	\$1,034,550	\$0	119644
R0139063	Commercial	0172110108001	\$1,633,736	\$1,633,736	\$0	119645
R0141594	Commercial	0182507200044	\$4,391,500	\$4,391,500	\$0	119643
R0141853	Residential	0157334316003	\$64,284,080	\$64,284,080	\$0	119413
R0142131	Commercial	0182503103028	\$12,823,926	\$12,823,926	\$0	119482
R0142376	Commercial	0171917113013	\$2,174,897	\$2,174,897	\$0	119188
R0144828	Commercial	0171914318005	\$2,300,000	\$2,300,000	\$0	119648
R0149871	Commercial	0171905410002	\$1,776,495	\$1,776,495	\$0	119294

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0150325	Residential	0171924115065	\$80,330,000	\$80,330,000	\$0	119414
R0151445	Commercial	0171915102028	\$6,356,880	\$6,356,880	\$0	119803
R0151448	Commercial	0157119301010	\$1,714,001	\$1,714,001	\$0	119647
R0151464	Commercial	0171912411019	\$924,169	\$924,169	\$0	119236
R0151826	Commercial	0182507306015	\$1,378,879	\$1,378,879	\$0	119649
R0152698	Industrial	0182508103045	\$2,010,000	\$2,010,000	\$0	119650
R0155045	Commercial	0156911106013	\$15,722,001	\$15,722,001	\$0	119651
R0155050	Commercial	0156911106012	\$863,739	\$863,739	\$0	119642
R0155127	Commercial	0171927118017	\$1,891,095	\$1,891,095	\$0	119202
R0156586	Commercial	0157135401001	\$2,346,667	\$2,346,667	\$0	119641
R0156593	Commercial	0182334429025	\$830,000	\$830,000	\$0	119653
R0157689	Commercial	0156907229001	\$359,270	\$359,270	\$0	119640
R0157693	Commercial	0156907228004	\$1,764,323	\$1,764,323	\$0	119639
R0158500	Commercial	0182502401040	\$2,447,140	\$2,447,140	\$0	119638
R0159275	Residential	0156910120001	\$83,405	\$83,405	\$0	119373
R0159276	Residential	0156910120002	\$83,405	\$83,405	\$0	119373
R0159277	Residential	0156910120003	\$83,405	\$83,405	\$0	119373
R0159278	Residential	0156910120004	\$83,405	\$83,405	\$0	119373
R0159279	Residential	0156910120005	\$83,405	\$83,405	\$0	119373
R0159280	Residential	0156910120006	\$83,405	\$83,405	\$0	119373
R0159281	Residential	0156910120007	\$83,405	\$83,405	\$0	119373
R0159282	Residential	0156910120008	\$83,405	\$83,405	\$0	119373
R0159439	Industrial	0182318203001	\$2,206,371	\$2,206,371	\$0	119637
R0159997	Commercial	0182514101004	\$3,184,974	\$3,184,974	\$0	119382
R0160369	Commercial	0156906313018	\$1,548,486	\$1,548,486	\$0	119636
R0160827	Commercial	0182507302003	\$1,444,960	\$1,444,960	\$0	119635
R0160828	Industrial	0182507302004	\$1,271,123	\$1,271,123	\$0	119634
R0161412	Commercial	0157336410159	\$3,570,000	\$3,570,000	\$0	119339
R0161887	Commercial	0172121202001	\$1,875,000	\$1,875,000	\$0	119800
R0162801	Commercial	0182132407014	\$2,604,430	\$2,604,430	\$0	119354
R0164255	Commercial	0182134101008	\$988,026	\$988,026	\$0	119633
R0164303	Commercial	0157302209002	\$5,202,459	\$5,202,459	\$0	119632
R0164393	Commercial	0182505407031	\$351,731	\$351,731	\$0	119279
R0164529	Commercial	0157335403048	\$421,668	\$421,668	\$0	119622
R0164530	Commercial	0157335403049	\$2,080,771	\$2,080,771	\$0	119622
R0165251	Commercial	0157113101031	\$61,605	\$61,605	\$0	119240
R0165252	Commercial	0157113101046	\$61,605	\$61,605	\$0	119240
R0165253	Commercial	0157113101032	\$59,932	\$59,932	\$0	119240
R0165254	Commercial	0157113101045	\$59,932	\$59,932	\$0	119240
R0165255	Commercial	0157113101033	\$59,932	\$59,932	\$0	119240

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0165256	Commercial	0157113101044	\$59,932	\$59,932	\$0	119240
R0165257	Commercial	0157113101034	\$59,932	\$59,932	\$0	119240
R0165258	Commercial	0157113101043	\$59,932	\$59,932	\$0	119240
R0165259	Commercial	0157113101035	\$59,932	\$59,932	\$0	119240
R0165260	Commercial	0157113101042	\$59,932	\$59,932	\$0	119240
R0165261	Commercial	0157113101036	\$59,932	\$59,932	\$0	119240
R0165262	Commercial	0157113101041	\$59,932	\$59,932	\$0	119240
R0165263	Commercial	0157113101037	\$59,932	\$59,932	\$0	119240
R0165264	Commercial	0157113101040	\$59,932	\$59,932	\$0	119240
R0165265	Commercial	0157113101038	\$61,605	\$61,605	\$0	119240
R0165266	Commercial	0157113101039	\$61,605	\$61,605	\$0	119240
R0168574	Commercial	0182129404001	\$1,422,081	\$1,422,081	\$0	119623
R0168586	Commercial	0182128102003	\$1,901,400	\$1,901,400	\$0	119493
R0169176	Commercial	0157332401008	\$5,092,000	\$5,092,000	\$0	119293
R0170350	Commercial	0157327404007	\$361,519	\$361,519	\$0	119626
R0170471	Commercial	0156907228014	\$1,352,346	\$1,352,346	\$0	119627
R0170688	Residential	0157109117030	\$49,980	\$49,980	\$0	119365
R0170689	Residential	0157109117031	\$49,980	\$49,980	\$0	119365
R0170690	Residential	0157109117032	\$49,980	\$49,980	\$0	119365
R0170691	Residential	0157109117033	\$49,980	\$49,980	\$0	119365
R0170692	Residential	0157109117034	\$49,980	\$49,980	\$0	119365
R0170693	Residential	0157109117035	\$49,980	\$49,980	\$0	119365
R0170694	Residential	0157109119038	\$49,980	\$49,980	\$0	119365
R0170695	Residential	0157109119037	\$49,980	\$49,980	\$0	119365
R0170696	Residential	0157109119036	\$49,980	\$49,980	\$0	119365
R0170697	Residential	0157109119035	\$49,980	\$49,980	\$0	119365
R0170698	Residential	0157109119034	\$49,980	\$49,980	\$0	119365
R0170699	Residential	0157109119033	\$49,980	\$49,980	\$0	119365
R0170700	Residential	0157109119032	\$49,980	\$49,980	\$0	119365
R0170701	Residential	0157109119031	\$49,980	\$49,980	\$0	119365
R0170716	Residential	0157109119039	\$49,980	\$49,980	\$0	119365
R0170717	Residential	0157109119040	\$49,980	\$49,980	\$0	119365
R0170718	Residential	0157109119041	\$49,980	\$49,980	\$0	119365
R0170719	Residential	0157109119042	\$35,700	\$35,700	\$0	119374
R0170720	Residential	0157109119043	\$35,700	\$35,700	\$0	119374
R0170721	Residential	0157109117036	\$49,980	\$49,980	\$0	119365
R0170722	Residential	0157109117037	\$49,980	\$49,980	\$0	119365
R0170723	Residential	0157109117038	\$49,980	\$49,980	\$0	119365
R0170724	Residential	0157109117039	\$49,980	\$49,980	\$0	119365
R0170725	Residential	0157109117040	\$49,980	\$49,980	\$0	119365

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0170726	Residential	0157109117041	\$49,980	\$49,980	\$0	119365
R0170727	Residential	0157109117042	\$49,980	\$49,980	\$0	119365
R0170728	Residential	0157109117043	\$49,980	\$49,980	\$0	119365
R0170729	Residential	0157109117044	\$49,980	\$49,980	\$0	119365
R0170730	Residential	0157109117045	\$49,980	\$49,980	\$0	119365
R0170731	Residential	0157109117046	\$49,980	\$49,980	\$0	119365
R0170732	Residential	0157109117047	\$49,980	\$49,980	\$0	119365
R0170733	Residential	0157109117048	\$49,980	\$49,980	\$0	119365
R0170734	Residential	0157109117049	\$49,980	\$49,980	\$0	119365
R0170735	Residential	0157109117050	\$49,980	\$49,980	\$0	119365
R0170736	Residential	0157109117051	\$49,980	\$49,980	\$0	119365
R0170737	Residential	0157109117052	\$49,980	\$49,980	\$0	119365
R0170785	Residential	0157109119054	\$49,980	\$49,980	\$0	119365
R0170786	Residential	0157109119053	\$49,980	\$49,980	\$0	119365
R0170787	Residential	0157109119052	\$49,980	\$49,980	\$0	119365
R0170788	Residential	0157109119051	\$49,980	\$49,980	\$0	119365
R0170789	Residential	0157109119050	\$49,980	\$49,980	\$0	119365
R0170790	Residential	0157109119049	\$49,980	\$49,980	\$0	119365
R0170791	Residential	0157109119048	\$49,980	\$49,980	\$0	119365
R0170792	Residential	0157109119047	\$35,700	\$35,700	\$0	119374
R0170793	Residential	0157109119046	\$49,980	\$49,980	\$0	119365
R0170794	Residential	0157109119045	\$49,980	\$49,980	\$0	119365
R0170795	Residential	0157109119044	\$49,980	\$49,980	\$0	119365
R0170796	Residential	0157109120001	\$35,700	\$35,700	\$0	119374
R0170797	Residential	0157109120002	\$35,700	\$35,700	\$0	119374
R0170798	Residential	0157109120003	\$35,700	\$35,700	\$0	119374
R0170799	Residential	0157109120004	\$35,700	\$35,700	\$0	119374
R0170800	Residential	0157109120005	\$35,700	\$35,700	\$0	119374
R0170801	Residential	0157109120006	\$35,700	\$35,700	\$0	119374
R0170802	Residential	0157109120007	\$35,700	\$35,700	\$0	119374
R0170803	Residential	0157109120008	\$35,700	\$35,700	\$0	119374
R0170804	Residential	0157109120009	\$35,700	\$35,700	\$0	119374
R0172884	Commercial	0171931425022	\$1,674,691	\$1,674,691	\$0	119628
R0173569	Commercial	0157336315001	\$1,250,000	\$1,250,000	\$0	119383
R0173730	Commercial	0156921201003	\$7,371,282	\$7,371,282	\$0	119200
R0173756	Residential	0182336106001	\$42,656,986	\$42,656,986	\$0	119410
R0173757	Residential	0182336201002	\$45,976,053	\$45,976,053	\$0	119538
R0174675	Commercial	0157324418009	\$795,906	\$795,906	\$0	119621
R0174701	Commercial	0172316121013	\$800,002	\$800,002	\$0	119291
R0174706	Commercial	0156903322019	\$3,211,652	\$3,211,652	\$0	119730

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0175440	Commercial	0171933414018	\$1,368,144	\$1,368,144	\$0	119625
R0175491	Commercial	0171921103054	\$3,679,998	\$3,679,998	\$0	119332
R0175819	Commercial	0157328125004	\$1,108,800	\$1,108,800	\$0	119731
R0176082	Commercial	0171920412016	\$1,772,667	\$1,772,667	\$0	119631
R0176132	Residential	0172316401013	\$75,849	\$75,849	\$0	119366
R0176151	Residential	0172316402012	\$75,849	\$75,849	\$0	119366
R0176152	Residential	0172316402011	\$75,849	\$75,849	\$0	119366
R0176153	Residential	0172316402010	\$75,849	\$75,849	\$0	119366
R0176154	Residential	0172316402009	\$75,849	\$75,849	\$0	119366
R0176155	Residential	0172316402008	\$75,849	\$75,849	\$0	119366
R0176156	Residential	0172316402007	\$75,849	\$75,849	\$0	119366
R0176162	Residential	0172316402001	\$75,849	\$75,849	\$0	119366
R0176197	Residential	0172316404019	\$75,849	\$75,849	\$0	119366
R0176198	Residential	0172316404018	\$75,849	\$75,849	\$0	119366
R0176200	Residential	0172316404016	\$75,849	\$75,849	\$0	119366
R0176202	Residential	0172316404014	\$75,849	\$75,849	\$0	119366
R0176203	Residential	0172316404013	\$75,849	\$75,849	\$0	119366
R0176204	Residential	0172316404012	\$75,849	\$75,849	\$0	119366
R0176205	Residential	0172316404011	\$75,849	\$75,849	\$0	119366
R0176214	Residential	0172316404002	\$75,849	\$75,849	\$0	119366
R0176215	Residential	0172316410024	\$75,849	\$75,849	\$0	119366
R0176216	Residential	0172316410023	\$75,849	\$75,849	\$0	119366
R0176221	Residential	0172316410018	\$75,849	\$75,849	\$0	119366
R0176222	Residential	0172316410017	\$75,849	\$75,849	\$0	119366
R0176229	Residential	0172316410010	\$75,849	\$75,849	\$0	119366
R0176233	Residential	0172316410006	\$75,849	\$75,849	\$0	119366
R0176234	Residential	0172316410005	\$75,849	\$75,849	\$0	119366
R0176236	Residential	0172316410003	\$75,849	\$75,849	\$0	119366
R0176237	Residential	0172316410002	\$75,849	\$75,849	\$0	119366
R0176241	Residential	0172316409022	\$75,849	\$75,849	\$0	119366
R0176242	Residential	0172316409021	\$75,849	\$75,849	\$0	119366
R0176243	Residential	0172316409020	\$75,849	\$75,849	\$0	119366
R0176244	Residential	0172316409019	\$75,849	\$75,849	\$0	119366
R0176245	Residential	0172316409018	\$75,849	\$75,849	\$0	119366
R0176246	Residential	0172316409017	\$75,849	\$75,849	\$0	119366
R0176247	Residential	0172316409016	\$75,849	\$75,849	\$0	119366
R0176248	Residential	0172316409015	\$75,849	\$75,849	\$0	119366
R0176249	Residential	0172316409014	\$75,849	\$75,849	\$0	119366
R0176250	Residential	0172316409013	\$75,849	\$75,849	\$0	119366
R0176251	Residential	0172316409012	\$75,849	\$75,849	\$0	119366

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0176252	Residential	0172316409011	\$75,849	\$75,849	\$0	119366
R0176253	Residential	0172316409010	\$75,849	\$75,849	\$0	119366
R0176254	Residential	0172316409009	\$75,849	\$75,849	\$0	119366
R0176255	Residential	0172316409008	\$75,849	\$75,849	\$0	119366
R0176256	Residential	0172316409007	\$75,849	\$75,849	\$0	119366
R0176257	Residential	0172316409006	\$75,849	\$75,849	\$0	119366
R0176258	Residential	0172316409005	\$75,849	\$75,849	\$0	119366
R0176259	Residential	0172316409004	\$75,849	\$75,849	\$0	119366
R0176260	Residential	0172316409003	\$75,849	\$75,849	\$0	119366
R0176261	Residential	0172316409002	\$75,849	\$75,849	\$0	119366
R0176262	Residential	0172316409001	\$75,849	\$75,849	\$0	119366
R0176265	Residential	0172316405013	\$75,849	\$75,849	\$0	119366
R0176287	Residential	0172316407010	\$75,849	\$75,849	\$0	119366
R0176289	Residential	0172316407008	\$75,849	\$75,849	\$0	119366
R0176290	Residential	0172316407007	\$75,849	\$75,849	\$0	119366
R0176291	Residential	0172316407006	\$75,849	\$75,849	\$0	119366
R0176298	Residential	0172316406002	\$75,849	\$75,849	\$0	119366
R0176299	Residential	0172316406003	\$75,849	\$75,849	\$0	119366
R0176300	Residential	0172316406004	\$75,849	\$75,849	\$0	119366
R0176301	Residential	0172316406005	\$75,849	\$75,849	\$0	119366
R0176302	Residential	0172316411028	\$75,849	\$75,849	\$0	119366
R0176303	Residential	0172316411027	\$75,849	\$75,849	\$0	119366
R0176304	Residential	0172316411026	\$75,849	\$75,849	\$0	119366
R0176305	Residential	0172316411025	\$75,849	\$75,849	\$0	119366
R0176306	Residential	0172316411024	\$75,849	\$75,849	\$0	119366
R0176307	Residential	0172316411023	\$75,849	\$75,849	\$0	119366
R0176308	Residential	0172316411022	\$75,849	\$75,849	\$0	119366
R0176309	Residential	0172316411021	\$75,849	\$75,849	\$0	119366
R0176310	Residential	0172316411020	\$75,849	\$75,849	\$0	119366
R0176311	Residential	0172316411019	\$75,849	\$75,849	\$0	119366
R0176312	Residential	0172316411018	\$75,849	\$75,849	\$0	119366
R0176313	Residential	0172316411017	\$75,849	\$75,849	\$0	119366
R0176314	Residential	0172316411016	\$75,849	\$75,849	\$0	119366
R0176315	Residential	0172316411015	\$75,849	\$75,849	\$0	119366
R0176316	Residential	0172316411014	\$75,849	\$75,849	\$0	119366
R0176317	Residential	0172316411013	\$75,849	\$75,849	\$0	119366
R0176318	Residential	0172316411012	\$75,849	\$75,849	\$0	119366
R0176319	Residential	0172316411011	\$75,849	\$75,849	\$0	119366
R0176320	Residential	0172316411010	\$75,849	\$75,849	\$0	119366
R0176321	Residential	0172316411009	\$75,849	\$75,849	\$0	119366

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0176322	Residential	0172316411008	\$75,849	\$75,849	\$0	119366
R0176323	Residential	0172316411007	\$75,849	\$75,849	\$0	119366
R0176324	Residential	0172316411006	\$75,849	\$75,849	\$0	119366
R0176325	Residential	0172316411005	\$75,849	\$75,849	\$0	119366
R0176326	Residential	0172316411004	\$75,849	\$75,849	\$0	119366
R0176327	Residential	0172316411003	\$75,849	\$75,849	\$0	119366
R0176328	Residential	0172316411002	\$75,849	\$75,849	\$0	119366
R0176329	Residential	0172316411001	\$75,849	\$75,849	\$0	119366
R0176330	Residential	0172316412018	\$75,849	\$75,849	\$0	119366
R0176331	Residential	0172316412017	\$75,849	\$75,849	\$0	119366
R0176332	Residential	0172316412016	\$75,849	\$75,849	\$0	119366
R0176333	Residential	0172316412015	\$75,849	\$75,849	\$0	119366
R0176334	Residential	0172316412014	\$75,849	\$75,849	\$0	119366
R0176335	Residential	0172316412013	\$75,849	\$75,849	\$0	119366
R0176336	Residential	0172316412012	\$75,849	\$75,849	\$0	119366
R0176337	Residential	0172316412011	\$75,849	\$75,849	\$0	119366
R0176338	Residential	0172316412010	\$75,849	\$75,849	\$0	119366
R0176339	Residential	0172316412009	\$75,849	\$75,849	\$0	119366
R0176340	Residential	0172316412008	\$75,849	\$75,849	\$0	119366
R0176341	Residential	0172316412007	\$75,849	\$75,849	\$0	119366
R0176342	Residential	0172316412006	\$75,849	\$75,849	\$0	119366
R0176343	Residential	0172316412005	\$75,849	\$75,849	\$0	119366
R0176344	Residential	0172316412004	\$75,849	\$75,849	\$0	119366
R0176345	Residential	0172316412003	\$75,849	\$75,849	\$0	119366
R0176346	Residential	0172316412002	\$75,849	\$75,849	\$0	119366
R0176347	Residential	0172316412001	\$75,849	\$75,849	\$0	119366
R0176348	Residential	0172316413014	\$75,849	\$75,849	\$0	119366
R0176349	Residential	0172316413013	\$75,849	\$75,849	\$0	119366
R0176350	Residential	0172316413012	\$75,849	\$75,849	\$0	119366
R0176351	Residential	0172316413011	\$75,849	\$75,849	\$0	119366
R0176352	Residential	0172316413010	\$75,849	\$75,849	\$0	119366
R0176353	Residential	0172316413009	\$75,849	\$75,849	\$0	119366
R0176354	Residential	0172316413008	\$75,849	\$75,849	\$0	119366
R0176355	Residential	0172316413007	\$75,849	\$75,849	\$0	119366
R0176356	Residential	0172316413006	\$75,849	\$75,849	\$0	119366
R0176357	Residential	0172316413005	\$75,849	\$75,849	\$0	119366
R0176358	Residential	0172316413004	\$75,849	\$75,849	\$0	119366
R0176359	Residential	0172316413003	\$75,849	\$75,849	\$0	119366
R0176360	Residential	0172316413002	\$75,849	\$75,849	\$0	119366
R0176361	Residential	0172316413001	\$75,849	\$75,849	\$0	119366

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0176362	Residential	0172316414001	\$75,849	\$75,849	\$0	119366
R0176363	Residential	0172316414002	\$75,849	\$75,849	\$0	119366
R0176364	Residential	0172316414003	\$75,849	\$75,849	\$0	119366
R0176365	Residential	0172316414004	\$75,849	\$75,849	\$0	119366
R0176366	Residential	0172316414005	\$75,849	\$75,849	\$0	119366
R0176367	Residential	0172316414006	\$75,849	\$75,849	\$0	119366
R0176368	Residential	0172316414007	\$75,849	\$75,849	\$0	119366
R0176369	Residential	0172316415001	\$75,849	\$75,849	\$0	119366
R0176370	Residential	0172316415014	\$75,849	\$75,849	\$0	119366
R0176371	Residential	0172316415013	\$75,849	\$75,849	\$0	119366
R0176372	Residential	0172316415012	\$75,849	\$75,849	\$0	119366
R0176373	Residential	0172316415011	\$75,849	\$75,849	\$0	119366
R0176374	Residential	0172316415010	\$75,849	\$75,849	\$0	119366
R0176375	Residential	0172316415009	\$75,849	\$75,849	\$0	119366
R0176376	Residential	0172316415008	\$75,849	\$75,849	\$0	119366
R0176377	Residential	0172316415007	\$75,849	\$75,849	\$0	119366
R0176378	Residential	0172316415006	\$75,849	\$75,849	\$0	119366
R0176379	Residential	0172316415005	\$75,849	\$75,849	\$0	119366
R0176380	Residential	0172316415004	\$75,849	\$75,849	\$0	119366
R0176381	Residential	0172316415003	\$75,849	\$75,849	\$0	119366
R0176382	Residential	0172316415002	\$75,849	\$75,849	\$0	119366
R0176387	Residential	0172316417010	\$75,849	\$75,849	\$0	119366
R0176388	Residential	0172316417009	\$75,849	\$75,849	\$0	119366
R0176389	Residential	0172316417008	\$75,849	\$75,849	\$0	119366
R0176390	Residential	0172316417007	\$75,849	\$75,849	\$0	119366
R0176391	Residential	0172316417006	\$75,849	\$75,849	\$0	119366
R0176392	Residential	0172316417005	\$75,849	\$75,849	\$0	119366
R0176393	Residential	0172316417004	\$75,849	\$75,849	\$0	119366
R0176394	Residential	0172316417003	\$75,849	\$75,849	\$0	119366
R0176395	Residential	0172316417002	\$75,849	\$75,849	\$0	119366
R0176396	Residential	0172316417001	\$75,849	\$75,849	\$0	119366
R0176397	Residential	0172316416014	\$75,849	\$75,849	\$0	119366
R0176398	Residential	0172316416013	\$75,849	\$75,849	\$0	119366
R0176399	Residential	0172316416012	\$75,849	\$75,849	\$0	119366
R0176400	Residential	0172316416011	\$75,849	\$75,849	\$0	119366
R0176401	Residential	0172316416010	\$75,849	\$75,849	\$0	119366
R0176402	Residential	0172316416009	\$75,849	\$75,849	\$0	119366
R0176403	Residential	0172316416008	\$75,849	\$75,849	\$0	119366
R0176404	Residential	0172316416007	\$75,849	\$75,849	\$0	119366
R0176405	Residential	0172316416006	\$75,849	\$75,849	\$0	119366

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0176406	Residential	0172316416005	\$75,849	\$75,849	\$0	119366
R0176408	Residential	0172316416003	\$75,849	\$75,849	\$0	119366
R0176409	Residential	0172316416002	\$75,849	\$75,849	\$0	119366
R0176410	Residential	0172316416001	\$75,849	\$75,849	\$0	119366
R0176521	Commercial	0157129417007	\$1,565,000	\$1,565,000	\$0	119189
R0176601	Commercial	0171903305002	\$1,024,962	\$1,024,962	\$0	119727
R0177296	Commercial	0182507309003	\$1,033,409	\$1,033,409	\$0	119726
R0177298	Commercial	0182507309005	\$744,179	\$744,179	\$0	119728
R0177337	Industrial	0182307203004	\$3,500,000	\$3,500,000	\$0	119725
R0177783	Commercial	0172121104002	\$3,620,910	\$3,620,910	\$0	119802
R0177795	Commercial	0172121104006	\$2,748,429	\$2,748,429	\$0	119729
R0178209	Commercial	0172119308004	\$811,675	\$811,675	\$0	119384
R0178223	Commercial	0172120102002	\$1,549,754	\$1,549,754	\$0	119721
R0178225	Commercial	0172120102002	\$2,760,438	\$2,760,438	\$0	119721
R0178565	Commercial	0171926207041	\$2,087,096	\$2,087,096	\$0	119190
R0178568	Commercial	0172110320022	\$1,861,430	\$1,861,430	\$0	119191
R0178570	Commercial	0156905335004	\$681,319	\$681,319	\$0	119372
R0178792	Commercial	0172102206001	\$1,191,394	\$1,191,394	\$0	119724
R0178819	Commercial	0156921302001	\$3,267,088	\$3,267,088	\$0	119723
R0178862	Residential	0171922401007	\$16,394,400	\$16,394,400	\$0	119415
R0178863	Residential	0171922401008	\$41,624,322	\$41,624,322	\$0	119417
R0178864	Residential	0171922401009	\$1,181,132	\$1,181,132	\$0	119416
R0178865	Residential	0171922401010	\$8,299	\$8,299	\$0	119420
R0178959	Residential	0171914131004	\$106,578,000	\$106,578,000	\$0	119421
R0179053	Commercial	0182129213007	\$1,130,000	\$1,130,000	\$0	119624
R0179097	Commercial	0156918203002	\$1,622,390	\$1,622,390	\$0	119711
R0179233	Commercial	0171906101012	\$1,750,000	\$1,750,000	\$0	119713
R0179951	Commercial	0172122201016	\$2,877,751	\$2,877,751	\$0	119714
R0179965	Residential	0182336112001	\$61,092,480	\$61,092,480	\$0	119539
R0179966	Residential	0182336202001	\$56,754,567	\$56,754,567	\$0	119540
R0180006	Commercial	0182128102011	\$2,173,121	\$2,173,121	\$0	119716
R0180592	Commercial	0171927306016	\$1,463,597	\$1,463,597	\$0	119192
R0180888	Industrial	0182126404003	\$3,807,894	\$3,807,894	\$0	119717
R0180897	Commercial	0156908105119	\$1,837,498	\$1,837,498	\$0	119718
R0180952	Commercial	0182126101005	\$2,167,770	\$2,167,770	\$0	119719
R0180976	Commercial	0182509401006	\$5,181,038	\$5,181,038	\$0	119707
R0180978	Industrial	0182509101013	\$1,835,100	\$1,835,100	\$0	119710
R0180979	Industrial	0182509101014	\$1,094,576	\$1,094,576	\$0	119709
R0181257	Residential	0171933412005	\$34,655,813	\$34,655,813	\$0	119437
R0181331	Residential	0171924101040	\$1,664,892	\$1,664,892	\$0	119424

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0181762	Commercial	0171903109009	\$1,528,335	\$1,528,335	\$0	119435
R0181777	Commercial	0171923318035	\$509,931	\$509,931	\$0	119806
R0181779	Commercial	0171923318037	\$60,480	\$60,480	\$0	119806
R0181780	Commercial	0171923318038	\$879,938	\$879,938	\$0	119806
R0181781	Commercial	0171923318039	\$2,668,964	\$2,668,964	\$0	119806
R0181782	Commercial	0171923318040	\$218,928	\$218,928	\$0	119806
R0181790	Residential	0171903301009	\$65,485,304	\$65,485,304	\$0	119438
R0181943	Residential	0157315201010	\$43,308,480	\$43,308,480	\$0	119422
R0181944	Residential	0157315201011	\$66,649,794	\$66,649,794	\$0	119423
R0182023	Residential	0156910208036	\$83,405	\$83,405	\$0	119373
R0183542	Residential	0172105103031	\$59,869	\$59,869	\$0	119468
R0183780	Commercial	0157322101049	\$2,272,590	\$2,272,590	\$0	119720
R0184336	Residential	0157120203001	\$63,180	\$63,180	\$0	119375
R0184337	Residential	0157120203002	\$63,180	\$63,180	\$0	119375
R0184338	Residential	0157120203003	\$63,180	\$63,180	\$0	119375
R0184339	Residential	0157120203004	\$63,180	\$63,180	\$0	119375
R0184340	Residential	0157120203005	\$63,180	\$63,180	\$0	119375
R0184348	Residential	0157120203013	\$63,180	\$63,180	\$0	119375
R0184349	Residential	0157120203014	\$63,180	\$63,180	\$0	119375
R0184350	Residential	0157120203015	\$63,180	\$63,180	\$0	119375
R0184416	Residential	0157120206012	\$63,180	\$63,180	\$0	119375
R0184439	Residential	0157120208002	\$63,180	\$63,180	\$0	119375
R0184440	Residential	0157120208003	\$63,180	\$63,180	\$0	119375
R0184441	Residential	0157120208004	\$63,180	\$63,180	\$0	119375
R0184442	Residential	0157120208005	\$63,180	\$63,180	\$0	119375
R0184443	Residential	0157120208006	\$63,180	\$63,180	\$0	119375
R0184444	Residential	0157120208007	\$63,180	\$63,180	\$0	119375
R0184445	Residential	0157120208008	\$63,180	\$63,180	\$0	119375
R0184446	Residential	0157120208009	\$63,180	\$63,180	\$0	119375
R0184447	Residential	0157120208010	\$63,180	\$63,180	\$0	119375
R0184448	Residential	0157120208011	\$63,180	\$63,180	\$0	119375
R0184451	Residential	0157120209002	\$63,180	\$63,180	\$0	119375
R0184452	Residential	0157120209003	\$63,180	\$63,180	\$0	119375
R0184453	Residential	0157120209004	\$63,180	\$63,180	\$0	119375
R0184454	Residential	0157120209005	\$63,180	\$63,180	\$0	119375
R0184455	Residential	0157120209006	\$63,180	\$63,180	\$0	119375
R0184456	Residential	0157120209007	\$63,180	\$63,180	\$0	119375
R0184457	Residential	0157120209008	\$63,180	\$63,180	\$0	119375
R0184458	Residential	0157120209009	\$63,180	\$63,180	\$0	119375
R0184459	Residential	0157120209010	\$63,180	\$63,180	\$0	119375

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0184460	Residential	0157120209011	\$63,180	\$63,180	\$0	119375
R0184464	Residential	0157120209015	\$63,180	\$63,180	\$0	119375
R0184467	Residential	0157120209018	\$63,180	\$63,180	\$0	119375
R0184468	Residential	0157120209019	\$63,180	\$63,180	\$0	119375
R0184690	Commercial	0157130321022	\$4,596,831	\$4,596,831	\$0	119386
R0184706	Residential	0157109117120	\$35,700	\$35,700	\$0	119374
R0184707	Residential	0157109117121	\$35,700	\$35,700	\$0	119374
R0184708	Residential	0157109117122	\$35,700	\$35,700	\$0	119374
R0184709	Residential	0157109117123	\$35,700	\$35,700	\$0	119374
R0184710	Residential	0157109117124	\$35,700	\$35,700	\$0	119374
R0184711	Residential	0157109117125	\$35,700	\$35,700	\$0	119374
R0184712	Residential	0157109117126	\$35,700	\$35,700	\$0	119374
R0184713	Residential	0157109117127	\$35,700	\$35,700	\$0	119374
R0184714	Residential	0157109117128	\$49,980	\$49,980	\$0	119365
R0184715	Residential	0157109117129	\$49,980	\$49,980	\$0	119365
R0184716	Residential	0157109117130	\$49,980	\$49,980	\$0	119365
R0184717	Residential	0157109117131	\$49,980	\$49,980	\$0	119365
R0184718	Residential	0157109117132	\$49,980	\$49,980	\$0	119365
R0184719	Residential	0157109117133	\$49,980	\$49,980	\$0	119365
R0184720	Residential	0157109117134	\$49,980	\$49,980	\$0	119365
R0184721	Residential	0157109117135	\$49,980	\$49,980	\$0	119365
R0184722	Residential	0157109117136	\$49,980	\$49,980	\$0	119365
R0184723	Residential	0157109117137	\$49,980	\$49,980	\$0	119365
R0184724	Residential	0157109117138	\$49,980	\$49,980	\$0	119365
R0184725	Residential	0157109117139	\$49,980	\$49,980	\$0	119365
R0184726	Residential	0157109117140	\$49,980	\$49,980	\$0	119365
R0184727	Residential	0157109117141	\$49,980	\$49,980	\$0	119365
R0184728	Residential	0157109117142	\$49,980	\$49,980	\$0	119365
R0184729	Residential	0157109117143	\$49,980	\$49,980	\$0	119365
R0184730	Residential	0157109117144	\$35,700	\$35,700	\$0	119374
R0184731	Residential	0157109117145	\$49,980	\$49,980	\$0	119365
R0184732	Residential	0157109117146	\$49,980	\$49,980	\$0	119365
R0184733	Residential	0157109117147	\$49,980	\$49,980	\$0	119365
R0184734	Residential	0157109117148	\$49,980	\$49,980	\$0	119365
R0184735	Residential	0157109117149	\$49,980	\$49,980	\$0	119365
R0184736	Residential	0157109117150	\$49,980	\$49,980	\$0	119365
R0184737	Residential	0157109117151	\$49,980	\$49,980	\$0	119365
R0184738	Residential	0157109117152	\$35,700	\$35,700	\$0	119374
R0184739	Residential	0157109117153	\$49,980	\$49,980	\$0	119365
R0184740	Residential	0157109117154	\$49,980	\$49,980	\$0	119365

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0184741	Residential	0157109117155	\$49,980	\$49,980	\$0	119365
R0184742	Residential	0157109117156	\$49,980	\$49,980	\$0	119365
R0184743	Residential	0157109117157	\$49,980	\$49,980	\$0	119365
R0184744	Residential	0157109117158	\$49,980	\$49,980	\$0	119365
R0184745	Residential	0157109117159	\$49,980	\$49,980	\$0	119365
R0184746	Residential	0157109117160	\$49,980	\$49,980	\$0	119365
R0184747	Residential	0157109117161	\$35,700	\$35,700	\$0	119374
R0184748	Residential	0157109117162	\$35,700	\$35,700	\$0	119374
R0184749	Residential	0157109117163	\$35,700	\$35,700	\$0	119374
R0184750	Residential	0157109117164	\$35,700	\$35,700	\$0	119374
R0184751	Residential	0157109117165	\$35,700	\$35,700	\$0	119374
R0184752	Residential	0157109117166	\$35,700	\$35,700	\$0	119374
R0184753	Residential	0157109117167	\$35,700	\$35,700	\$0	119374
R0184754	Residential	0157109117168	\$35,700	\$35,700	\$0	119374
R0184755	Residential	0157109117169	\$35,700	\$35,700	\$0	119374
R0184756	Residential	0157109117170	\$35,700	\$35,700	\$0	119374
R0184757	Residential	0157109117171	\$35,700	\$35,700	\$0	119374
R0184758	Residential	0157109117172	\$35,700	\$35,700	\$0	119374
R0184759	Residential	0157109117173	\$35,700	\$35,700	\$0	119374
R0184760	Residential	0157109117174	\$35,700	\$35,700	\$0	119374
R0184761	Residential	0157109117175	\$35,700	\$35,700	\$0	119374
R0184762	Residential	0157109117176	\$35,700	\$35,700	\$0	119374
R0184763	Residential	0157109117177	\$35,700	\$35,700	\$0	119374
R0184764	Residential	0157109117178	\$35,700	\$35,700	\$0	119374
R0184765	Residential	0157109117179	\$35,700	\$35,700	\$0	119374
R0184766	Residential	0157109117180	\$35,700	\$35,700	\$0	119374
R0184767	Residential	0157109117181	\$35,700	\$35,700	\$0	119374
R0184768	Residential	0157109117182	\$35,700	\$35,700	\$0	119374
R0184769	Residential	0157109117183	\$35,700	\$35,700	\$0	119374
R0184770	Residential	0157109117184	\$35,700	\$35,700	\$0	119374
R0184771	Residential	0157109117185	\$35,700	\$35,700	\$0	119374
R0184772	Residential	0157109117186	\$35,700	\$35,700	\$0	119374
R0184773	Residential	0157109117187	\$35,700	\$35,700	\$0	119374
R0184774	Residential	0157109117188	\$35,700	\$35,700	\$0	119374
R0184775	Residential	0157109117189	\$35,700	\$35,700	\$0	119374
R0184776	Residential	0157109117190	\$35,700	\$35,700	\$0	119374
R0184777	Residential	0157109117191	\$35,700	\$35,700	\$0	119374
R0184778	Residential	0157109117192	\$35,700	\$35,700	\$0	119374
R0184779	Residential	0157109117193	\$35,700	\$35,700	\$0	119374
R0184780	Residential	0157109117194	\$35,700	\$35,700	\$0	119374

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0184781	Residential	0157109117195	\$35,700	\$35,700	\$0	119374
R0184782	Residential	0157109117196	\$35,700	\$35,700	\$0	119374
R0184783	Residential	0157109117197	\$35,700	\$35,700	\$0	119374
R0184784	Residential	0157109117198	\$35,700	\$35,700	\$0	119374
R0184785	Residential	0157109117199	\$35,700	\$35,700	\$0	119374
R0184786	Residential	0157109117200	\$35,700	\$35,700	\$0	119374
R0184787	Residential	0157109117201	\$35,700	\$35,700	\$0	119374
R0184788	Residential	0157109117202	\$35,700	\$35,700	\$0	119374
R0184789	Residential	0157109117203	\$35,700	\$35,700	\$0	119374
R0184790	Residential	0157109117204	\$35,700	\$35,700	\$0	119374
R0184791	Residential	0157109117205	\$35,700	\$35,700	\$0	119374
R0184792	Residential	0157109117206	\$35,700	\$35,700	\$0	119374
R0184793	Residential	0157109117207	\$35,700	\$35,700	\$0	119374
R0184794	Residential	0157109117208	\$35,700	\$35,700	\$0	119374
R0184795	Residential	0157109117209	\$35,700	\$35,700	\$0	119374
R0184796	Residential	0157109117210	\$35,700	\$35,700	\$0	119374
R0184797	Residential	0157109117211	\$35,700	\$35,700	\$0	119374
R0184798	Residential	0157109117212	\$35,700	\$35,700	\$0	119374
R0184799	Residential	0157109117213	\$35,700	\$35,700	\$0	119374
R0184800	Residential	0157109117214	\$35,700	\$35,700	\$0	119374
R0184801	Residential	0157109117215	\$35,700	\$35,700	\$0	119374
R0184802	Residential	0157109117216	\$35,700	\$35,700	\$0	119374
R0184803	Residential	0157109117217	\$35,700	\$35,700	\$0	119374
R0184809	Residential	0157109118012	\$35,700	\$35,700	\$0	119374
R0184810	Residential	0157109118013	\$35,700	\$35,700	\$0	119374
R0184811	Residential	0157109118014	\$35,700	\$35,700	\$0	119374
R0184812	Residential	0157109118015	\$35,700	\$35,700	\$0	119374
R0184813	Residential	0157109118016	\$35,700	\$35,700	\$0	119374
R0184814	Residential	0157109118017	\$35,700	\$35,700	\$0	119374
R0184815	Residential	0157109118018	\$35,700	\$35,700	\$0	119374
R0184816	Residential	0157109118019	\$35,700	\$35,700	\$0	119374
R0184817	Residential	0157109118020	\$35,700	\$35,700	\$0	119374
R0184818	Residential	0157109118021	\$35,700	\$35,700	\$0	119374
R0184819	Residential	0157109119062	\$49,980	\$49,980	\$0	119365
R0184820	Residential	0157109119063	\$49,980	\$49,980	\$0	119365
R0184821	Residential	0157109119064	\$49,980	\$49,980	\$0	119365
R0184822	Residential	0157109119065	\$49,980	\$49,980	\$0	119365
R0184823	Residential	0157109119066	\$49,980	\$49,980	\$0	119365
R0184824	Residential	0157109119067	\$49,980	\$49,980	\$0	119365
R0184825	Residential	0157109119068	\$49,980	\$49,980	\$0	119365

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0184826	Residential	0157109119069	\$49,980	\$49,980	\$0	119365
R0184827	Residential	0157109119070	\$49,980	\$49,980	\$0	119365
R0184828	Residential	0157109119071	\$49,980	\$49,980	\$0	119365
R0184829	Residential	0157109119072	\$49,980	\$49,980	\$0	119365
R0184830	Residential	0157109119073	\$49,980	\$49,980	\$0	119365
R0184831	Residential	0157109119074	\$49,980	\$49,980	\$0	119365
R0184832	Residential	0157109119075	\$49,980	\$49,980	\$0	119365
R0184833	Residential	0157109119076	\$49,980	\$49,980	\$0	119365
R0184834	Residential	0157109119077	\$49,980	\$49,980	\$0	119365
R0184835	Residential	0157109119078	\$49,980	\$49,980	\$0	119365
R0184836	Residential	0157109119079	\$49,980	\$49,980	\$0	119365
R0184837	Residential	0157109119080	\$49,980	\$49,980	\$0	119365
R0184838	Residential	0157109119081	\$49,980	\$49,980	\$0	119365
R0184839	Residential	0157109119082	\$49,980	\$49,980	\$0	119365
R0184840	Residential	0157109119083	\$49,980	\$49,980	\$0	119365
R0184841	Residential	0157109119084	\$49,980	\$49,980	\$0	119365
R0184842	Residential	0157109119085	\$49,980	\$49,980	\$0	119365
R0184843	Residential	0157109119086	\$49,980	\$49,980	\$0	119365
R0184844	Residential	0157109119087	\$49,980	\$49,980	\$0	119365
R0184845	Residential	0157109119088	\$49,980	\$49,980	\$0	119365
R0184846	Residential	0157109119089	\$49,980	\$49,980	\$0	119365
R0184847	Residential	0157109119090	\$49,980	\$49,980	\$0	119365
R0184848	Residential	0157109119091	\$49,980	\$49,980	\$0	119365
R0184849	Residential	0157109119092	\$49,980	\$49,980	\$0	119365
R0184850	Residential	0157109119093	\$49,980	\$49,980	\$0	119365
R0184851	Residential	0157109119094	\$49,980	\$49,980	\$0	119365
R0184853	Residential	0157109121037	\$35,700	\$35,700	\$0	119374
R0184854	Residential	0157109121038	\$35,700	\$35,700	\$0	119374
R0184855	Residential	0157109121039	\$35,700	\$35,700	\$0	119374
R0184856	Residential	0157109121040	\$35,700	\$35,700	\$0	119374
R0184857	Residential	0157109121041	\$35,700	\$35,700	\$0	119374
R0184858	Residential	0157109121042	\$35,700	\$35,700	\$0	119374
R0184859	Residential	0157109121043	\$35,700	\$35,700	\$0	119374
R0184860	Residential	0157109121044	\$35,700	\$35,700	\$0	119374
R0184861	Residential	0157109121045	\$35,700	\$35,700	\$0	119374
R0184862	Residential	0157109121046	\$35,700	\$35,700	\$0	119374
R0184863	Residential	0157109121047	\$35,700	\$35,700	\$0	119374
R0184864	Residential	0157109121048	\$35,700	\$35,700	\$0	119374
R0184865	Residential	0157109121049	\$35,700	\$35,700	\$0	119374
R0184866	Residential	0157109121050	\$35,700	\$35,700	\$0	119374

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0184867	Residential	0157109121051	\$35,700	\$35,700	\$0	119374
R0184868	Residential	0157109121052	\$35,700	\$35,700	\$0	119374
R0184869	Residential	0157109121053	\$35,700	\$35,700	\$0	119374
R0184870	Residential	0157109121054	\$35,700	\$35,700	\$0	119374
R0184871	Residential	0157109121055	\$35,700	\$35,700	\$0	119374
R0184872	Residential	0157109121056	\$35,700	\$35,700	\$0	119374
R0184873	Residential	0157109121057	\$35,700	\$35,700	\$0	119374
R0184874	Residential	0157109121058	\$35,700	\$35,700	\$0	119374
R0184875	Residential	0157109121059	\$35,700	\$35,700	\$0	119374
R0184876	Residential	0157109121060	\$35,700	\$35,700	\$0	119374
R0184877	Residential	0157109121061	\$35,700	\$35,700	\$0	119374
R0184878	Residential	0157109121062	\$35,700	\$35,700	\$0	119374
R0184879	Residential	0157109121063	\$35,700	\$35,700	\$0	119374
R0184880	Residential	0157109121064	\$35,700	\$35,700	\$0	119374
R0184881	Residential	0157109121065	\$35,700	\$35,700	\$0	119374
R0184882	Residential	0157109121066	\$35,700	\$35,700	\$0	119374
R0184883	Residential	0157109121067	\$35,700	\$35,700	\$0	119374
R0184884	Residential	0157109121068	\$35,700	\$35,700	\$0	119374
R0184885	Residential	0157109121069	\$35,700	\$35,700	\$0	119374
R0184886	Residential	0157109121070	\$35,700	\$35,700	\$0	119374
R0184901	Residential	0157109417014	\$49,980	\$49,980	\$0	119365
R0184902	Residential	0157109417015	\$49,980	\$49,980	\$0	119365
R0184903	Residential	0157109417016	\$49,980	\$49,980	\$0	119365
R0184904	Residential	0157109417017	\$49,980	\$49,980	\$0	119365
R0184905	Residential	0157109417018	\$49,980	\$49,980	\$0	119365
R0184906	Residential	0157109417019	\$49,980	\$49,980	\$0	119365
R0184907	Residential	0157109417020	\$49,980	\$49,980	\$0	119365
R0184937	Residential	0157109419046	\$35,700	\$35,700	\$0	119374
R0184938	Residential	0157109419047	\$35,700	\$35,700	\$0	119374
R0184939	Residential	0157109419048	\$49,980	\$49,980	\$0	119365
R0184940	Residential	0157109419049	\$49,980	\$49,980	\$0	119365
R0184941	Residential	0157109419050	\$49,980	\$49,980	\$0	119365
R0184942	Residential	0157109419051	\$49,980	\$49,980	\$0	119365
R0185920	Commercial	0182502303014	\$1,973,025	\$1,973,025	\$0	119697
R0186135	Commercial	0171914117005	\$1,799,170	\$1,799,170	\$0	119295
R0187864	Residential	0171935113003	\$328,926	\$328,926	\$0	119503
R0187865	Commercial	0171935113002	\$12,872,000	\$12,872,000	\$0	119498
R0188112	Commercial	0182516202028	\$1,055,719	\$1,055,719	\$0	119692
R0188139	Residential	0172305105025	\$572,424	\$572,424	\$0	119197
R0188147	Commercial	0157332401027	\$965,563	\$965,563	\$0	119620

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0188148	Commercial	0157332401028	\$1,064,223	\$1,064,223	\$0	119695
R0189332	Commercial	0182126103002	\$32,544,883	\$32,544,883	\$0	119496
R0190199	Residential	0182305322019	\$440,842	\$440,842	\$0	119306
R0190480	Residential	0157335301023	\$40,612,865	\$40,612,865	\$0	119292
R0190483	Industrial	0182129402004	\$19,520,600	\$19,520,600	\$0	119497
R0190879	Commercial	0156918203008	\$1,747,141	\$1,747,141	\$0	119699
R0191098	Commercial	0182127101002	\$11,860,510	\$11,860,510	\$0	119252
R0192003	Residential	0157118401031	\$63,180	\$63,180	\$0	119367
R0192004	Residential	0157118401032	\$63,180	\$63,180	\$0	119367
R0192005	Residential	0157118401033	\$63,180	\$63,180	\$0	119367
R0192006	Residential	0157118401034	\$63,180	\$63,180	\$0	119367
R0192007	Residential	0157118401035	\$63,180	\$63,180	\$0	119367
R0192008	Residential	0157118401036	\$63,180	\$63,180	\$0	119367
R0192009	Residential	0157118401037	\$63,180	\$63,180	\$0	119367
R0192010	Residential	0157118401038	\$63,180	\$63,180	\$0	119367
R0192011	Residential	0157118401039	\$63,180	\$63,180	\$0	119367
R0192012	Residential	0157118401040	\$63,180	\$63,180	\$0	119367
R0192013	Residential	0157118401041	\$63,180	\$63,180	\$0	119367
R0192014	Residential	0157118401042	\$63,180	\$63,180	\$0	119367
R0192015	Residential	0157118401043	\$63,180	\$63,180	\$0	119367
R0192017	Residential	0157118401045	\$63,180	\$63,180	\$0	119367
R0192018	Residential	0157118401046	\$63,180	\$63,180	\$0	119367
R0192019	Residential	0157118401047	\$63,180	\$63,180	\$0	119367
R0192020	Residential	0157118401048	\$63,180	\$63,180	\$0	119367
R0192036	Residential	0157118401064	\$63,180	\$63,180	\$0	119367
R0192186	Residential	0157118415001	\$63,180	\$63,180	\$0	119367
R0192187	Residential	0157118415002	\$63,180	\$63,180	\$0	119367
R0192188	Residential	0157118415003	\$63,180	\$63,180	\$0	119367
R0192189	Residential	0157118415004	\$63,180	\$63,180	\$0	119367
R0192190	Residential	0157118415005	\$63,180	\$63,180	\$0	119367
R0192191	Residential	0157118415006	\$63,180	\$63,180	\$0	119367
R0192192	Residential	0157118415007	\$63,180	\$63,180	\$0	119367
R0192193	Residential	0157118415008	\$63,180	\$63,180	\$0	119367
R0192195	Residential	0157118415010	\$63,180	\$63,180	\$0	119367
R0192196	Residential	0157118415011	\$63,180	\$63,180	\$0	119367
R0192197	Residential	0157118415012	\$63,180	\$63,180	\$0	119367
R0192198	Residential	0157118415013	\$63,180	\$63,180	\$0	119367
R0192199	Residential	0157118415014	\$63,180	\$63,180	\$0	119367
R0192200	Residential	0157118415015	\$63,180	\$63,180	\$0	119367
R0192201	Residential	0157118415016	\$63,180	\$63,180	\$0	119367

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0192202	Residential	0157118415017	\$63,180	\$63,180	\$0	119367
R0192203	Residential	0157118415018	\$63,180	\$63,180	\$0	119367
R0192204	Residential	0157118415019	\$63,180	\$63,180	\$0	119367
R0192205	Residential	0157118416001	\$63,180	\$63,180	\$0	119367
R0192206	Residential	0157118416002	\$63,180	\$63,180	\$0	119367
R0192207	Residential	0157118416003	\$63,180	\$63,180	\$0	119367
R0192208	Residential	0157118416004	\$63,180	\$63,180	\$0	119367
R0192209	Residential	0157118416005	\$63,180	\$63,180	\$0	119367
R0192210	Residential	0157118416006	\$63,180	\$63,180	\$0	119367
R0192211	Residential	0157118416007	\$63,180	\$63,180	\$0	119367
R0192212	Residential	0157118416008	\$63,180	\$63,180	\$0	119367
R0192213	Residential	0157118416009	\$63,180	\$63,180	\$0	119367
R0192214	Residential	0157118416010	\$63,180	\$63,180	\$0	119367
R0192215	Residential	0157118416011	\$63,180	\$63,180	\$0	119367
R0192216	Residential	0157118417001	\$63,180	\$63,180	\$0	119367
R0192217	Residential	0157118417002	\$63,180	\$63,180	\$0	119367
R0192218	Residential	0157118417003	\$63,180	\$63,180	\$0	119367
R0192219	Residential	0157118417004	\$63,180	\$63,180	\$0	119367
R0192220	Residential	0157118417005	\$63,180	\$63,180	\$0	119367
R0192221	Residential	0157118417006	\$63,180	\$63,180	\$0	119367
R0192222	Residential	0157118417007	\$63,180	\$63,180	\$0	119367
R0192223	Residential	0157118417008	\$63,180	\$63,180	\$0	119367
R0192224	Residential	0157118417009	\$63,180	\$63,180	\$0	119367
R0192225	Residential	0157118417010	\$63,180	\$63,180	\$0	119367
R0192226	Residential	0157118418001	\$63,180	\$63,180	\$0	119367
R0192231	Residential	0157118418006	\$63,180	\$63,180	\$0	119367
R0192232	Residential	0157118418007	\$63,180	\$63,180	\$0	119367
R0192233	Residential	0157118418008	\$63,180	\$63,180	\$0	119367
R0192234	Residential	0157118418009	\$63,180	\$63,180	\$0	119367
R0192235	Residential	0157118419001	\$63,180	\$63,180	\$0	119367
R0192236	Residential	0157118419002	\$63,180	\$63,180	\$0	119367
R0192237	Residential	0157118419003	\$63,180	\$63,180	\$0	119367
R0192238	Residential	0157118419004	\$63,180	\$63,180	\$0	119367
R0192239	Residential	0157118419005	\$63,180	\$63,180	\$0	119367
R0192240	Residential	0157118419006	\$63,180	\$63,180	\$0	119367
R0192251	Residential	0157118420010	\$63,180	\$63,180	\$0	119367
R0192252	Residential	0157118420011	\$63,180	\$63,180	\$0	119367
R0192253	Residential	0157118420012	\$63,180	\$63,180	\$0	119367
R0192254	Residential	0157118420013	\$63,180	\$63,180	\$0	119367
R0192255	Residential	0157118420014	\$63,180	\$63,180	\$0	119367

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0192259	Residential	0157118421003	\$63,180	\$63,180	\$0	119367
R0192260	Residential	0157118421004	\$63,180	\$63,180	\$0	119367
R0192261	Residential	0157118421005	\$63,180	\$63,180	\$0	119367
R0192262	Residential	0157118421006	\$63,180	\$63,180	\$0	119367
R0192263	Residential	0157118421007	\$63,180	\$63,180	\$0	119367
R0192264	Residential	0157118421008	\$63,180	\$63,180	\$0	119367
R0192265	Residential	0157118421009	\$63,180	\$63,180	\$0	119367
R0192266	Residential	0157118421010	\$63,180	\$63,180	\$0	119367
R0192274	Residential	0157118422001	\$63,180	\$63,180	\$0	119367
R0192275	Residential	0157118422002	\$63,180	\$63,180	\$0	119367
R0192276	Residential	0157118422003	\$63,180	\$63,180	\$0	119367
R0192277	Residential	0157118422004	\$63,180	\$63,180	\$0	119367
R0192278	Residential	0157118422005	\$63,180	\$63,180	\$0	119367
R0192279	Residential	0157118422006	\$63,180	\$63,180	\$0	119367
R0192284	Residential	0157118422011	\$63,180	\$63,180	\$0	119367
R0192294	Residential	0157118422021	\$63,180	\$63,180	\$0	119367
R0192301	Residential	0157118422028	\$63,180	\$63,180	\$0	119367
R0192302	Residential	0157118422029	\$63,180	\$63,180	\$0	119367
R0192303	Residential	0157118422030	\$63,180	\$63,180	\$0	119367
R0192304	Residential	0157118422031	\$63,180	\$63,180	\$0	119367
R0192305	Residential	0157118422032	\$63,180	\$63,180	\$0	119367
R0192306	Residential	0157118422033	\$63,180	\$63,180	\$0	119367
R0192307	Residential	0157118422034	\$63,180	\$63,180	\$0	119367
R0192308	Residential	0157118422035	\$63,180	\$63,180	\$0	119367
R0192309	Residential	0157118422036	\$63,180	\$63,180	\$0	119367
R0192310	Residential	0157118422037	\$63,180	\$63,180	\$0	119367
R0192311	Residential	0157118422038	\$63,180	\$63,180	\$0	119367
R0192312	Residential	0157118422039	\$63,180	\$63,180	\$0	119367
R0192313	Residential	0157118422040	\$63,180	\$63,180	\$0	119367
R0192314	Residential	0157118422041	\$63,180	\$63,180	\$0	119367
R0192315	Residential	0157118422042	\$63,180	\$63,180	\$0	119367
R0192316	Residential	0157118422043	\$63,180	\$63,180	\$0	119367
R0192317	Residential	0157118422044	\$63,180	\$63,180	\$0	119367
R0192318	Residential	0157118422045	\$63,180	\$63,180	\$0	119367
R0192319	Residential	0157118422046	\$63,180	\$63,180	\$0	119367
R0192320	Residential	0157118422047	\$63,180	\$63,180	\$0	119367
R0192321	Residential	0157118422048	\$63,180	\$63,180	\$0	119367
R0192322	Residential	0157118422049	\$63,180	\$63,180	\$0	119367
R0192323	Residential	0157118422050	\$63,180	\$63,180	\$0	119367
R0192338	Residential	0157118423002	\$63,180	\$63,180	\$0	119367

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0192339	Residential	0157118423003	\$63,180	\$63,180	\$0	119367
R0192340	Residential	0157118423004	\$63,180	\$63,180	\$0	119367
R0192341	Residential	0157118423005	\$63,180	\$63,180	\$0	119367
R0192342	Residential	0157118423006	\$63,180	\$63,180	\$0	119367
R0192343	Residential	0157118423007	\$63,180	\$63,180	\$0	119367
R0192348	Residential	0157118423012	\$63,180	\$63,180	\$0	119367
R0192349	Residential	0157118423013	\$63,180	\$63,180	\$0	119367
R0192350	Residential	0157118423014	\$63,180	\$63,180	\$0	119367
R0192351	Residential	0157118424001	\$63,180	\$63,180	\$0	119367
R0192352	Residential	0157118424002	\$63,180	\$63,180	\$0	119367
R0192353	Residential	0157118424003	\$63,180	\$63,180	\$0	119367
R0192365	Residential	0157118425001	\$63,180	\$63,180	\$0	119367
R0192377	Residential	0157118425013	\$63,180	\$63,180	\$0	119367
R0192378	Residential	0157118426001	\$63,180	\$63,180	\$0	119367
R0192379	Residential	0157118426002	\$63,180	\$63,180	\$0	119367
R0192380	Residential	0157118426003	\$63,180	\$63,180	\$0	119367
R0192381	Residential	0157118426004	\$63,180	\$63,180	\$0	119367
R0192382	Residential	0157118426005	\$63,180	\$63,180	\$0	119367
R0192383	Residential	0157118426006	\$63,180	\$63,180	\$0	119367
R0192384	Residential	0157118426007	\$63,180	\$63,180	\$0	119367
R0192385	Residential	0157118426008	\$63,180	\$63,180	\$0	119367
R0192386	Residential	0157118426009	\$63,180	\$63,180	\$0	119367
R0192387	Residential	0157118426010	\$63,180	\$63,180	\$0	119367
R0192388	Residential	0157118426011	\$63,180	\$63,180	\$0	119367
R0192389	Residential	0157118426012	\$63,180	\$63,180	\$0	119367
R0192390	Residential	0157118426013	\$63,180	\$63,180	\$0	119367
R0192391	Residential	0157118426014	\$63,180	\$63,180	\$0	119367
R0192462	Commercial	0172106117012	\$1,296,049	\$1,296,049	\$0	119385
R0192467	Commercial	0171913113009	\$2,417,107	\$2,417,107	\$0	119357
R0192485	Commercial	0171915415007	\$4,400,158	\$4,400,158	\$0	119281
R0193024	Residential	0157120203031	\$63,180	\$63,180	\$0	119375
R0193025	Residential	0157120203032	\$63,180	\$63,180	\$0	119375
R0193026	Residential	0157120203033	\$63,180	\$63,180	\$0	119375
R0193027	Residential	0157120203034	\$63,180	\$63,180	\$0	119375
R0193028	Residential	0157120203035	\$63,180	\$63,180	\$0	119375
R0193029	Residential	0157120203036	\$63,180	\$63,180	\$0	119375
R0193035	Residential	0157120206024	\$63,180	\$63,180	\$0	119375
R0193041	Residential	0157120206030	\$63,180	\$63,180	\$0	119375
R0193045	Residential	0157120206034	\$63,180	\$63,180	\$0	119375
R0193056	Residential	0157120206045	\$63,180	\$63,180	\$0	119375

**Adams County Board of Equalization Protest
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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0193066	Residential	0157120208013	\$63,180	\$63,180	\$0	119375
R0193073	Residential	0157120210016	\$63,180	\$63,180	\$0	119375
R0193077	Residential	0157120210020	\$63,180	\$63,180	\$0	119375
R0193081	Residential	0157120210024	\$63,180	\$63,180	\$0	119375
R0193082	Residential	0157120210025	\$63,180	\$63,180	\$0	119375
R0193087	Residential	0157120210030	\$63,180	\$63,180	\$0	119375
R0193199	Residential	0157120216013	\$63,180	\$63,180	\$0	119375
R0193201	Residential	0157120216015	\$63,180	\$63,180	\$0	119375
R0193209	Residential	0157120217012	\$63,180	\$63,180	\$0	119375
R0193210	Residential	0157120217013	\$63,180	\$63,180	\$0	119375
R0193212	Residential	0157120217015	\$63,180	\$63,180	\$0	119375
R0193215	Residential	0157120217018	\$63,180	\$63,180	\$0	119375
R0193217	Residential	0157120218007	\$63,180	\$63,180	\$0	119375
R0193218	Residential	0157120218008	\$63,180	\$63,180	\$0	119375
R0193219	Residential	0157120218009	\$63,180	\$63,180	\$0	119375
R0193220	Residential	0157120218010	\$63,180	\$63,180	\$0	119375
R0193221	Residential	0157120218011	\$63,180	\$63,180	\$0	119375
R0193225	Residential	0157120219037	\$63,180	\$63,180	\$0	119375
R0193226	Residential	0157120219038	\$63,180	\$63,180	\$0	119375
R0193231	Residential	0157120219043	\$63,180	\$63,180	\$0	119375
R0193238	Residential	0157120219050	\$63,180	\$63,180	\$0	119375
R0193239	Residential	0157120219051	\$63,180	\$63,180	\$0	119375
R0193242	Residential	0157120219054	\$63,180	\$63,180	\$0	119375
R0193263	Residential	0157120222001	\$63,180	\$63,180	\$0	119375
R0193264	Residential	0157120222002	\$63,180	\$63,180	\$0	119375
R0193265	Residential	0157120222003	\$63,180	\$63,180	\$0	119375
R0193517	Commercial	0171911324001	\$1,218,375	\$1,218,375	\$0	119504
R0193833	Commercial	0157327101013	\$1,327,203	\$1,327,203	\$0	119703
R0194196	Commercial	0171916202056	\$5,300,000	\$5,300,000	\$0	119700
R0194211	Commercial	0156911305018	\$31,532,549	\$31,532,549	\$0	119778
R0194277	Commercial	0172328302002	\$42,050,000	\$42,050,000	\$0	119463
R0194300	Commercial	0171904101016	\$14,000,000	\$14,000,000	\$0	119259
R0194301	Commercial	0171904101017	\$8,089,714	\$8,089,714	\$0	119260
R0194890	Residential	0182504318005	\$535,200	\$535,200	\$0	119196
R0194937	Residential	0156902101068	\$75,953	\$75,953	\$0	119376
R0194938	Residential	0156902101069	\$75,953	\$75,953	\$0	119376
R0194939	Residential	0156902101070	\$75,953	\$75,953	\$0	119376
R0194940	Residential	0156902101071	\$75,953	\$75,953	\$0	119376
R0194941	Residential	0156902101072	\$75,953	\$75,953	\$0	119376
R0194942	Residential	0156902101073	\$75,953	\$75,953	\$0	119376

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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0194943	Residential	0156902101074	\$75,953	\$75,953	\$0	119376
R0194944	Residential	0156902101075	\$75,953	\$75,953	\$0	119376
R0194945	Residential	0156902101076	\$75,953	\$75,953	\$0	119376
R0194946	Residential	0156902101077	\$75,953	\$75,953	\$0	119376
R0194947	Residential	0156902101078	\$75,953	\$75,953	\$0	119376
R0194948	Residential	0156902101079	\$75,953	\$75,953	\$0	119376
R0194949	Residential	0156902101080	\$75,953	\$75,953	\$0	119376
R0194950	Residential	0156902101081	\$75,953	\$75,953	\$0	119376
R0194951	Residential	0156902101082	\$75,953	\$75,953	\$0	119376
R0194952	Residential	0156902101083	\$75,953	\$75,953	\$0	119376
R0194953	Residential	0156902101084	\$75,953	\$75,953	\$0	119376
R0194954	Residential	0156902101085	\$56,965	\$56,965	\$0	119377
R0194955	Residential	0156902101086	\$56,965	\$56,965	\$0	119377
R0194956	Residential	0156902101087	\$56,965	\$56,965	\$0	119377
R0194957	Residential	0156902101088	\$56,965	\$56,965	\$0	119377
R0194958	Residential	0156902101089	\$56,965	\$56,965	\$0	119377
R0194959	Residential	0156902101090	\$56,965	\$56,965	\$0	119377
R0194960	Residential	0156902101091	\$56,965	\$56,965	\$0	119377
R0194961	Residential	0156902101092	\$56,965	\$56,965	\$0	119377
R0194962	Residential	0156902101093	\$56,965	\$56,965	\$0	119377
R0194963	Residential	0156902101094	\$56,965	\$56,965	\$0	119377
R0194964	Residential	0156902101095	\$56,965	\$56,965	\$0	119377
R0194965	Residential	0156902101096	\$56,965	\$56,965	\$0	119377
R0194966	Residential	0156902101097	\$56,965	\$56,965	\$0	119377
R0194967	Residential	0156902101098	\$56,965	\$56,965	\$0	119377
R0194968	Residential	0156902101099	\$56,965	\$56,965	\$0	119377
R0194969	Residential	0156902101100	\$56,965	\$56,965	\$0	119377
R0194970	Residential	0156902101101	\$56,965	\$56,965	\$0	119377
R0194971	Residential	0156902101102	\$56,965	\$56,965	\$0	119377
R0194972	Residential	0156902101103	\$56,965	\$56,965	\$0	119377
R0194973	Residential	0156902101104	\$56,965	\$56,965	\$0	119377
R0194974	Residential	0156902101105	\$56,965	\$56,965	\$0	119377
R0194975	Residential	0156902101106	\$56,965	\$56,965	\$0	119377
R0194976	Residential	0156902101107	\$56,965	\$56,965	\$0	119377
R0194977	Residential	0156902101108	\$56,965	\$56,965	\$0	119377
R0194978	Residential	0156902101109	\$56,965	\$56,965	\$0	119377
R0194979	Residential	0156902101110	\$56,965	\$56,965	\$0	119377
R0194980	Residential	0156902101111	\$56,965	\$56,965	\$0	119377
R0194981	Residential	0156902101112	\$56,965	\$56,965	\$0	119377
R0194982	Residential	0156902101113	\$56,965	\$56,965	\$0	119377

**Adams County Board of Equalization Protest
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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0194983	Residential	0156902101114	\$56,965	\$56,965	\$0	119377
R0194984	Residential	0156902101115	\$56,965	\$56,965	\$0	119377
R0194985	Residential	0156902101116	\$56,965	\$56,965	\$0	119377
R0194986	Residential	0156902101117	\$56,965	\$56,965	\$0	119377
R0194987	Residential	0156902101118	\$56,965	\$56,965	\$0	119377
R0194988	Residential	0156902101119	\$56,965	\$56,965	\$0	119377
R0194989	Residential	0156902101120	\$56,965	\$56,965	\$0	119377
R0194992	Residential	0156902102021	\$56,965	\$56,965	\$0	119377
R0194993	Residential	0156902102022	\$75,953	\$75,953	\$0	119376
R0194994	Residential	0156902102023	\$75,953	\$75,953	\$0	119376
R0194995	Residential	0156902102024	\$75,953	\$75,953	\$0	119376
R0194996	Residential	0156902102025	\$75,953	\$75,953	\$0	119376
R0194997	Residential	0156902102026	\$75,953	\$75,953	\$0	119376
R0194998	Residential	0156902102027	\$75,953	\$75,953	\$0	119376
R0194999	Residential	0156902102028	\$75,953	\$75,953	\$0	119376
R0195000	Residential	0156902102029	\$75,953	\$75,953	\$0	119376
R0195001	Residential	0156902102030	\$75,953	\$75,953	\$0	119376
R0195002	Residential	0156902102031	\$75,953	\$75,953	\$0	119376
R0195003	Residential	0156902102032	\$75,953	\$75,953	\$0	119376
R0195004	Residential	0156902102033	\$75,953	\$75,953	\$0	119376
R0195005	Residential	0156902102034	\$75,953	\$75,953	\$0	119376
R0195006	Residential	0156902102035	\$75,953	\$75,953	\$0	119376
R0195007	Residential	0156902102036	\$56,965	\$56,965	\$0	119377
R0195008	Residential	0156902102037	\$56,965	\$56,965	\$0	119377
R0195009	Residential	0156902102038	\$56,965	\$56,965	\$0	119377
R0195010	Residential	0156902102039	\$56,965	\$56,965	\$0	119377
R0195011	Residential	0156902102040	\$56,965	\$56,965	\$0	119377
R0195012	Residential	0156902102041	\$56,965	\$56,965	\$0	119377
R0195013	Residential	0156902102042	\$56,965	\$56,965	\$0	119377
R0195014	Residential	0156902102043	\$56,965	\$56,965	\$0	119377
R0195015	Residential	0156902102044	\$56,965	\$56,965	\$0	119377
R0195016	Residential	0156902102045	\$56,965	\$56,965	\$0	119377
R0195017	Residential	0156902102046	\$56,965	\$56,965	\$0	119377
R0195018	Residential	0156902102047	\$56,965	\$56,965	\$0	119377
R0195019	Residential	0156902102048	\$56,965	\$56,965	\$0	119377
R0195067	Residential	0156902107030	\$75,953	\$75,953	\$0	119376
R0195068	Residential	0156902107031	\$75,953	\$75,953	\$0	119376
R0195069	Residential	0156902107032	\$75,953	\$75,953	\$0	119376
R0195070	Residential	0156902107033	\$75,953	\$75,953	\$0	119376
R0195071	Residential	0156902107034	\$75,953	\$75,953	\$0	119376

**Adams County Board of Equalization Protest
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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0195072	Residential	0156902107035	\$75,953	\$75,953	\$0	119376
R0195073	Residential	0156902107036	\$75,953	\$75,953	\$0	119376
R0195074	Residential	0156902107037	\$75,953	\$75,953	\$0	119376
R0195075	Residential	0156902107038	\$75,953	\$75,953	\$0	119376
R0195076	Residential	0156902107039	\$75,953	\$75,953	\$0	119376
R0195077	Residential	0156902107040	\$75,953	\$75,953	\$0	119376
R0195078	Residential	0156902107041	\$75,953	\$75,953	\$0	119376
R0195079	Residential	0156902107042	\$75,953	\$75,953	\$0	119376
R0195080	Residential	0156902107043	\$75,953	\$75,953	\$0	119376
R0195081	Residential	0156902107044	\$75,953	\$75,953	\$0	119376
R0195082	Residential	0156902107045	\$75,953	\$75,953	\$0	119376
R0195083	Residential	0156902107046	\$75,953	\$75,953	\$0	119376
R0195084	Residential	0156902107047	\$75,953	\$75,953	\$0	119376
R0195085	Residential	0156902107048	\$75,953	\$75,953	\$0	119376
R0195086	Residential	0156902107049	\$75,953	\$75,953	\$0	119376
R0195087	Residential	0156902107050	\$75,953	\$75,953	\$0	119376
R0195088	Residential	0156902107051	\$75,953	\$75,953	\$0	119376
R0195089	Residential	0156902107052	\$75,953	\$75,953	\$0	119376
R0195090	Residential	0156902107053	\$75,953	\$75,953	\$0	119376
R0195091	Residential	0156902107054	\$75,953	\$75,953	\$0	119376
R0195092	Residential	0156902107055	\$75,953	\$75,953	\$0	119376
R0195093	Residential	0156902107056	\$75,953	\$75,953	\$0	119376
R0195094	Residential	0156902107057	\$75,953	\$75,953	\$0	119376
R0195095	Residential	0156902107058	\$75,953	\$75,953	\$0	119376
R0195096	Residential	0156902107059	\$75,953	\$75,953	\$0	119376
R0195097	Residential	0156902107060	\$75,953	\$75,953	\$0	119376
R0195098	Residential	0156902107061	\$75,953	\$75,953	\$0	119376
R0195099	Residential	0156902107062	\$75,953	\$75,953	\$0	119376
R0195100	Residential	0156902107063	\$75,953	\$75,953	\$0	119376
R0195101	Residential	0156902107064	\$75,953	\$75,953	\$0	119376
R0195102	Residential	0156902107065	\$75,953	\$75,953	\$0	119376
R0195107	Residential	0156902108030	\$75,953	\$75,953	\$0	119376
R0195108	Residential	0156902108031	\$75,953	\$75,953	\$0	119376
R0195109	Residential	0156902108032	\$75,953	\$75,953	\$0	119376
R0195110	Residential	0156902108033	\$75,953	\$75,953	\$0	119376
R0195111	Residential	0156902108034	\$75,953	\$75,953	\$0	119376
R0195112	Residential	0156902108035	\$75,953	\$75,953	\$0	119376
R0195113	Residential	0156902108036	\$75,953	\$75,953	\$0	119376
R0195114	Residential	0156902108037	\$75,953	\$75,953	\$0	119376
R0195115	Residential	0156902108038	\$75,953	\$75,953	\$0	119376

**Adams County Board of Equalization Protest
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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0195116	Residential	0156902108039	\$75,953	\$75,953	\$0	119376
R0195117	Residential	0156902108040	\$75,953	\$75,953	\$0	119376
R0195118	Residential	0156902108041	\$75,953	\$75,953	\$0	119376
R0195119	Residential	0156902108042	\$75,953	\$75,953	\$0	119376
R0195120	Residential	0156902108043	\$75,953	\$75,953	\$0	119376
R0195129	Residential	0156902109073	\$56,965	\$56,965	\$0	119377
R0195130	Residential	0156902109074	\$56,965	\$56,965	\$0	119377
R0195131	Residential	0156902109075	\$56,965	\$56,965	\$0	119377
R0195132	Residential	0156902109076	\$56,965	\$56,965	\$0	119377
R0195133	Residential	0156902109077	\$75,953	\$75,953	\$0	119376
R0195134	Residential	0156902109078	\$75,953	\$75,953	\$0	119376
R0195135	Residential	0156902109079	\$75,953	\$75,953	\$0	119376
R0195136	Residential	0156902109080	\$75,953	\$75,953	\$0	119376
R0195139	Residential	0156902125001	\$75,953	\$75,953	\$0	119376
R0195140	Residential	0156902125002	\$75,953	\$75,953	\$0	119376
R0195141	Residential	0156902125003	\$75,953	\$75,953	\$0	119376
R0195142	Residential	0156902125004	\$75,953	\$75,953	\$0	119376
R0195143	Residential	0156902125005	\$75,953	\$75,953	\$0	119376
R0195144	Residential	0156902125006	\$75,953	\$75,953	\$0	119376
R0195145	Residential	0156902125007	\$75,953	\$75,953	\$0	119376
R0195146	Residential	0156902125008	\$75,953	\$75,953	\$0	119376
R0195147	Residential	0156902125009	\$75,953	\$75,953	\$0	119376
R0195148	Residential	0156902125010	\$75,953	\$75,953	\$0	119376
R0195149	Residential	0156902125011	\$75,953	\$75,953	\$0	119376
R0195150	Residential	0156902125012	\$75,953	\$75,953	\$0	119376
R0195151	Residential	0156902125013	\$75,953	\$75,953	\$0	119376
R0195152	Residential	0156902125014	\$75,953	\$75,953	\$0	119376
R0195153	Residential	0156902125015	\$75,953	\$75,953	\$0	119376
R0195160	Industrial	0182136402001	\$26,000,000	\$26,000,000	\$0	119261
R0195161	Residential	0157120203039	\$63,180	\$63,180	\$0	119375
R0195162	Residential	0157120203040	\$63,180	\$63,180	\$0	119375
R0195163	Residential	0157120203041	\$63,180	\$63,180	\$0	119375
R0195164	Residential	0157120207020	\$63,180	\$63,180	\$0	119375
R0195165	Residential	0157120207021	\$63,180	\$63,180	\$0	119375
R0195166	Residential	0157120207022	\$63,180	\$63,180	\$0	119375
R0195167	Residential	0157120207023	\$63,180	\$63,180	\$0	119375
R0195168	Residential	0157120207024	\$63,180	\$63,180	\$0	119375
R0195169	Residential	0157120207025	\$63,180	\$63,180	\$0	119375
R0195170	Residential	0157120207026	\$63,180	\$63,180	\$0	119375
R0195171	Residential	0157120207027	\$63,180	\$63,180	\$0	119375

**Adams County Board of Equalization Protest
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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0195172	Residential	0157120207028	\$63,180	\$63,180	\$0	119375
R0195173	Residential	0157120207029	\$63,180	\$63,180	\$0	119375
R0195348	Industrial	0182136401004	\$44,186,100	\$44,186,100	\$0	119460
R0195602	Residential	0157116264023	\$565,075	\$565,075	\$0	119363
R0195687	Commercial	0172121403001	\$7,813,027	\$7,813,027	\$0	119801
R0197770	Residential	0156902407029	\$75,953	\$75,953	\$0	119368
R0197780	Residential	0156902408026	\$75,953	\$75,953	\$0	119368
R0197781	Residential	0156902408027	\$75,953	\$75,953	\$0	119368
R0197782	Residential	0156902408028	\$75,953	\$75,953	\$0	119368
R0197789	Residential	0156902409026	\$75,953	\$75,953	\$0	119368
R0197790	Residential	0156902409027	\$75,953	\$75,953	\$0	119368
R0197791	Residential	0156902409028	\$75,953	\$75,953	\$0	119368
R0197792	Residential	0156902409029	\$75,953	\$75,953	\$0	119368
R0197793	Residential	0156902409030	\$75,953	\$75,953	\$0	119368
R0197794	Residential	0156902409031	\$75,953	\$75,953	\$0	119368
R0197795	Residential	0156902409032	\$75,953	\$75,953	\$0	119368
R0197796	Residential	0156902409033	\$75,953	\$75,953	\$0	119368
R0197797	Residential	0156902409034	\$75,953	\$75,953	\$0	119368
R0197799	Residential	0156902410026	\$75,953	\$75,953	\$0	119368
R0197800	Residential	0156902410027	\$75,953	\$75,953	\$0	119368
R0197801	Residential	0156902410028	\$75,953	\$75,953	\$0	119368
R0197802	Residential	0156902410029	\$75,953	\$75,953	\$0	119368
R0197803	Residential	0156902410030	\$75,953	\$75,953	\$0	119368
R0197804	Residential	0156902410031	\$75,953	\$75,953	\$0	119368
R0197805	Residential	0156902410032	\$91,641	\$91,641	\$0	119369
R0197810	Residential	0156902414054	\$69,908	\$69,908	\$0	119370
R0197813	Residential	0156902424001	\$75,953	\$75,953	\$0	119368
R0197815	Residential	0156902424003	\$75,953	\$75,953	\$0	119368
R0197816	Residential	0156902424004	\$75,953	\$75,953	\$0	119368
R0197817	Residential	0156902424005	\$75,953	\$75,953	\$0	119368
R0197818	Residential	0156902424006	\$75,953	\$75,953	\$0	119368
R0197819	Residential	0156902424007	\$75,953	\$75,953	\$0	119368
R0197820	Residential	0156902424008	\$75,953	\$75,953	\$0	119368
R0197821	Residential	0156902424009	\$75,953	\$75,953	\$0	119368
R0197822	Residential	0156902424010	\$75,953	\$75,953	\$0	119368
R0197823	Residential	0156902424011	\$75,953	\$75,953	\$0	119368
R0197824	Residential	0156902424012	\$75,953	\$75,953	\$0	119368
R0197825	Residential	0156902424013	\$75,953	\$75,953	\$0	119368
R0197826	Residential	0156902424014	\$75,953	\$75,953	\$0	119368
R0197827	Residential	0156902424015	\$75,953	\$75,953	\$0	119368

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0197828	Residential	0156902424016	\$75,953	\$75,953	\$0	119368
R0197829	Residential	0156902424017	\$75,953	\$75,953	\$0	119368
R0197830	Residential	0156902424018	\$75,953	\$75,953	\$0	119368
R0197831	Residential	0156902424019	\$75,953	\$75,953	\$0	119368
R0197832	Residential	0156902424020	\$75,953	\$75,953	\$0	119368
R0197833	Residential	0156902424021	\$75,953	\$75,953	\$0	119368
R0197834	Residential	0156902424022	\$75,953	\$75,953	\$0	119368
R0197838	Residential	0156902424026	\$75,953	\$75,953	\$0	119368
R0197962	Exempt	0157314301010	\$277,124	\$277,124	\$0	119198
R0197965	Commercial	0182128102022	\$6,100,000	\$6,100,000	\$0	119255
R0198182	Industrial	0182325213004	\$3,397,443	\$3,397,443	\$0	119484
R0198188	Commercial	0182129402007	\$873,766	\$873,766	\$0	119500
R0198189	Commercial	0182129402008	\$469,977	\$469,977	\$0	119501
R0198190	Commercial	0182129403003	\$397,472	\$397,472	\$0	119502
R0198193	Commercial	0182132316017	\$156,078	\$156,078	\$0	119485
R0198194	Commercial	0182132316018	\$158,945	\$158,945	\$0	119486
R0198195	Commercial	0182132316019	\$181,621	\$181,621	\$0	119487
R0199897	Residential	0182504412001	\$77,379	\$77,379	\$0	119371
R0199898	Residential	0182504412002	\$77,379	\$77,379	\$0	119371
R0199899	Residential	0182504412003	\$77,379	\$77,379	\$0	119371
R0199900	Residential	0182504412004	\$77,379	\$77,379	\$0	119371
R0199901	Residential	0182504412005	\$77,379	\$77,379	\$0	119371
R0199902	Residential	0182504412006	\$77,379	\$77,379	\$0	119371
R0199903	Residential	0182504412007	\$77,379	\$77,379	\$0	119371
R0199904	Residential	0182504412008	\$77,379	\$77,379	\$0	119371
R0199905	Residential	0182504412009	\$77,379	\$77,379	\$0	119371
R0199906	Residential	0182504412010	\$77,379	\$77,379	\$0	119371
R0199907	Residential	0182504412011	\$77,379	\$77,379	\$0	119371
R0199908	Residential	0182504412012	\$77,379	\$77,379	\$0	119371
R0199909	Residential	0182504412013	\$77,379	\$77,379	\$0	119371
R0199910	Residential	0182504412014	\$77,379	\$77,379	\$0	119371
R0199911	Residential	0182504412015	\$77,379	\$77,379	\$0	119371
R0199912	Residential	0182504412016	\$77,379	\$77,379	\$0	119371
R0199913	Residential	0182504412017	\$77,379	\$77,379	\$0	119371
R0199914	Residential	0182504412018	\$77,379	\$77,379	\$0	119371
R0199915	Residential	0182504412019	\$77,379	\$77,379	\$0	119371
R0199916	Residential	0182504412020	\$77,379	\$77,379	\$0	119371
R0199917	Residential	0182504412021	\$77,379	\$77,379	\$0	119371
R0199918	Residential	0182504412022	\$77,379	\$77,379	\$0	119371
R0199919	Residential	0182504412023	\$77,379	\$77,379	\$0	119371

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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0199920	Residential	0182504412024	\$77,379	\$77,379	\$0	119371
R0199921	Residential	0182504412025	\$77,379	\$77,379	\$0	119371
R0199922	Residential	0182504412026	\$77,379	\$77,379	\$0	119371
R0199923	Residential	0182504412027	\$77,379	\$77,379	\$0	119371
R0199924	Residential	0182504412028	\$77,379	\$77,379	\$0	119371
R0199925	Residential	0182504412029	\$77,379	\$77,379	\$0	119371
R0199926	Residential	0182504412030	\$77,379	\$77,379	\$0	119371
R0199927	Residential	0182504412031	\$77,379	\$77,379	\$0	119371
R0199928	Residential	0182504412032	\$77,379	\$77,379	\$0	119371
R0199929	Residential	0182504412033	\$77,379	\$77,379	\$0	119371
R0199930	Residential	0182504412034	\$77,379	\$77,379	\$0	119371
R0199931	Residential	0182504412035	\$77,379	\$77,379	\$0	119371
R0199932	Residential	0182504412036	\$77,379	\$77,379	\$0	119371
R0199933	Residential	0182504412037	\$77,379	\$77,379	\$0	119371
R0199934	Residential	0182504412038	\$77,379	\$77,379	\$0	119371
R0199935	Residential	0182504412039	\$77,379	\$77,379	\$0	119371
R0199936	Residential	0182504412040	\$77,379	\$77,379	\$0	119371
R0199937	Residential	0182504412041	\$77,379	\$77,379	\$0	119371
R0199938	Residential	0182504412042	\$77,379	\$77,379	\$0	119371
R0199939	Residential	0182504412043	\$77,379	\$77,379	\$0	119371
R0199940	Residential	0182504412044	\$77,379	\$77,379	\$0	119371
R0199941	Residential	0182504412045	\$77,379	\$77,379	\$0	119371
R0199942	Residential	0182504412046	\$77,379	\$77,379	\$0	119371
R0199943	Residential	0182504412047	\$77,379	\$77,379	\$0	119371
R0199944	Residential	0182504412048	\$77,379	\$77,379	\$0	119371
R0199945	Residential	0182504412049	\$77,379	\$77,379	\$0	119371
R0199946	Residential	0182504412050	\$77,379	\$77,379	\$0	119371
R0199947	Residential	0182504412051	\$77,379	\$77,379	\$0	119371
R0199948	Residential	0182504412052	\$77,379	\$77,379	\$0	119371
R0199949	Residential	0182504412053	\$77,379	\$77,379	\$0	119371
R0199950	Residential	0182504412054	\$77,379	\$77,379	\$0	119371
R0199951	Residential	0182504412055	\$77,379	\$77,379	\$0	119371
R0199952	Residential	0182504412056	\$77,379	\$77,379	\$0	119371
R0199953	Residential	0182504412057	\$77,379	\$77,379	\$0	119371
R0199954	Residential	0182504412058	\$77,379	\$77,379	\$0	119371
R0199955	Residential	0182504412059	\$77,379	\$77,379	\$0	119371
R0199956	Residential	0182504412060	\$77,379	\$77,379	\$0	119371
R0199957	Residential	0182504412061	\$77,379	\$77,379	\$0	119371
R0199958	Residential	0182504412062	\$77,379	\$77,379	\$0	119371
R0199959	Residential	0182504412063	\$77,379	\$77,379	\$0	119371

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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0199960	Residential	0182504412064	\$77,379	\$77,379	\$0	119371
R0199961	Residential	0182504412065	\$77,379	\$77,379	\$0	119371
R0199962	Residential	0182504412066	\$77,379	\$77,379	\$0	119371
R0199963	Residential	0182504412067	\$77,379	\$77,379	\$0	119371
R0199964	Residential	0182504412068	\$77,379	\$77,379	\$0	119371
R0199965	Residential	0182504412069	\$77,379	\$77,379	\$0	119371
R0199966	Residential	0182504412070	\$77,379	\$77,379	\$0	119371
R0199967	Residential	0182504412071	\$77,379	\$77,379	\$0	119371
R0199968	Residential	0182504412072	\$77,379	\$77,379	\$0	119371
R0200276	Residential	0157109418121	\$73,990	\$73,990	\$0	119364
R0200277	Residential	0157109418122	\$73,990	\$73,990	\$0	119364
R0200278	Residential	0157109418123	\$73,990	\$73,990	\$0	119364
R0200279	Residential	0157109418124	\$73,990	\$73,990	\$0	119364
R0200280	Residential	0157109418125	\$73,990	\$73,990	\$0	119364
R0200281	Residential	0157109418126	\$73,990	\$73,990	\$0	119364
R0200282	Residential	0157109418127	\$73,990	\$73,990	\$0	119364
R0200283	Residential	0157109418128	\$73,990	\$73,990	\$0	119364
R0200284	Residential	0157109419053	\$73,990	\$73,990	\$0	119364
R0200285	Residential	0157109419054	\$73,990	\$73,990	\$0	119364
R0200286	Residential	0157109419055	\$73,990	\$73,990	\$0	119364
R0200291	Residential	0157109419060	\$73,990	\$73,990	\$0	119364
R0200292	Residential	0157109419061	\$73,990	\$73,990	\$0	119364
R0200773	Residential	0157109119096	\$49,980	\$49,980	\$0	119365
R0200774	Residential	0157109119097	\$49,980	\$49,980	\$0	119365
R0200775	Residential	0157109119098	\$49,980	\$49,980	\$0	119365
R0200776	Residential	0157109119099	\$49,980	\$49,980	\$0	119365
R0200777	Residential	0157109119100	\$49,980	\$49,980	\$0	119365
R0200778	Residential	0157109119101	\$49,980	\$49,980	\$0	119365
R0200779	Residential	0157109122016	\$49,980	\$49,980	\$0	119365
R0200780	Residential	0157109122017	\$49,980	\$49,980	\$0	119365
R0200781	Residential	0157109122018	\$49,980	\$49,980	\$0	119365
R0200782	Residential	0157109122019	\$49,980	\$49,980	\$0	119365
R0200783	Residential	0157109122020	\$49,980	\$49,980	\$0	119365
R0200784	Residential	0157109122021	\$49,980	\$49,980	\$0	119365
R0200785	Residential	0157109122022	\$49,980	\$49,980	\$0	119365
R0200786	Residential	0157109122023	\$49,980	\$49,980	\$0	119365
R0200787	Residential	0157109417021	\$49,980	\$49,980	\$0	119365
R0200788	Residential	0157109417022	\$49,980	\$49,980	\$0	119365
R0200789	Residential	0157109417023	\$49,980	\$49,980	\$0	119365
R0200790	Residential	0157109417024	\$49,980	\$49,980	\$0	119365

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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0200791	Residential	0157109417025	\$49,980	\$49,980	\$0	119365
R0200792	Residential	0157109417026	\$49,980	\$49,980	\$0	119365
R0200793	Residential	0157109418129	\$49,980	\$49,980	\$0	119365
R0200794	Residential	0157109418130	\$49,980	\$49,980	\$0	119365
R0200795	Residential	0157109418131	\$49,980	\$49,980	\$0	119365
R0200796	Residential	0157109418132	\$49,980	\$49,980	\$0	119365
R0200797	Residential	0157109418133	\$49,980	\$49,980	\$0	119365
R0200798	Residential	0157109418134	\$49,980	\$49,980	\$0	119365
R0200799	Residential	0157109418135	\$49,980	\$49,980	\$0	119365
R0200800	Residential	0157109418136	\$49,980	\$49,980	\$0	119365
R0200801	Residential	0157109418137	\$49,980	\$49,980	\$0	119365
R0200802	Residential	0157109418138	\$49,980	\$49,980	\$0	119365
R0200803	Residential	0157109418139	\$49,980	\$49,980	\$0	119365
R0200804	Residential	0157109418140	\$49,980	\$49,980	\$0	119365
R0200805	Residential	0157109418141	\$49,980	\$49,980	\$0	119365
R0200806	Residential	0157109418142	\$49,980	\$49,980	\$0	119365
R0200807	Residential	0157109418143	\$49,980	\$49,980	\$0	119365
R0200808	Residential	0157109418144	\$49,980	\$49,980	\$0	119365
R0200809	Residential	0157109418145	\$49,980	\$49,980	\$0	119365
R0200810	Residential	0157109418146	\$49,980	\$49,980	\$0	119365
R0200811	Residential	0157109418147	\$49,980	\$49,980	\$0	119365
R0200812	Residential	0157109418148	\$49,980	\$49,980	\$0	119365
R0200813	Residential	0157109418149	\$35,700	\$35,700	\$0	119374
R0200814	Residential	0157109418150	\$35,700	\$35,700	\$0	119374
R0200815	Residential	0157109418151	\$35,700	\$35,700	\$0	119374
R0200816	Residential	0157109418152	\$35,700	\$35,700	\$0	119374
R0200817	Residential	0157109418153	\$35,700	\$35,700	\$0	119374
R0200818	Residential	0157109418154	\$35,700	\$35,700	\$0	119374
R0200819	Residential	0157109418155	\$35,700	\$35,700	\$0	119374
R0200820	Residential	0157109418156	\$35,700	\$35,700	\$0	119374
R0200821	Residential	0157109418157	\$35,700	\$35,700	\$0	119374
R0200822	Residential	0157109418158	\$35,700	\$35,700	\$0	119374
R0200823	Residential	0157109418159	\$35,700	\$35,700	\$0	119374
R0200824	Residential	0157109418160	\$35,700	\$35,700	\$0	119374
R0200825	Residential	0157109418161	\$35,700	\$35,700	\$0	119374
R0200826	Residential	0157109418162	\$35,700	\$35,700	\$0	119374
R0200827	Residential	0157109418163	\$35,700	\$35,700	\$0	119374
R0200828	Residential	0157109418164	\$35,700	\$35,700	\$0	119374
R0200829	Residential	0157109418165	\$35,700	\$35,700	\$0	119374
R0201354	Commercial	0182102301002	\$166,816	\$166,816	\$0	119346

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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Deny						
R0201355	Commercial	0182102301002	\$677,924,382	\$677,924,382	\$0	119349
R0201356	Commercial	0182102301002	\$1,837,684	\$1,837,684	\$0	119348
R0201447	Commercial	0172131313006	\$4,100,000	\$4,100,000	\$0	119705
Number of Accounts: 1443			\$3,476,226,134	\$3,476,226,134	\$0	

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Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Stipulated						
P0035144	Leasing		\$194,159	\$180,568	(\$13,591)	119284
R0002569	Industrial	0156906112003	\$1,014,000	\$837,423	(\$176,577)	119289
R0002570	Commercial	0156906112004	\$1,014,000	\$837,423	(\$176,577)	119289
R0013668	Commercial	0157134000059	\$232,221	\$113,678	(\$118,543)	119214
R0014130	Residential	0157309004010	\$169,000	\$169,000	\$0	119282
R0031057	Residential	0171903409015	\$6,411,600	\$6,143,077	(\$268,523)	119225
R0037107	Commercial	0171910217007	\$270,725	\$163,500	(\$107,225)	119204
R0069036	Commercial	0171933413017	\$7,970,387	\$6,376,300	(\$1,594,087)	119280
R0070622	Commercial	0171934402015	\$7,514,000	\$7,100,000	(\$414,000)	119465
R0071007	Commercial	0171935302010	\$7,939,476	\$4,700,000	(\$3,239,476)	119338
R0081717	Commercial	0181300008008	\$972,253	\$725,000	(\$247,253)	119208
R0083907	Commercial	0182100007002	\$8,204,000	\$6,825,000	(\$1,379,000)	119469
R0083908	Commercial	0182100007003	\$8,204,000	\$6,825,000	(\$1,379,000)	119425
R0084041	Industrial	0182127006006	\$11,965,012	\$11,500,000	(\$465,012)	119246
R0084237	Commercial	0182130002005	\$8,200,000	\$7,057,710	(\$1,142,290)	119321
R0084250	Commercial	0182130004011	\$8,955,000	\$8,668,480	(\$286,520)	119464
R0086214	Commercial	0182133011008	\$47,334,759	\$35,000,000	(\$12,334,759)	119216
R0093106	Commercial	0182325211003	\$12,580,606	\$12,000,000	(\$580,606)	119797
R0093111	Commercial	0182325213002	\$4,646,844	\$3,500,000	(\$1,146,844)	119796
R0104125	Commercial	0182515202005	\$1,856,000	\$1,800,000	(\$56,000)	119427
R0109963	Commercial	0182100011005	\$13,815,000	\$13,250,000	(\$565,000)	119256
R0111560	Industrial	0182126011012	\$11,940,589	\$11,442,500	(\$498,089)	119243
R0115909	Commercial	0171932317005	\$2,300,000	\$1,071,611	(\$1,228,389)	119432
R0116147	Commercial	0171906202006	\$4,065,000	\$3,500,000	(\$565,000)	119215
R0116157	Residential	0171903417025	\$1,169,640	\$866,400	(\$303,240)	119353
R0116158	Residential	0171903417026	\$1,169,640	\$866,400	(\$303,240)	119352
R0118939	Commercial	0171915109001	\$712,400	\$675,000	(\$37,400)	119387
R0121157	Industrial	0156906112008	\$2,210,000	\$1,825,153	(\$384,847)	119289
R0121188	Commercial	0157334401004	\$1,875,000	\$1,800,000	(\$75,000)	119249
R0123248	Commercial	0182127301003	\$21,353,470	\$16,065,000	(\$5,288,470)	119239
R0126235	Commercial	0171911405017	\$7,278,000	\$5,110,000	(\$2,168,000)	119290
R0132030	Commercial	0182127102002	\$11,948,470	\$11,500,000	(\$448,470)	119244
R0137597	Commercial	0182510302018	\$5,941,956	\$5,800,000	(\$141,956)	119436
R0159218	Commercial	0156910122006	\$2,605,301	\$2,270,000	(\$335,301)	119340
R0164715	Commercial	0156903322016	\$1,842,776	\$1,596,000	(\$246,776)	119232
R0172867	Commercial	0182127103002	\$12,872,011	\$12,394,700	(\$477,311)	119241
R0172868	Commercial	0182127103003	\$12,067,720	\$11,500,000	(\$567,720)	119242
R0174237	Commercial	0172114104003	\$414,202	\$220,581	(\$193,621)	119218
R0174238	Commercial	0172114104004	\$163,795	\$87,228	(\$76,567)	119218
R0174239	Commercial	0172114104001	\$216,375	\$115,229	(\$101,146)	119218

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Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Stipulated						
R0174240	Commercial	0172114102005	\$275,652	\$146,797	(\$128,855)	119218
R0174241	Commercial	0172114102006	\$224,816	\$119,725	(\$105,091)	119218
R0174242	Commercial	0172114102007	\$276,560	\$147,281	(\$129,279)	119218
R0174243	Commercial	0172114102002	\$228,391	\$121,628	(\$106,763)	119218
R0174253	Commercial	0172114102004	\$610,889	\$325,325	(\$285,564)	119218
R0174254	Commercial	0172114104002	\$584,241	\$311,135	(\$273,106)	119218
R0174913	Commercial	0182512101082	\$4,700,000	\$4,185,248	(\$514,752)	119233
R0177640	Commercial	0172308306065	\$2,739,521	\$2,270,000	(\$469,521)	119203
R0178624	Commercial	0182336105018	\$23,500,000	\$23,500,000	\$0	119312
R0180593	Commercial	0171927306017	\$5,917,200	\$5,731,991	(\$185,209)	119470
R0181787	Commercial	0182127104001	\$29,878,521	\$28,770,585	(\$1,107,936)	119250
R0189802	Industrial	0182507401019	\$7,433,500	\$5,963,122	(\$1,470,378)	119251
R0191101	Commercial	0182127402001	\$33,800,000	\$28,455,540	(\$5,344,460)	119253
R0191292	Industrial	0182136302001	\$56,631,532	\$55,000,000	(\$1,631,532)	119499
R0191644	Commercial	0181734100001	\$1,866,265	\$1,369,935	(\$496,330)	119355
R0194590	Residential	0171919204015	\$46,846,810	\$37,983,900	(\$8,862,910)	119195
R0194594	Commercial	0182121403001	\$18,224,300	\$12,789,000	(\$5,435,300)	119428
R0194595	Commercial	0182121403002	\$38,815,300	\$29,374,100	(\$9,441,200)	119429
Number of Accounts: 58			\$534,162,885	\$459,043,273	(\$75,119,612)	

**Adams County Board of Equalization Protest
2020**

Value Detail

Account #	Account Type	Parcel #	Current Total Value	BOE Total Value	Difference	Review #
Withdrawn						
R0025838	Commercial	0157336309056	\$1,069,785	\$1,069,785	\$0	119467
R0056228	Residential	0171926205024	\$3,686,403	\$3,686,403	\$0	119226
R0063279	Residential	0171930317001	\$67,275,000	\$67,275,000	\$0	119426
R0071005	Commercial	0171935302004	\$3,726,979	\$3,726,979	\$0	119477
R0085052	Residential	0182131121009	\$260,000	\$260,000	\$0	119310
R0085415	Residential	0182131221006	\$6,650,000	\$6,650,000	\$0	119224
R0090173	Commercial	0182306300044	\$2,042,070	\$2,042,070	\$0	119322
R0090850	Commercial	0182307107011	\$906,046	\$906,046	\$0	119489
R0092694	Commercial	0182317304048	\$1,941,310	\$1,941,310	\$0	119479
R0092711	Commercial	0182317400012	\$4,239,175	\$4,239,175	\$0	119472
R0103796	Commercial	0182511408001	\$2,420,000	\$2,420,000	\$0	119212
R0113792	Commercial	0182504108024	\$810,316	\$810,316	\$0	119490
R0115915	Commercial	0171932317010	\$990,616	\$990,616	\$0	119433
R0115916	Commercial	0171932317011	\$4,058,109	\$4,058,109	\$0	119434
R0132031	Commercial	0182127102001	\$15,334,000	\$15,334,000	\$0	119245
R0137130	Residential	0156915201002	\$18,306,769	\$18,306,769	\$0	119430
R0150372	Commercial	0182121401001	\$4,506,578	\$4,506,578	\$0	119217
R0151466	Commercial	0157113102004	\$3,437,286	\$3,437,286	\$0	119219
R0178260	Commercial	0156915101027	\$1,199,036	\$1,199,036	\$0	119494
R0181935	Commercial	0182317400012	\$57,132	\$57,132	\$0	119472
R0186842	Commercial	0171906226002	\$4,641,400	\$4,641,400	\$0	119213
R0187293	Industrial	0182325103011	\$18,237,811	\$18,237,811	\$0	119471
R0188682	Residential	0171913101371	\$40,754,409	\$40,754,409	\$0	119439
R0193009	Commercial	0156911213026	\$6,411,834	\$6,411,834	\$0	119194
Number of Accounts: 24			\$212,962,064	\$212,962,064	\$0	

Grand Totals Adjusted / Stipulated Decisions: \$547,990,088 \$471,908,203 (\$76,081,885)

Grand Totals All Decisions: \$4,237,178,286 \$4,161,096,401 (\$76,081,885)

Total Number of Accounts Overall: 1530



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10 th , 2020
SUBJECT: Final Acceptance of the Public Improvements constructed at the Sherrelwood Village Subdivision, 7840 Pecos St.,
FROM: Kristin Sullivan, AICP, Director of Public Works Brian Staley, PE, PTOE, Deputy Director of Public Works
AGENCY/DEPARTMENT: Public Works
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approve a resolution granting Final Acceptance of the public improvements constructed at the Sherrelwood Village Subdivision, 7840 Pecos St., (Case No's. PRC2016-00008, PLT2016-00022, PUD2016-00014, EGR2016-00025, SIA2018-00011, SUB2018-00010).

BACKGROUND:

The Sherrelwood Village Subdivision is generally located at 7840 Pecos Street in unincorporated Adams County as indicated by the attached map (Exhibit A). The public improvements for the Sherrelwood Village Subdivision, were granted Preliminary Acceptance on September 10, 2019. As outlined in the Subdivision Improvements Agreement attached to resolution number 2018-534, all improvements have satisfactorily completed the guarantee period. The Irrevocable Letter of Credit, issued by the Midfirst Bank, Commercial Lending, 11001 No. Rockwell, Oklahoma City, Oklahoma that has been placed as collateral, will need to be released as part of this Final Acceptance.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Adams County Public Works Department
Adams County Community and Economic Development Department
Adams County Attorney's Office

ATTACHED DOCUMENTS:

Resolution

Exhibit A

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<hr/>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<hr/>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION FOR FINAL ACCEPTANCE OF THE PUBLIC IMPROVEMENTS CONSTRUCTED AT
THE SHERRELWOOD VILLAGE SUBDIVISION, (CASE NOS. PRC2016-00008, PLT2016-00022,
PUD2016-00014, EGR2016-00025, SIA2018-00011, SUB2018-00010)

WHEREAS, the required public street improvements have been constructed at the SHERRELWOOD VILLAGE SUBDIVISION, (Case Nos. PRC2016-00008, PLT2016-00022, PUD2016-00014, EGR2016-00025, SIA2018-00011, SUB2018-00010), in accordance with the approved construction drawings; and,

WHEREAS, in accordance with the provisions of the Adams County Development Standards and Regulations, the public improvements have satisfactorily completed the guaranty period; and,

WHEREAS, in accordance with the Adams County Development Standards and Regulations, the Adams County Public Works Department has inspected the public improvements for Final Acceptance; and,

WHEREAS, the Adams County Public Works Department recommends Final Acceptance of the public improvements constructed at the SHERRELWOOD VILLAGE SUBDIVISION; and,

WHEREAS, in accordance with the Adams County Development Standards and Regulations, and the Subdivision Improvements Agreement as approved by resolution number 2018-534, the Irrevocable Letter of Credit, issued by the Midfirst Bank, Commercial Lending, 11001 No. Rockwell, Oklahoma City, Oklahoma that has been placed as collateral, will need to be released as part of this Final Acceptance.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, County of Adams, State of Colorado, that the public improvements constructed at the SHERRELWOOD VILLAGE SUBDIVISION, be and hereby are accepted and approved in accordance with the provisions of the Adams County Development Standards and Regulations.


















BE IT FURTHER RESOLVED, that the Board of County Commissioners hereby authorizes the release of the posted collateral, as noted in the Irrevocable Letter of Credit, issued by the Midfirst Bank, Commercial Lending, 11001 No. Rockwell, Oklahoma City, Oklahoma that has been placed as collateral, will need to be released as part of this Final Acceptance.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is hereby authorized to execute said final acceptance and any attending documents on behalf of Adams County.

Sherrelwood Village Subdivision, Exhibit A



Legend

- Address
- Highways
 -  Interstate
 -  Highway
 -  Tollway
- Streets
 -  Streets
 -  Ramp
- Building
 - 
- County Parks and Open Space
 - 
- Small Lakes
 - 
- Major Lakes
 - 
- Rivers
 -  Canal
 -  Ditch
 -  Primary Creek
 -  River
 -  Secondary Creek
 -  Stream
- Parcels
 - 
- County Boundary
 - 

1: 3,609



0.1 0 0.06 0.1 Miles

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION

Notes

PRC2016-00008, PLT2016-00022, PUD2016-00014, EGR2016-00025, SUB2018-00010, UTL2019-00450, SIA2018-00011, CSI2018-00024



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10 2020
SUBJECT: Hazard Mitigation Plan
FROM: Ron Sigman, County Emergency Manager
AGENCY/DEPARTMENT: CSWB/Emergency Management
HEARD AT STUDY SESSION ON October 6, 2020
AUTHORIZATION TO MOVE FORWARD: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners Adopt the updated Hazard Mitigation Plan.

BACKGROUND:

The County Hazard Mitigation Plan (HMP) is a required document that allows Adams County to become eligible for future federal mitigation grant funding. This 2020 update to the HMP meets the federal requirement that the Plan is updated every five (5) years. The primary purpose of the HMP is to reduce or eliminate long-term risk to people and property from natural, technological, and human-caused hazards and to mitigate their impacts on the County.

A contract in the amount of \$79,500 was awarded to Wood Environment & Infrastructure Solutions, Inc. to assist with the development of the 2020 update to the HMP. The final draft of the 2020 update has been reviewed by the Colorado Department of Emergency Management/Homeland Security and FEMA Region VIII and designated "Approved Pending Adoption".

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Adams County Office of Emergency Management
Adams County Community & Economic Development
Town of Bennett
City of Commerce City
City of Brighton
Denver Water

ATTACHED DOCUMENTS:

Resolution
2020 Hazard Mitigation Plan

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<hr/>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<hr/>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

*Update to Plan is required every 5 years.

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING THE ADAMS COUNTY HAZARD MITIGATION PLAN

WHEREAS, each year in the United States, natural disasters take the lives of hundreds of people and cause substantial damage to property and the environment; and,

WHEREAS, each dollar spent on mitigation saves society an average of \$6 in avoided future losses in addition to saving lives and preventing injuries; and,

WHEREAS, the Robert T. Stafford Disaster Relief and Emergency Assistance Act (“Stafford Act”) legally requires state, local, tribal, and territorial governments to develop and adopt FEMA-approved hazard mitigation plans as a condition for receiving certain types of non-emergency disaster assistance; and,

WHEREAS, the regulations under Title 44, Chapter 1, Part 201 of the Code of Federal Regulations (44CFR Part 201) contain requirements and procedures to implement the hazard mitigation planning provisions of the Stafford Act; and,

WHEREAS, the Adams County Hazard Mitigation Plan has been reviewed by the Colorado Division of Homeland Security & Emergency Management and FEMA Region VIII and designated the Adams County Hazard Mitigation Plan as “Approved Pending Adoption”;

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the Adams County Hazard Mitigation Plan is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is hereby authorized to sign the Adams County Hazard Mitigation Plan on behalf of Adams County.



Adams County Hazard Mitigation Plan

August 2020



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Annex B	City of Brighton
Annex C	City of Commerce City
Annex D	Denver Water

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1 Introduction

1.1 Executive Summary

The purpose of hazard mitigation is to reduce or eliminate long-term risk to people and property from disasters or hazard events. Studies have found that hazard mitigation is extremely cost-effective, with every dollar spent on mitigation saving an average of \$6 in avoided future losses. Adams County and its participating jurisdictions developed this hazard mitigation plan to reduce future losses to the County and its communities from natural and human-caused hazards.

This plan builds on the 2004 and 2011 Denver Regional Natural Hazard Mitigation Plans developed by the Denver Regional Council of Governments (DRCOG), as well as the 2014 Imagine Adams County Comprehensive Plan. This updated Plan will be integrated into the next update of the County's Comprehensive Plan.

The 2020 Adams County Hazard Mitigation Plan is a multi-jurisdictional plan that includes the following communities and special districts:

- Adams County
- Town of Bennett
- City of Brighton
- City of Commerce City
- Denver Water

Details of how the risk and vulnerability varies for these jurisdictions, along with their proposed mitigation actions, are included in jurisdictional **Annexes**. Information on other Adams County communities has been included in the plan where feasible.

The County's planning process followed a methodology prescribed by FEMA, which began with the reconvening of the Hazard Mitigation Planning Committee (HMPC) comprised of key participants from Adams County agencies, participating jurisdictions, neighboring counties and stakeholders, and state and federal agencies. The planning process is described in detail in **Section 3**.

The risk and vulnerability assessment associated with these hazards is captured in **Section 4**. The previous mitigation plans mentioned above identified and profiled several natural hazards that have the potential to impact the County, and these were updated. For the 2020 update, the HMPC elected to include a number of human-caused hazards of concern to the County. While climate change was not profiled as a separate hazard, the potential impacts of climate change on each of the above hazards is addressed in each hazard profile. All these hazards were analyzed based on their geographic location, probability of future occurrence, and magnitude or severity, and then ranked based on the overall significance they pose to Adams County.

The following hazards were ranked as high significance:

- Thunderstorms
- Tornado/Damaging Wind
- Winter Weather

The following hazards were ranked as medium significance:

- Flood
- Dam Failure/Incident
- Drought
- Hazardous Materials Incident



The following hazards were ranked as low significance:

- Cyber Incident
- Earthquake
- Subsidence
- Terrorism/Active Shooter
- Wildfire

An assessment of the County's mitigation capabilities was conducted to evaluate programs and policies currently in use to reduce hazard impacts or that could be used to implement hazard mitigation activities, as well as to identify opportunities for enhancement. This capability assessment is detailed in **Section 5**.

Section 6 describes the mitigation strategy the HMPC developed to address vulnerabilities identified in the risk assessment. The HMPC developed the following goals for reducing risk from hazards:

Goal 1: Increase community awareness of Adams County's vulnerability to natural and human-caused hazards

Goal 2: Reduce vulnerability to, and protect people, property, and the environment from natural and human-caused hazards

Goal 3: Increase internal capabilities and coordination to reduce the impacts to natural and human-caused hazards

Goal 4: Strengthen communication and coordination among public agencies, NGO's, businesses, and residents

Objectives for implementing these goals were also developed, along with a broad range of targeted mitigation actions.

This Plan is meant to be a living document that guides and integrates mitigation activities throughout the County. **Section 7** provides an overview of the strategy for plan implementation and maintenance, and outlines the method and schedule for monitoring, evaluating, and updating the Plan. This plan will be revised and updated every five years in accordance with FEMA guidelines.

The 2020 Adams County Hazard Mitigation Plan had been formally adopted by the governing bodies of Adams County and the participating jurisdictions listed above. Records of adoption can be found in **Appendix C**.

1.2 Purpose

Adams County and several participating jurisdictions have prepared this updated local hazard mitigation plan to guide hazard mitigation planning, in order to make the County more disaster resistant and to better protect the people and property of the County from hazard events. This plan demonstrates the communities' commitment to reducing risks from hazards and serves as a tool to help decision makers direct mitigation activities and resources.

Information in this plan will be used to help guide and coordinate mitigation activities and decisions for local land use policy in the future. Proactive mitigation planning will help reduce the cost of disaster response and recovery to communities and their residents by protecting critical community facilities, reducing liability exposure, and minimizing overall community impacts and disruptions. The Adams County planning area has been affected by hazards in the past and is thus committed to reducing future impacts from hazard events and becoming eligible for mitigation-related federal funding.



This plan was also developed to make and maintain Adams County's and participating jurisdiction's eligibility for certain federal disaster assistance, specifically the Federal Emergency Management Agency's (FEMA), Hazard Mitigation Assistance (HMA) grants including the Hazard Mitigation Grant Program (HMGP), Flood Mitigation Assistance (FMA), and Building Resilient Infrastructure and Communities (BRIC) grant program, as well as the Rehabilitation of High Hazard Potential Dam grant program (HHPD).

1.3 Background & Scope

Each year in the United States, natural disasters take the lives of hundreds of people and injure thousands more. Nationwide, taxpayers pay billions of dollars annually to help communities, organizations, businesses, and individuals recover from disasters. These monies only partially reflect the true cost of disasters, because additional expenses to insurance companies and nongovernmental organizations are not reimbursed by tax dollars. Many natural disasters are predictable, and much of the damage caused by these events can be alleviated or even eliminated.

Hazard mitigation is defined by FEMA as "any sustained action taken to reduce or eliminate long-term risk to human life and property from a hazard event." A congressionally mandated independent study assessing future savings from mitigation activities determined that mitigation activities are highly cost-effective; on average, each dollar spent on mitigation saves society an average of \$6 in avoided future losses in addition to saving lives and preventing injuries (Natural Hazard Mitigation Saves: 2017 Interim Report).

Hazard mitigation planning is the process through which hazards that threaten communities are identified, likely impacts of those hazards are determined, mitigation goals are set, and appropriate strategies to lessen impacts are determined, prioritized, and implemented. This plan documents the planning process that was followed, analyzes relevant hazards and vulnerabilities, assesses mitigation capabilities, and identifies strategies the County and participating jurisdictions will use to decrease vulnerability and increase resiliency in Adams County.

This plan builds on previous mitigation planning in Adams County going back more than 15 years, first with the 2004 Denver Regional Council of Governments (DRCOG) Regional Hazard Mitigation Plan; the 2011 update of that plan; and the 2014 Imagine Adams County Comprehensive Plan which incorporated mitigation planning throughout the document. The plan is intended to be a living document through ongoing implementation and regular updates, and will be integrated into the County's next Comprehensive Plan update.

1.4 Multi-Jurisdictional Planning

The 2020 Adams County Mitigation Plan is a multijurisdictional plan that geographically covers everything within Adams County's jurisdictional boundaries (hereinafter referred to as the planning area). The following communities and special districts participated fully throughout the planning process:

- Adams County
- City of Brighton
- City of Commerce City
- Town of Bennett
- Denver Water

Each jurisdiction developed its own annex, which provides a more detailed assessment of the jurisdiction's unique risks as well as their mitigation strategy to reduce long-term losses. Each jurisdictional annex contains the following:

- Community profile summarizing geography and climate, history, economy, population growth and development trends



- Hazard information on location, previous occurrences, probability of future occurrences, climate change considerations, and magnitude/severity (extent) for each hazard
- Hazard map(s) at an appropriate scale for the jurisdiction, if available
- Number and value of buildings, critical facilities, and other community assets located in hazard areas, if available
- Vulnerability information in terms of future growth and development in hazard areas
- A capability assessment describing existing regulatory, administrative, technical, and fiscal resources and tools as well as outreach efforts and partnerships and past mitigation projects. Includes an assessment of opportunities to enhance existing capabilities as well.
- Mitigation actions specific to the jurisdiction, including a review of previous actions from the 2014 plan and progress made on implementation.

The following additional jurisdictions in the planning area participated in the planning process as stakeholders. These jurisdictions are already included in other FEMA-approved hazard mitigation plans, and therefore chose not to “fully” participate in this plan update as defined by FEMA. Information from these stakeholder jurisdictions has been into the 2020 Adams County Plan where feasible.

- City of Arvada (covered by the 2016 Jefferson County HMP)
- City of Aurora (covered by the 2016 City of Aurora HMP)
- City of Federal Heights (covered by the 2017 Thornton, Federal Heights, and Northglenn HMP)
- City of Northglenn (covered by the 2017 Thornton, Federal Heights, and Northglenn HMP)
- City of Thornton (covered by the 2017 Thornton, Federal Heights, and Northglenn HMP)
- City of Westminster (covered by the 2018 City of Westminster HMP)



2 Community Profile

Located on the northern edge of the Denver metropolitan area, Adams County is the 5th most populous county in Colorado, and 39th largest in terms of size. Adams County is part of the Denver–Aurora–Lakewood, CO Metropolitan Statistical Area.

2.1 County History

In 1901, the Colorado General Assembly voted to split what was then Arapahoe County into three parts: a new Adams County, a new consolidated City and County of Denver, and the remainder of the Arapahoe County to be renamed South Arapahoe County. Adams County was named after Alva Adams, a popular governor who was in office at the time. A ruling by the Colorado Supreme Court, subsequent legislation, and a referendum delayed the creation of Adams County until November 15, 1902. The first meeting of the Adams County Board of Commissioners was held Dec. 4, 1902, in Brighton. Governor James Bradley Orman designated Brighton as the temporary Adams County Seat; this was made permanent by popular vote on November 8, 1904.

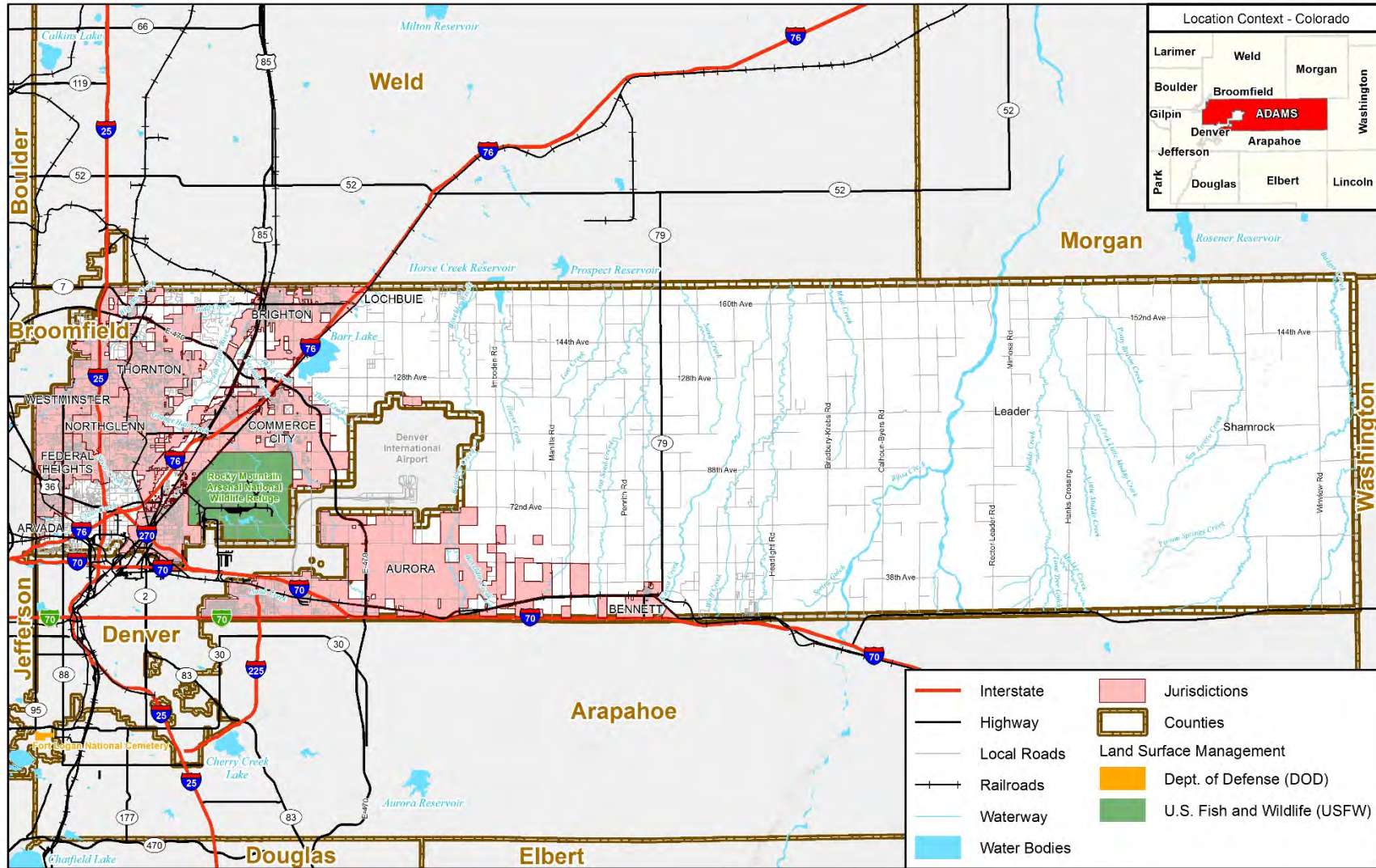
Adams County originally stretched 160 miles from present-day Sheridan Boulevard to the Kansas state border. On May 12, 1903, the eastern 88 miles of Adams County was transferred to the new Washington County and the new Yuma County, reducing the length of Adams County to the present 72 miles.

A 1989 vote transferred 53 square miles of Adams County to the City and County of Denver for the Denver International Airport, leaving the densely populated western portion of the county as two oddly shaped peninsulas. Adams County lost the tip of its northwest corner when the consolidated City and County of Broomfield was created on November 15, 2001.

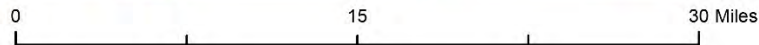
2.2 Geography

Adams County contains a total of 1,185 square miles (759,000 acres). The County stretches approximately 17 miles in latitude (north to south) and is approximately 72 miles wide (east to west). Adams County is bordered to the south by the City & County of Denver and Arapahoe County; to the west by Jefferson County and the City & County of Broomfield, to the north by Weld County, and to the east by Morgan and Washington Counties.

Figure 2-1 Adams County



Map compiled 9/2019;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI World Terrain Map



2.3 Cities and Communities

Eight incorporated cities and two towns are wholly or partially located in Adams County:

- City of Arvada (part in Jefferson County)
- City of Aurora (part in Arapahoe & Douglas Counties)
- City of Brighton (part in Weld County)
- City of Commerce City
- City of Federal Heights
- City of Northglenn (part in Weld County)
- City of Thornton (part in Weld County)
- City of Westminster (part in Jefferson County)
- Town of Bennett (part in Arapahoe County)
- Town of Lochbuie (part in Weld County)

Adams County also includes the following unincorporated communities:

- Berkley
- Derby
- Henderson
- North Washington
- Shaw Heights
- Sherrelwood
- Strasburg (mostly in Arapahoe Co.)
- Todd Creek
- Twin Lakes
- Watkins (mostly in Arapahoe Co.)
- Welby

The County is served by 10 fire districts, 12 school districts, and 45 water and sanitation districts.

Colleges and universities located within Adams County include:

- University of Colorado Denver Anschutz Medical Campus
- Colorado State University Extension
- Front Range Community College – Brighton Center
- Front Range Community College – Westminster campus

2.4 Demographics

This section was updated using data from the U.S. Census Bureau's 2012-2017 American Community Survey (ACS) 5-Year Estimates, and the Colorado State Demography Office.

As of 2017, the U.S. Census Bureau estimated Adams County's total population at 487,850. This constitutes a 10% increase in population since 2012 (442,996), and a 169% increase since 1970 (187,062). Since 2000, the County's growth has come equally from natural change (49.1%) and from migration (49.7%). Table 2-1 below lists population estimates for each jurisdiction and shows how they have changed in the last five years.

Table 2-2 and Table 2-3 show several key demographic and social characteristics of Adams County, how those characteristics have changed over the last five years, and how those characteristics compare to the rest of the state and nation.



Table 2-1 Adams County Population Change, 2012-2017

Jurisdiction	2012	2013	2014	2015	2016	2017	Growth 2012-2017
Adams County	442,996	452,030	461,558	471,206	479,977	487,850	10%
Arvada	106,965	108,300	109,800	111,658	113,532	115,320	8%
Aurora	326,249	332,820	339,480	345,867	351,131	357,323	10%
Bennett	1,996	1,900	1,898	1,915	2,097	2,291	15%
Brighton	33,219	34,247	35,004	35,582	36,307	38,016	14%
Commerce City	45,537	47,239	48,792	50,346	51,731	52,905	16%
Federal Heights	11,598	11,654	11,835	12,037	12,173	12,449	7%
Lochbuie	4,799	4,947	5,127	5,222	5,367	5,675	18%
Northglenn	35,958	36,471	37,075	37,754	38,128	38,473	7%
Thornton	118,747	121,814	124,707	127,688	130,511	132,310	11%
Westminster	106,750	108,042	109,296	110,598	111,770	111,895	5%
Colorado	5,042,853	5,119,329	5,197,580	5,278,906	5,359,295	5,436,519	8%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.

Table 2-2 Adams County Demographic and Social Characteristics, 2012-2017

Adams County	2012	2017	% Change
Population	442,996	487,850	10.1%
Median Age	32.4	33.4	3.1%
Total Housing Units	163,245	169,275	3.7%
Housing Occupancy Rate	92.5%	96.0%	3.8%
% of Housing Units with no Vehicles Available	4.8%	5.3%	10.4%
Median Home Value	\$188,100	\$241,900	28.6%
Unemployment	9.5%	5.1%	-46.3%
Mean Travel Time to Work (minutes)	28.3	29.2	3.2%
Median Household Income	\$56,633	\$64,087	13.2%
Per Capita Income	\$24,357	\$27,487	12.9%
% of Individuals Below Poverty Level	14.2%	12.2%	-14.1%
% Without Health Insurance	21.0%	13.4%	-36.2%
# of Households	151,034	162,508	7.6%
Average Household Size	2.91	2.98	2.4%
% of Population Over 25 with high school diploma	81.1%	82.6%	1.8%
% of Population Over 25 with bachelor's degree or higher	20.7%	23.1%	11.6%
% with Disability	9.5%	10.7%	12.6%
% Speak English less than "very well"	13.5%	11.5%	-14.8%

Source: U.S. Census Bureau American Community Survey www.census.gov/



Table 2-3 Demographic and Social Characteristics Compared to the State and Nation

Demographic & Social Characteristics (as of 2017)	County	Colorado	U.S.
Median Age	33.4	36.5	37.8
Housing Occupancy Rate	96.0%	89.8%	87.8%
% of Housing Units with no Vehicles Available	5.3%	5.3%	8.8%
Median Home Value	\$241,900	\$286,100	\$193,500
Unemployment	5.1%	5.2%	6.6%
Mean Travel Time to Work (minutes)	29.2	25.2	26.4
Median Household Income	\$64,087	\$65,458	\$57,652
Per Capita Income	\$27,487	\$38,845	\$31,177
% of Individuals Below Poverty Level	12.2%	11.5%	14.6%
% Without Health Insurance	13.4%	9.4%	10.5%
Average Household Size	2.98	2.55	2.63
% of Population Over 25 with high school diploma	82.6%	91.1%	87.3%
% of Population Over 25 with bachelor's degree or higher	23.1%	39.4%	30.9%
% with Disability	10.7%	10.6%	12.6%
% Speak English less than "very well"	11.5%	6.0%	8.5%

Source: U.S. Census Bureau American Community Survey www.census.gov/

Table 2-4 and Figure 2-2 break down the demographics of the county by sex, race, and age.

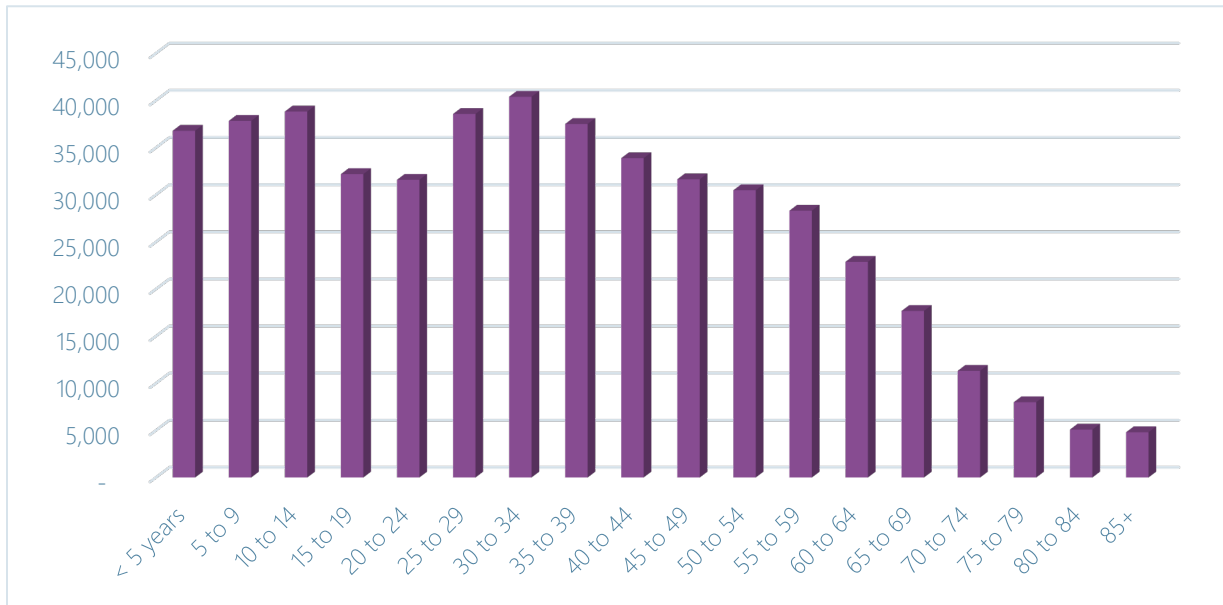
Table 2-4 Demographics by Race and Sex

Adams County	Population	%
Total Population	487,850	
Male	245,840	50.4%
Female	242,010	49.6%
White, not Hispanic	249,239	51.1%
Hispanic or Latino	191,857	39.3%
Black	15,681	3.2%
Asian	19,067	3.9%
American Indian and Alaska Native	5,843	1.2%
Native Hawaiian and Other Pacific Islander	604	0.1%
Some other race	25,235	5.2%
Two or more races	17,023	3.5%

Source: U.S. Census Bureau American Community Survey www.census.gov/



Figure 2-2 Adams County Population by Age



Source: U.S. Census Bureau American Community Survey www.census.gov/

Housing Characteristics

The table below presents the 2017 American Community Survey estimates for types of housing units.

Table 2-5 Types and Total Amounts of Housing Units in Adams County

Type of housing units	Total	Percentage
Total housing units	169,275	
1-unit detached	105,653	62.4%
1-unit attached	12,400	7.3%
2 units	1,459	0.9%
3 or 4 units	4,423	2.6%
5 to 9 units	7,947	4.7%
10 to 19 units	12,029	7.1%
20 or more units	14,578	8.6%
Mobile home	10,684	6.3%
Boat, RV, van, etc.	102	0.1%

Source: U.S. Census Bureau American Community Survey www.census.gov/

According to the 2017 American Community Survey, Adams county had 169,275 total housing units, of which 162,508 (96.0%) were occupied. 64.8% of the occupied housing units were owner-occupied and 35.2% renter-occupied. More than half the total housing units (56%) were built in 1980 or later, and more than a quarter (27%) were built in 2000 or later. Half of residents (50%) had been in their current housing for eight years or less. Only 5.3% of occupied housing units have no vehicles available for private use, which is on par with the state average (5.3%) but well below the national average (8.8% respectively). 73.6% of occupied housing units use utility gas for heating, with another 23.8% using electric heating.

Housing Costs: The median value of owner-occupied housing units in 2017 was \$241,900, a 28.6% increase since 2012; this is below the statewide average for Colorado (\$286,100) but well above the national average (\$193,500). More than 76% of owner-occupied units were valued between \$150,000 and \$500,000. Most owner-occupied units had a mortgage (76.4%), with a median mortgage payment of



\$1,559 per month. 29.5% of owner-occupied mortgaged homes paid more than 30% of their household income on housing.

The median rent cost in 2017 was \$1,172 with 90% falling between \$500 and 2,000 a month. 51.2% of renters were paying 30% or more of their income on housing.

Households and Families: Out of 162,508 total households in 2017, 115,202 (70.9%) were family households. The average household size was 2.98 persons, although the average family size was 3.51.

Income and Employment: The median household income in 2017 was \$64,087, a 13.2% increase over 2012; this is below the statewide average of \$65,458. Per capita income increased similarly during this period, from \$24,357 to \$27,487 (12.9%). There were 260,199 people in the labor force with an unemployment rate of 5.1%, down sharply from 9.5% in 2012. Figure 2-3 shows the breakdown of households earning different income levels in the County as of 2017.

Figure 2-3 Income Distribution in Adams County



Source: U.S. Census Bureau American Community Survey www.census.gov/

Poverty: In 2017, 12.2% of Adams County residents lived in poverty, a decrease of 14.1% since 2012. 16.4% of children under 18 were below the poverty level, compared with 8.5% of people 65 years old and over. 9.3% of families had incomes below the poverty level, although that number increases to 23.8% for families with a female householder and no adult male present.

Language: Among people at least five years old living in Adams County in 2017, 71.4% spoke primarily English at home. Spanish was spoken in 23.3% of homes, followed by Asian and Pacific Islander languages (2.9%) and other Indo-European languages (1.8%). 11.5% of households reported they spoke English less than “very well”, which is above the statewide and national averages (6.0% and 8.5% respectively).

Education: In 2017, 82.6% of people 25 years and over had at least graduated from high school, and 23.1% had a bachelor's degree or higher; both of these are increases since 2012 (1.8% and 11.6% respectively), but are still below average for Colorado and the Nation. The total school enrollment in Adams County was 129,656. Nursery school and kindergarten enrollment was 15,621 and elementary through high school enrollment was 89,910 children. College or graduate school enrollment was 24,125.

People with Disabilities: 51,764 persons (10.7%) were living with some form of disability in 2017. This was a 12.6% increase from 2012 and is close to statewide averages (10.6%) and slightly below the national average (12.6%).



Health Insurance Coverage: As of 2017, 13.4% of residents had no health insurance coverage, including 16.6% of employed individuals and 37.0% of unemployed individuals. Of those with health insurance, 62.6% had private insurance and 32.1% had public insurance.

2.5 Social Vulnerability

Social vulnerability refers to a community's capacity to prepare for and respond to the stress of hazardous events ranging from natural disasters, such as tornadoes or disease outbreaks, to human caused threats, such as toxic chemical spills. Social vulnerability considerations were included in this plan update to identify areas across the County that might be more vulnerable to hazard impacts based on a number of factors.

The Center for Disease Control and Prevention (CDC) has developed a social vulnerability index (SoVI) as a way to measure the resilience of communities when confronted by external stresses such as natural or human-caused disasters or disease outbreaks. The SoVI is broken down to the census tract level, and provides insight into particularly vulnerable populations to assist emergency planners and public health officials identify communities more likely to require additional support before, during, and after a hazardous event. The SoVI index combines four main themes of vulnerability, which are in turn broken down into subcategories for a total of 15 vulnerability factors. Table 2-6 displays those 15 factors and shows how Adams County compares to other counties in Colorado and nationally. The rankings show the percentage of counties that Adams County is more vulnerable than, i.e. – high numbers are worse.

Table 2-6 Social Vulnerability in Adams County

Theme	Variable	Ranking Compared to Colorado Counties	Ranking Compared to US Counties	Vulnerability
Socioeconomic status		65%	40%	Below Average
	Below poverty	44%	28%	Below Average
	Unemployment	46%	31%	Below Average
	Income	48%	31%	Below Average
	No high school diploma	94%	74%	High
Household composition and disability		63%	40%	Below Average
	Age 65 or older	0%	1%	Low
	Age 17 or younger	95%	93%	High
	Disability	33%	9%	Low
	Single-parent households	95%	85%	High
Minority status and language		98%	94%	High
	Minority	95%	88%	High
	Speaking English "less than well"	95%	94%	High
Housing and transportation		65%	55%	Above Average
	Multiunit structures	83%	95%	High
	Mobile homes	35%	30%	Below Average
	Crowding	95%	93%	High
	No vehicle	52%	32%	Below Average
	Group quarters	24%	9%	Low
Overall Social Vulnerability		79%	59%	Above Average

Source: U.S. CDC <https://svi.cdc.gov> (using data from U.S. Census Bureau American Community Survey, 2014-2018)

Adams County's social vulnerability is above average overall compared to the rest of the United States, and high compared to the rest of Colorado:



- Socioeconomic vulnerability is generally below average, but the County has a relatively high number of people who do not have high school diplomas.
- Adams County has a low percentage of elderly and people with disabilities. However, it has a high percentage of children and single-parent households.
- Adams County has a high percentage of racial minorities, who historically are hardest hit by disasters, as well as people who speak English "less than well," complicating disaster communications.
- A high percentage of Adams County residents live in multi-unit structures, or in housing units with more people than rooms, which can complicate evacuations.

Figure 2-4 through Figure 2-13 display SoVI data for Adams County by census tract. Based on this data, the areas with the highest level of social vulnerability are located in the western portion of the County, in and around the incorporated jurisdictions of Aurora, Brighton, Arvada and Federal Heights.

Additional information on the CDC's Social Vulnerability Index can be found at <https://svi.cdc.gov>.

Figure 2-4 Overall Social Vulnerability in West Adams County

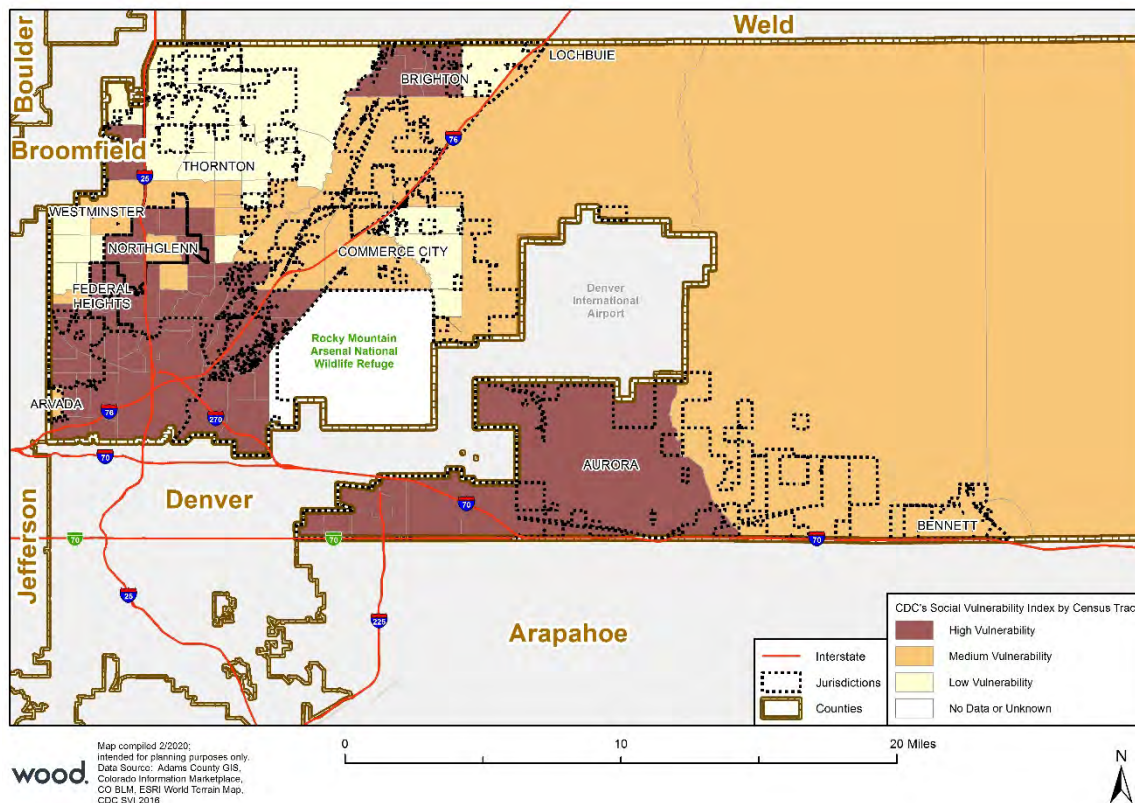


Figure 2-5 Overall Social Vulnerability in East Adams County

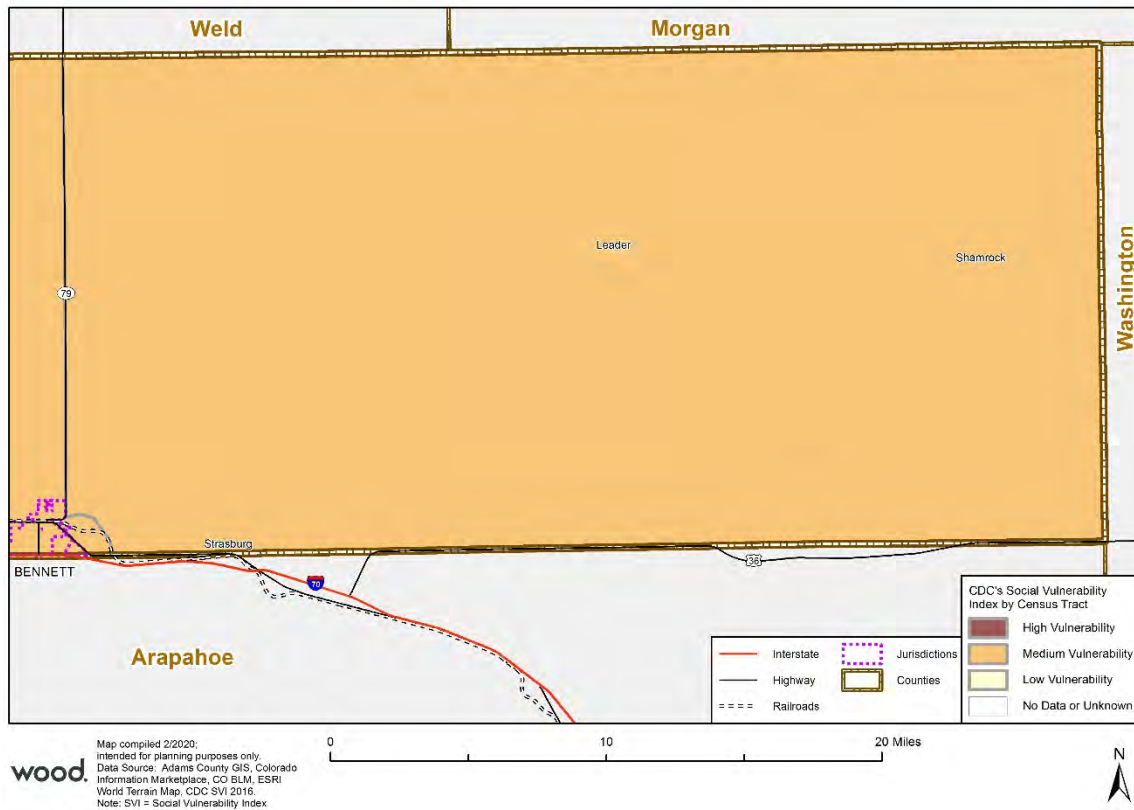


Figure 2-6 Socioeconomic Status Vulnerability in West Adams County

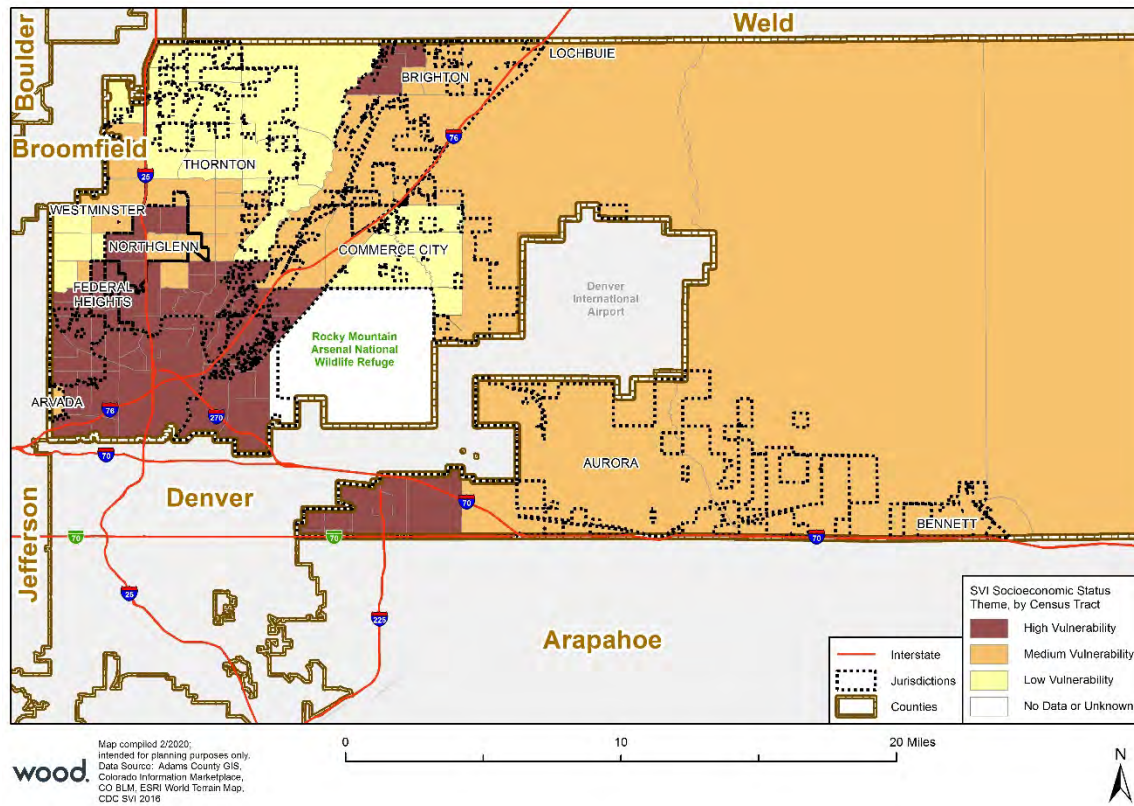


Figure 2-7 Socioeconomic Status Vulnerability in East Adams County

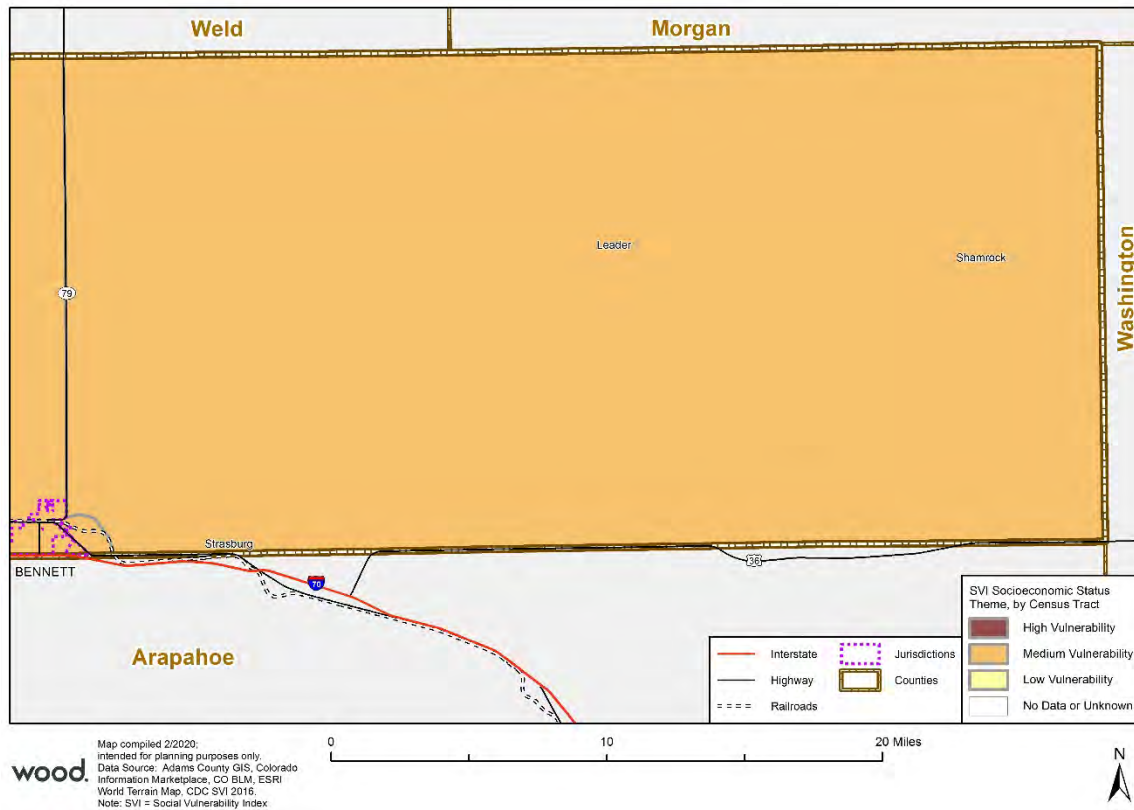


Figure 2-8 Household Composition and Disability Status in West Adams County

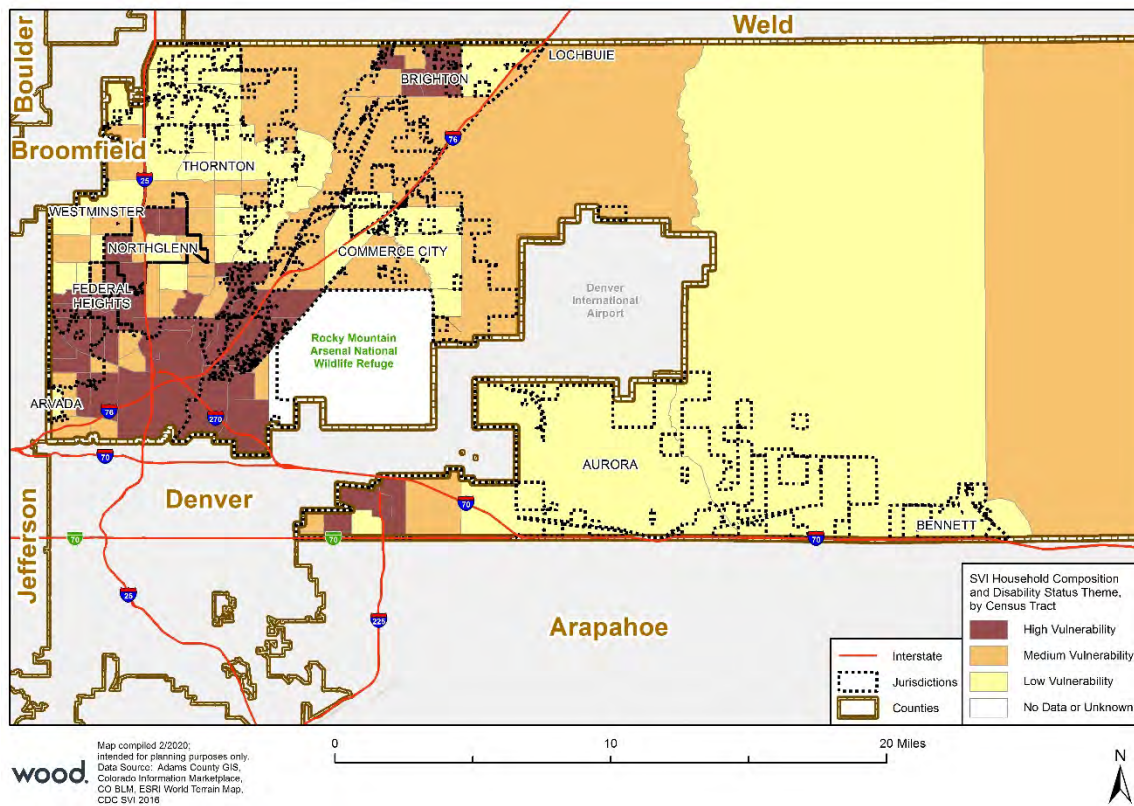


Figure 2-9 Household Composition and Disability Status in East Adams County

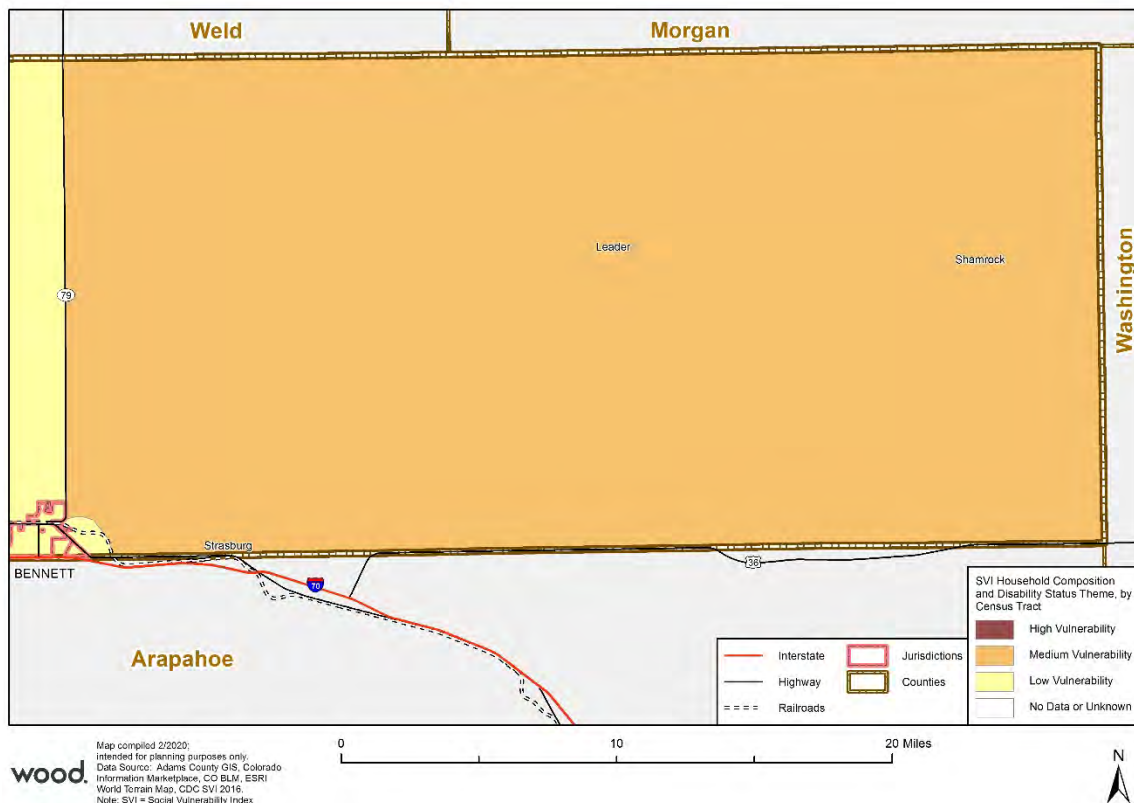


Figure 2-10 Minority Status and Language Vulnerability in West Adams County

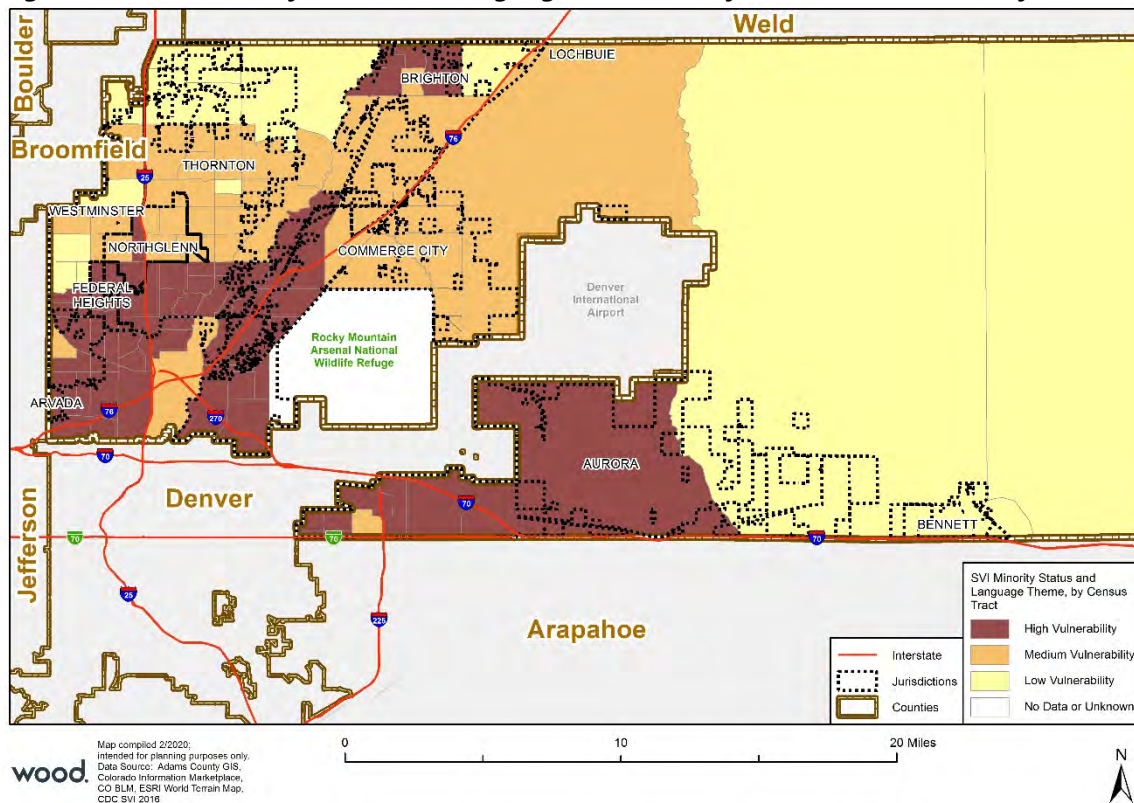


Figure 2-11 Minority Status and Language Vulnerability in East Adams County

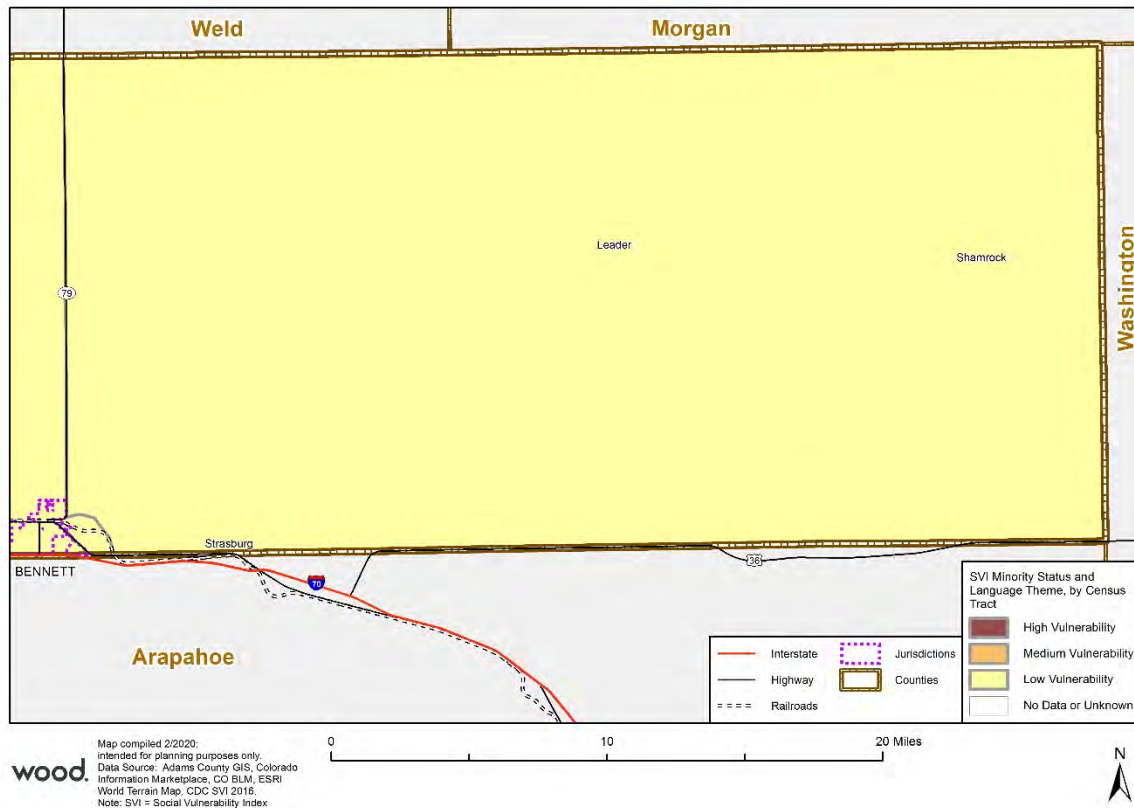


Figure 2-12 Housing and Transportation Vulnerability in West Adams

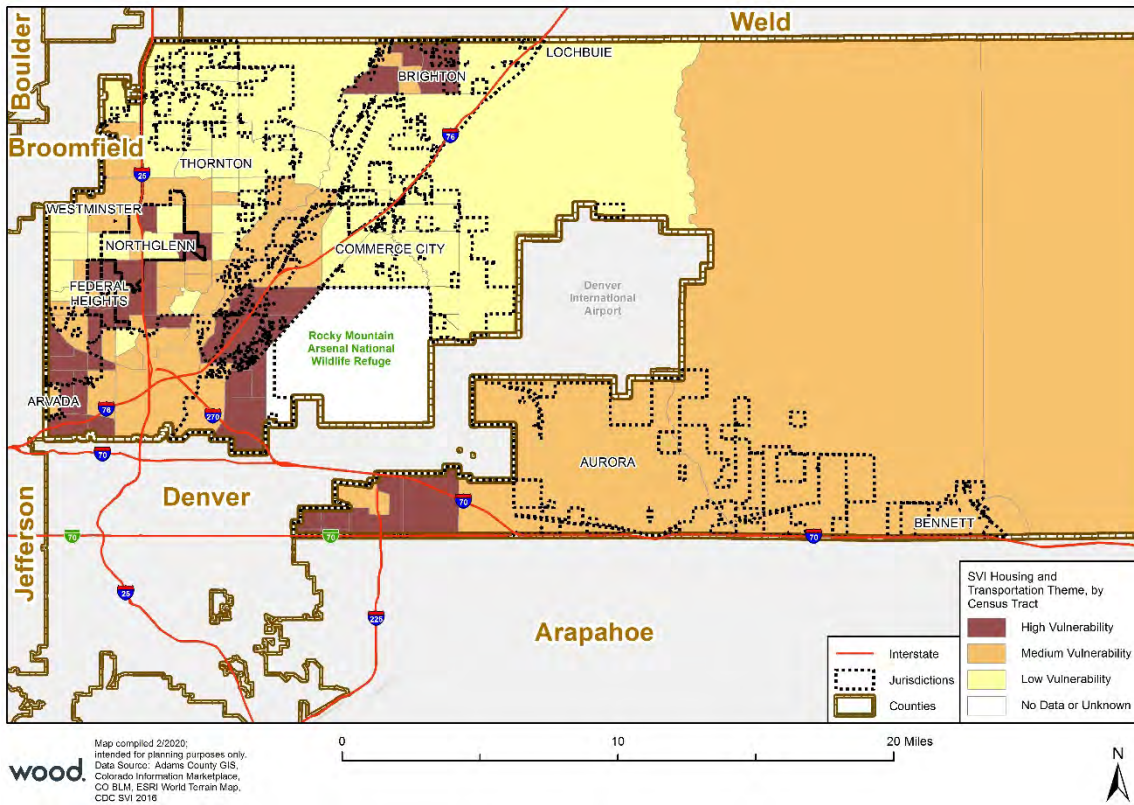
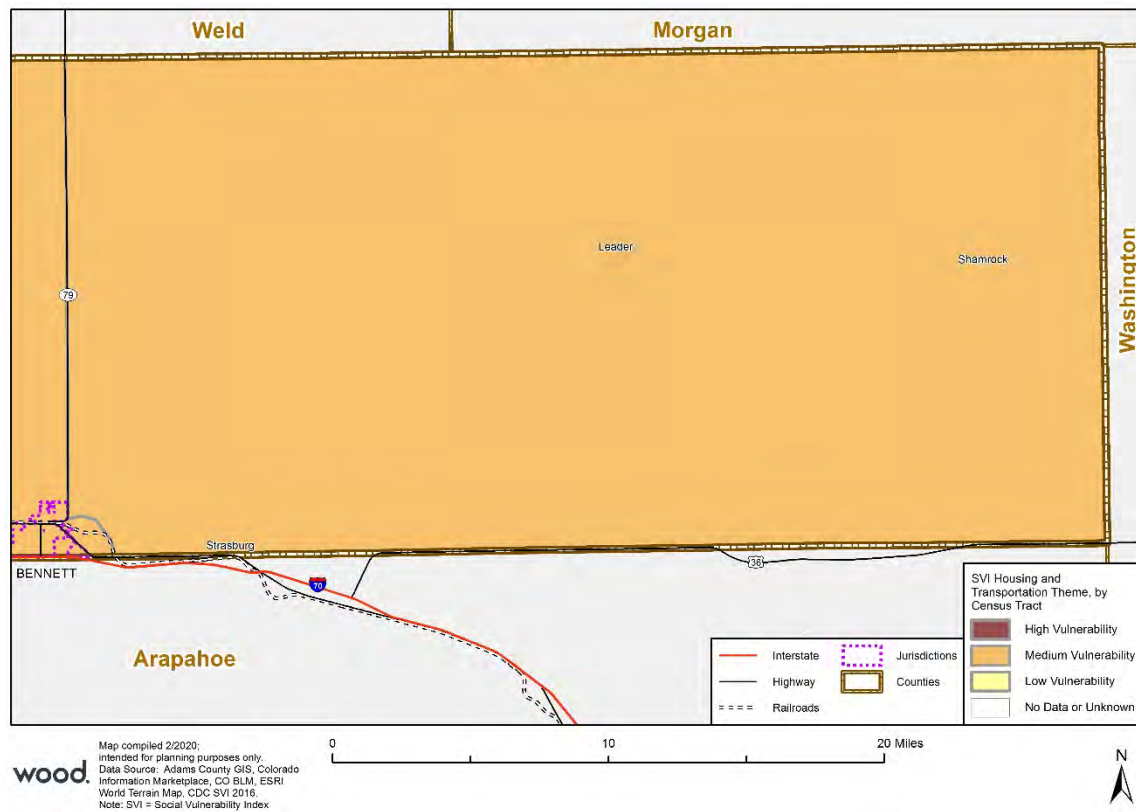


Figure 2-13 Housing and Transportation Vulnerability in East Adams County



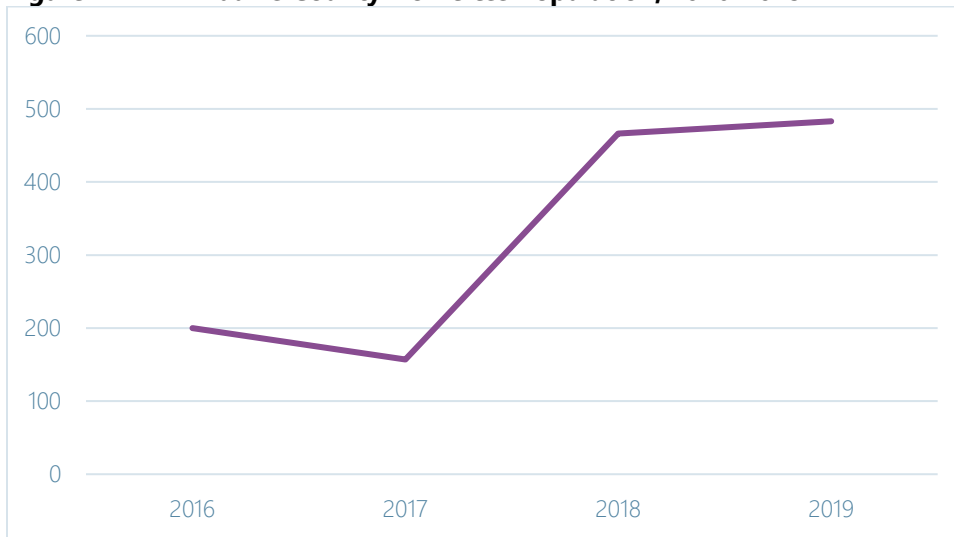
2.5.1 Homeless Population

The Metro Denver Homeless Initiative (MDHI) releases annual Point In Time estimates of the homeless population in the Denver metropolitan area; these are only snapshot estimates, and MDHI cautions against placing too much stock in exact numbers. Nevertheless, they can show broad trends over time.

For 2019 MDHI estimated Adams County's homeless population at 483, a 142% increase since the 2016 estimate of 200 persons. (Data from before 2016 is not included due to changes in counting methodology.) This represents 8.4% of the homeless population in the Denver metropolitan area, which was estimated at 5,755 in 2019. It is worth noting that the homeless population across the Denver metro area has remained relatively consistent since 2016; the increased homeless population in Adams County seems to be primarily the result of people moving from neighboring counties.



Figure 2-14 Adams County Homeless Population, 2016-2019



Source: Metro Denver Homeless initiative <https://www.mdhi.org/pit>

Table 2-7 Adams County Homeless Population Characteristics

Characteristic	#
Total estimated homeless population	483
Unsheltered	139
Emergency Shelter	297
Transitional Housing	47
Newly Homeless	66
Chronically Homeless	128
Veterans	44
Families	33
Unaccompanied Youth (<25)	19
Fleeing Domestic Violence	32

Source: Metro Denver Homeless initiative <https://www.mdhi.org/pit>

2.6 Economy

The civilian workforce in Adams County, defined as all employed residents 16 years or older, was 246,450 in 2017. This is an increase of 15.3% since 2012, which exceeds the County’s population growth of 10.1% and is reflected in the lower unemployment rate. 82.8% of those employed worked 35 or more hours per week. The breakdown of workers by class of work is shown in Table 2-8, while Table 2-9 shows the breakdown by industry.



Table 2-8 Civilian Employed Population in Adams County by Class of Work

CLASS OF WORKER	2012	2017	% Increase	% of Total
Civilian employed population 16 years and over	213,794	246,450	15.3%	100%
Private wage and salary workers	178,229	205,956	15.6%	83.6%
Government workers	24,973	27,606	10.5%	11.2%
Self-employed in own not incorporated business workers	10,396	12,637	21.6%	5.1%
Unpaid family workers	196	251	28.1%	0.1%

Source: U.S. Census Bureau American Community Survey www.census.gov/

Table 2-9 Civilian Employed Population in Adams County by Industry

INDUSTRY	2012	2017	% Increase	% of Total
Civilian employed population 16 years and over	213,794	246,450	15.3%	100%
Educational services, and health care and social assistance	34,129	42,025	23.1%	17.1%
Construction	22,539	29,650	31.5%	12.0%
Retail trade	26,442	27,825	5.2%	11.3%
Professional, scientific, and management, and administrative and waste management services	24,287	27,593	13.6%	11.2%
Arts, entertainment and recreation, and accommodation and food services	19,365	25,154	29.9%	10.2%
Manufacturing	19,804	20,918	5.6%	8.5%
Transportation and warehousing, and utilities	15,827	17,999	13.7%	7.3%
Other services, except public administration	11,119	12,659	13.9%	5.1%
Finance and insurance, and real estate and rental and leasing	12,936	12,106	-6.4%	4.9%
Public administration	9,489	10,158	7.1%	4.1%
Wholesale trade	8,634	9,206	6.6%	3.7%
Information	6,426	6,759	5.2%	2.7%
Agriculture, forestry, fishing and hunting, and mining	2,797	4,398	57.2%	1.8%

Source: U.S. Census Bureau American Community Survey www.census.gov/

59.9% of employed County residents worked outside of Adams County. The median commuting time (whether employed inside or outside the County) was 29.2 minutes, an increase of 3.2% since 2012, and slightly above both Colorado and National averages (25.2 minutes and 26.4 minutes respectively).

44,138 workers (16.1%) were classified as government workers, of which 41,383 were employed in state or local government, 1,121 were employed by the federal government, and 1,634 were in the military.

Total personal income of Adams County residents was over \$21B, a 24% increase since 2012. 71.8% of that income came from labor earnings and 28.2% from non-labor sources such as interest, dividends, and age or hardship payments.

2.7 Climate

Adams County lies within the semi-arid, continental climate zone. It has four distinct seasons and receives most of its precipitation from April through August. Due to its inland location on the High Plains at the foot of the Rocky Mountains, the County can be subject to sudden changes in weather. Similarly, the weather can vary widely in different parts of the County.



May is the wettest month in Adams County with 9.7 days of precipitation, and January is the driest month with only 4.4 precipitation days. There are 79.5 rainy days annually in Adams County, which is about average compared to other places in Colorado. The wettest months are May through August when it rains 31% of the time and the driest are October through February with only a 18% chance of precipitation.

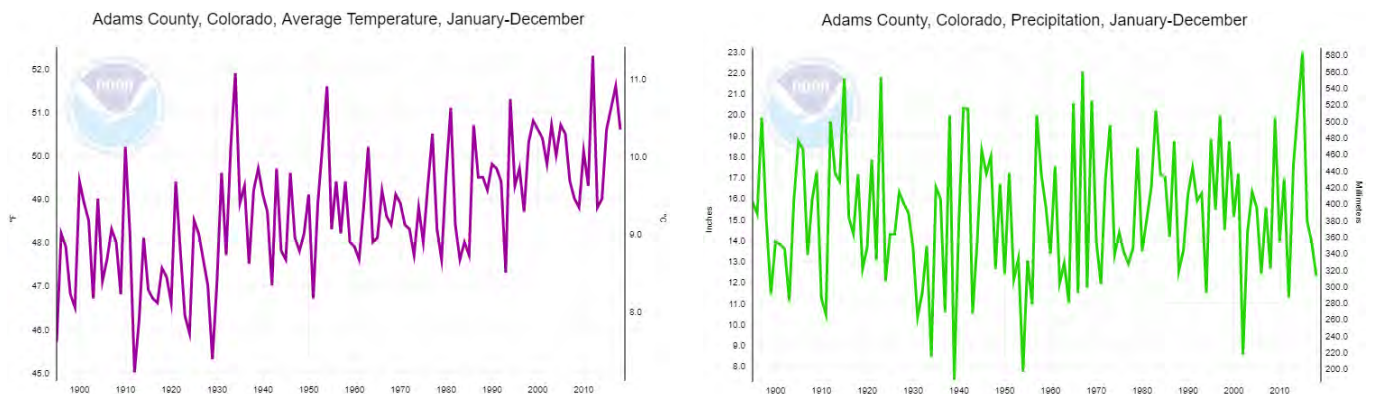
An annual snowfall of 52.3 inches in Adams County means that it is about average compared to other places in Colorado. March is the snowiest month in Adams County with 10.1 inches of snow, and 9 months of the year have recorded snowfall.

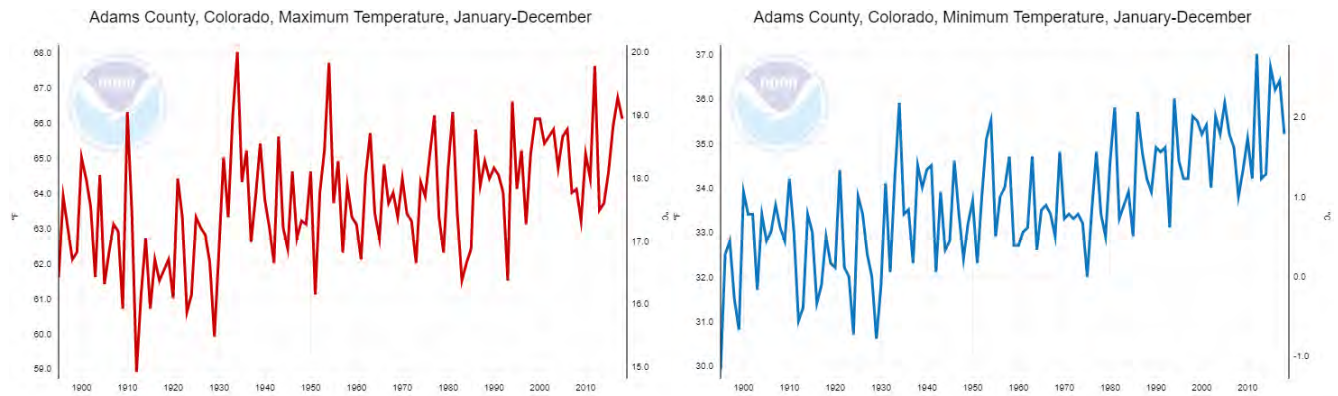
Table 2-10 Adams County Climate

	Adams County
Rainfall, annual average	16"
Snowfall, annual average	52"
Sunny Days, annual average	245
Days with some precipitation (≥ 0.1 "), annual average	80
Summer High, average (July)	89.7°
Days with highs above 90°, annual average	40
Winter Low, average (December)	16.9°
Nights with lows below 32°, annual average	156
Nights with lows below 0°, annual average	6
Wettest month (May)	2.3"
Driest month (January)	0.5"
Snowiest month (March)	10.1"

The following charts from the National Weather Service show the annual average temperature, average precipitation, average maximum temperature, and average minimum temperature for Adams County from 1890 to 2019.

Figure 2-15 Temperature and Precipitation Trends for Adams county, 1890-2019





Source: National Weather Service Climate at a Glance: <https://www.ncdc.noaa.gov/cag/>

2.8 Governing Body

The Board of County Commissioners consists of five constitutional officers who act collectively as the governing board. The board manages the affairs of the County as authorized by the state. Powers granted to the board by the state are broad, which allow the board independence in judgment.

The County Manager implements the policies and priorities of the Board of County Commissioners and oversees the day-to-day operations of the county.

Other County elected officials include the County Assessor, Clerk and Recorder, Coroner, District Attorney (17th Judicial District), Sheriff, Surveyor, and Treasurer.

2.9 Transportation Systems

Several transportation systems including interstate and state highways, freight and commuter rail lines, as well as a regional and an international airport are located in and/or traverse through Adams County. The following is a breakdown of the major transportation systems that serve the County and the region.

Major Highways

The County's roadway network follows one-mile section lines in the western portion while the eastern portion network is sparse and predominately unpaved roads (Adams County 2012). The following are the major interstate highways that traverse the County and provide regional and statewide connections:

- I-25
- I-70
- I-76
- I-225
- I-270

All of these major interstates also serve as hazardous material and nuclear material routes. Refer to Chapter 4 Risk Assessment for additional information of the County's vulnerability to hazardous material incidents.

Additional highway routes in the County include:

- E-470 – Tollway and part of Denver metropolitan area's beltway.
- U.S. 36 – Extends from I-25 in Adams County to City of Boulder.
- U.S. 85 – Travels through Adams County north to City of Greeley and south to City and County of Denver.
- SH 79 – Travels north through the Town of Bennett. Also known as Kiowa-Bennett Road.

Rail Lines

Frighth railroad lines for Union Pacific Railroad (UPRR) and Burlington Northern Santa Fe Railway (BNSF) traverse through Adams County. The UPRR mainline tracks run parallel to U.S. 85; according to the County's 2012 Transportation Plan, this mainline averages 11 to 15 trains per day. Another UPRR line travels through the County parallel to Smith Road/Colfax Avenue and averages 6 to 8 trains per day (Adams County 2012). The BNSF mainline tracks run parallel to State Highway 2 and north of the I-76 interchanges and averages 28 to 30 trains per day. The BNSF also has a railroad line in the southwest corner of the County traveling from Denver to Boulder that averages 1 to 3 trains per day (Adams County 2012).

Regional Transportation District

The Regional Transportation District (RTD) provides commuter rail services around the Denver metropolitan area. Currently the G and A Lines are the only constructed commuter lines that traverse portions of western Adams County. The A Line runs from Denver's Union Station to Denver International Airport, while the G Line runs from Union Station to Arvada. Both of these rail lines were part of RTD's FasTracks project, a multi-billion dollar comprehensive transit expansion plan to build 122 miles of new commuter rail and light rail services as well as 18 miles of rapid bus transit for convenient bus and rail connections across the eight-counties RTD serves (RTD 2016). As part of FasTracks, RTD is planning to construct the N Line from Union Station to Thornton, bringing passenger services to Commerce City, Northglenn, Thornton and north unincorporated Adams County. As commuter and light rail services expand throughout the County, both RTD, Adams County and several jurisdictions in the County including, Commerce City, Northglenn, Westminster and Thornton are promoting transit oriented development (TOD) along and around these new rail lines through Station Area Master Plans. In addition to providing rail services, RTD also provides local and regional bus services with several stops located throughout the western portion of Adams County. RTD is planning expansion and improvement of services along many of the existing bus lines that serve the County.

Airports



There are two commercial airports located within or adjacent to Adams County. Denver International Airport (DIA) is the 5th busiest airport in the U.S. with 1600 flights per day on average and a total of 69 million passengers in 2019. While DIA is located in the City and County of Denver, it is surrounded by Adams County and all flights cross over Adams County.

The Colorado Air and Space Port (CASP), formerly known as Front Range Airport, is a general aviation airport averaging 259 flights per day. Originally owned by the Front Range Airport Authority, it has been owned and operated by Adams County since 2014. CASP serves as the base of several flying schools, flight clubs, maintenance services, and air rescue training facilities, as well as a Colorado Army National Guard Armory. In 2018, the Federal Aviation Administration (FAA) approved CASP's designation as a spaceport for sub-orbital horizontal takeoff flights.

Future Transportation Systems and County Transportation Priorities

The following are the County's transportation priorities and transportation systems that are planned for future service for Adams County.

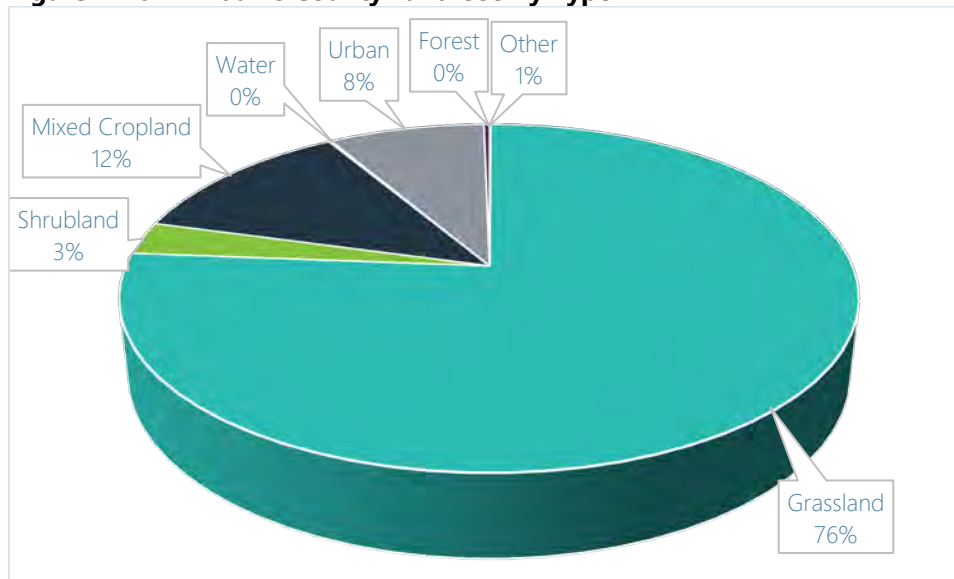
- RTD N Line – Providing train service through Denver, Commerce City, Northglenn, Thornton, and northwest Adams County.
- Denver Regional Council of Governments (DRCOG) Multimodal Freight Plan – Seeks to create a shared vision, a feasible action plan, and identify strategies to improve freight and the movement of goods throughout the Denver region.
- 88th Avenue Widening Environmental Assessment – County is participating in the Commerce City's evaluation of environmental impacts for the 88th Ave project which proposes to widen and make improvements to E. 88th Ave between I-76 and State Highway 2.
- Federal Boulevard Multi-modal Transportation Study – Partnership between Westminster, Federal Heights, and Adams County to complete a multimodal study for north Federal Boulevard.
- I-70 Airpark-Watkins Interchange Study – Collaborative project with Arapahoe County, the City of Aurora, and the Colorado Department of Transportation.

The County has Collaborative Transportation Planning Intergovernmental Agreements (IGAs) with all the incorporated jurisdictions in Adams County as well as the City and County of Broomfield. Through the IGAs, the County works with each of the municipalities to prioritize regional transportation improvements.

2.10 Land Use

Land uses range from intensive urban activities in the western County, to crop and grazing land in the central and eastern County. Eight incorporated cities and two towns are wholly or partially located in Adams County, comprising 15% of the County's total land area. Agricultural activities are the single largest land use throughout the County, accounting for more than three quarters of the land area. An extensive network of canals in the northwest part of the County supports most of the irrigated farmland. The central portion of the County primarily produces wheat, while the eastern area is primarily pasture. A breakdown of land use in the County by type is shown in Figure 2-16.



Figure 2-16 Adams County Land Use By Type

Source: NASA MODIS Land Cover Type Yearly L3 Global 1km MOD12Q1, 2006.

2.10.1 Brownfield Sites

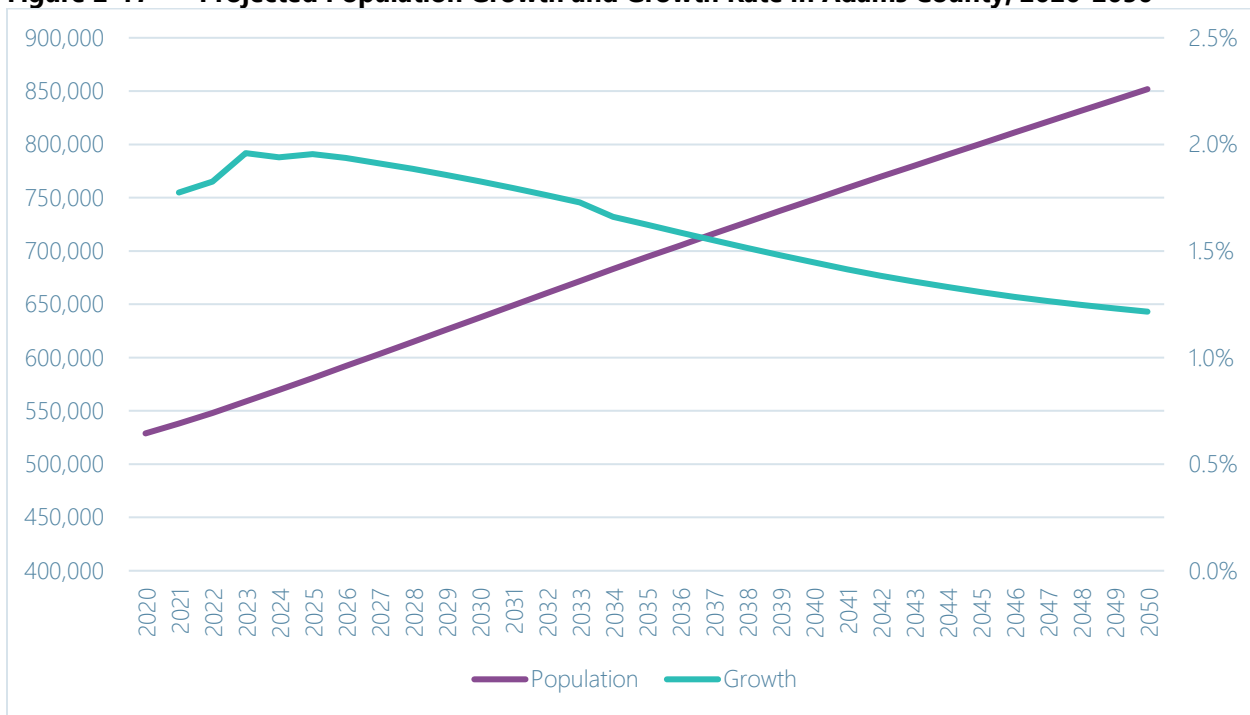
In 2015, Adams County was awarded a \$200,000 Brownfields Assessment Grant from the Environmental Protection Agency (EPA). A brownfield is defined by the EPA as “abandoned, idled or under-used industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.” Through the grant, the Adams County Brownfields Program was formed to identify, assess and revitalize brownfield properties. The target area for the program is the Clear Creek Valley Area along I-76 between Federal Blvd. and Huron St. due to its history of gravel mining and landfills and the proximity to planned RTD light rail stations. Through remediation of brownfield sites, properties can potentially be redeveloped generating tax revenues, creating new jobs, and removing blight from the community.

A current inventory of identified brownfields can be found on the County’s website at <http://www.adcogov.org/brownfields-program>.

2.11 Development Trends

According to the Colorado State Demography Office, between 2020 and 2050 Adams County’s population is projected to grow at an average of 1.6% a year; this is above the State’s projected growth rate of 1.1% over the same time period. As shown in Figure 2-17, the County’s growth rate is forecasted to average 1.9% per year through 2030, after which it is projected to fall off to an average of 1.3% in the 2040s. The County’s population is projected to exceed 600,000 by the year 2027, 700,000 by 2036, and 500,000 by 2045.

Figure 2-17 Projected Population Growth and Growth Rate in Adams County, 2020-2050



Source: Colorado State Demography Office <https://demography.dola.colorado.gov/>

As mentioned in Section 2.9, in August 2018, the Federal Aviation Administration granted a site operator license to Colorado Air and Space Port (CASP), located six miles southeast of Denver International Airport. CASP will serve as America’s hub for commercial space transportation, research, and development and will also provide a boost to the state’s economy by keeping the nearly 200,000 aerospace jobs in Colorado and creating new employment opportunities. County representatives have been working hard to pave the way for business expansion. Japan-based PD Aerospace LTD. recently signed a letter of intent to explore the possibilities of the development and expansion of its commercial activities at CASP. PD Aerospace is a spacecraft manufacturer with business offices in Nagoya, Japan, and a research and development facility in Hekinan City.

Adams County is a popular location for notable new commercial development. Maxar Technologies, Inc., Denver Premium Outlets, and Gaylord Rockies Resort & Convention Center have all become part of the Adams County landscape within the past year. Much of the open land surrounding Denver International Airport, the fifth-busiest airport in the U.S., is in Adams County. A regional aerotropolis concept is in the works, bringing a boon of commercial development to that corner of the county.

The county’s increased economic prosperity has also directly benefited its educational prospects. In 2019, 60 Adams County high school students were awarded scholarships totaling more than \$1 million to attend Colorado public higher education institutions. The scholarships were funded with a voter-approved three percent sales tax on retail marijuana sales in unincorporated Adams County, and the Colorado Opportunity Scholarship Initiative matched the sales tax funds to increase the scholarship pool.



3 Planning Process

DMA Requirements §201.6(b) and §201.6(c)(1):

An open public involvement process is essential to the development of an effective plan. In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include:

An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;

An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia, and other private and non-profit interests to be involved in the planning process; and

Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.

[The plan shall document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.

3.1 Background on Mitigation Planning in Adams County

The primary purpose of the Adams County Hazard Mitigation Plan (HMP) update is to reduce or eliminate long-term risk to people and property from natural and human-caused hazards and their effects on the Adams County planning area. Recognizing the importance of hazard mitigation planning, Adams County participated in the 2004 Denver Regional Council of Governments (DRCOG) Denver Regional Natural Hazards Plan, as well as the 2011 update of that plan. In 2014 Adams County developed their own Local Hazard Mitigation Plan specific to the County, and fully integrated the plan with the County's Comprehensive Plan, *Imagine Adams County*. Additional details on the previous planning effort can be referenced in the 2014 Plan.

The Hazard Mitigation Plan (HMP) underwent a comprehensive update in 2020. The planning process followed during the update was similar to what was used in the original plan development. This planning process utilized the input from a multi-jurisdictional Hazard Mitigation Planning Committee (HMPC). A significant change from the 2014 Plan is the inclusion of three incorporated communities within the planning area, as well the inclusion of Denver Water. A consultant, Wood Environment & Infrastructure Solutions, Inc (Wood) was procured to assist with the update in 2020. The plan update process is described further in this section and documented in Appendix A.

3.2 What's New in the Plan Update

DMA Requirement §201.6(d)(3):

A local jurisdiction must review and revise its plan to reflect changes in development, progress in local mitigation efforts, and changes in priorities, and resubmit it for approval within 5 years in order to continue to be eligible for mitigation project grant funding.

The updated HMP complies with Federal Emergency Management Agency (FEMA) guidance for Local Hazard Mitigation Plans. The update followed the requirements noted in the Disaster Mitigation Act (DMA) of 2000 and FEMA's 2013 Local Hazard Mitigation Planning Handbook.

This multi-jurisdictional, multi-hazard mitigation plan update involved a comprehensive review and update of each section of the 2014 plan and includes an assessment of Adams County's success in evaluating, monitoring, and implementing the mitigation strategy outlined in the initial plan. The process



followed to review and revise the chapters of the plan during the 2019-2020 update is detailed in Table 3-1. All sections of the plan were reviewed and updated to reflect new data and methodologies on hazards and risk, risk analysis processes, capabilities, participating jurisdictions and stakeholders, and mitigation strategies. The plan was also revised to reflect changes in development, including using the latest version of the assessor’s office data as the basis for identifying overall and hazard exposure for developed parcels by County and jurisdiction. Only the information and data still valid from the 2014 plan was carried forward as applicable to this plan update.

The County received funding from the Board of County Commissioners to procure consultant assistance during the 2019-2020 update.

Table 3-1 2020 Plan Update Summary of Changes by Chapter

Plan Section	Update Review and Analysis
1 INTRODUCTION 1.1 Executive Summary 1.2 Purpose 1.3 Background & Scope 1.4 Multi-Jurisdictional Planning	Added an executive summary. Updated language to describe purpose and requirements of the Plan and the update process. Identified new participating jurisdictions and their participation.
2 COMMUNITY PROFILE 2.1 County History 2.2 Geography 2.3 Cities and Communities 2.4 Demographics 2.5 Social Vulnerability 2.6 Economy 2.7 Climate 2.8 Governing Body 2.9 Transportation Systems 2.10 Land use 2.11 Development Trends	Updated with American Community Survey 5-Year Estimates, 2013-2017 census data and current economy description. Included social vulnerability analysis using the Social Vulnerability Index developed by the CDC.
3 PLANNING PROCESS 3.1 Background on Mitigation Planning in Adams County 3.2 What’s New in the Plan Update 3.3 Local Government Participation 3.4 The 10-Step Planning Process	Formerly 2014 Comprehensive Plan Chapters 1, 6 and Appendix E Described and documented the planning process for the 2020 update, including coordination among agencies and integration with other planning efforts. Described any changes in participation in detail. Described 2020 public participation process.
4 RISK ASSESSMENT 4.1 Hazard Identification	Added a subsection on Climate Change Considerations to discuss where climate change could affect the frequency and severity of hazards in the future.



Plan Section	Update Review and Analysis
<p>4.2 Asset Summary 4.3 Hazard Analysis and Risk Assessment</p>	<p>Revisited former hazards list for possible modifications. Including adding dam failure as a separate hazard; previously dam failure was profiled under the flood profile.</p> <p>Added the following human-caused hazards, each profiled separately: cyber threats, hazardous materials, and terrorism/active shooters.</p> <p>Added lightning and hail to thunderstorms profile; previously each hazard was profiled separately.</p> <p>Reviewed hazards from the 2018 Colorado State Hazard Mitigation Plan for consistency.</p> <p>Included the potential for catastrophic releases from abandoned mines as a component of the hazardous materials hazard profile.</p> <p>Updated list of disaster declarations to include 2014-2019 data.</p> <p>Updated NCEI hazard data to include 2014-2019 data.</p> <p>Updated past occurrences for each hazard to include 2014-2019 data.</p> <p>Updated critical facilities identification from the 2014 plan.</p> <p>Updated growth and development trends to include Census 2010, American Community Survey 5-Year Estimates, 2013-2017 and local data sources.</p> <p>Updated historic and cultural resources using Colorado State Historic Preservation Office and other local/state/national sources.</p> <p>Updated property values for vulnerability and exposure analysis.</p> <p>Updated critical facilities and infrastructure data and lists, including alignment with FEMA Lifelines categories.</p> <p>Updated NFIP flood insurance policy data and Repetitive Loss structure data.</p> <p>Incorporated new hazard loss estimates since 2014, as applicable.</p> <p>A Hazus-MH Level I earthquake vulnerability analysis data was updated with Hazus Version 4.2 and incorporated.</p> <p>Updated information regarding specific vulnerabilities to hazards, including maps and tables of specific assets at risk, specific critical facilities at risk, and specific populations at risk; organized information into subsections on General Property, People, Critical Facilities and Infrastructure, Economy, Historic, Cultural, and Natural Resources, and Future Development.</p> <p>Developed a Risk Summary subsection to summarize problem statements and vulnerabilities.</p> <p>Updated maps in the plan where appropriate.</p>
<p>5 CAPABILITY ASSESSMENT 2.1 Planning and Regulatory Capabilities 2.2 Administrative and Technical Capabilities 2.3 Financial Capabilities 2.4 Other Mitigation Partnerships 2.5 Opportunities for Enhancement</p>	<p>From 2014 Comp Plan Appendix B, D – Updated in 2020. Reviewed mitigation capabilities and updated to reflect current capabilities.</p>



Plan Section	Update Review and Analysis
<p>6 MITIGATION STRATEGY</p> <p>6.1 Mitigation Strategy: Overview</p> <p>6.2 Goals and Objectives</p> <p>6.3 Progress on Previous Mitigation Actions</p> <p>6.4 Identification and Analysis of Mitigation Actions</p> <p>6.5 Mitigation Action Plan</p>	<p>Reviewed mitigation capabilities and updated to reflect current capabilities. Indicated what projects have been implemented that may reduce previously identified vulnerabilities.</p> <p>Updated Chapter 6 based on the results of the updated risk assessment, completed mitigation actions, and implementation obstacles and opportunities since the completion of the previous plan.</p> <p>Reviewed goals and objectives to determine if they are still representative of the participants' mitigation strategy and aligned with the 2018 Colorado State Hazard Mitigation Plan goals.</p> <p>Revised the goals and objectives based on HMPC input.</p> <p>Revised to include more information on the Community Rating System (CRS) categories of mitigation measures (structural projects, natural resource protection, emergency services, etc.) and how they are reviewed when considering the options for mitigation.</p> <p>Included more information on how actions are prioritized.</p> <p>Reviewed mitigation actions from the 2014 plan and developed a status report for each; identified if action has been completed, deleted, deferred, or is still ongoing. Identified and detailed new mitigation actions proposed by the HMPC.</p>
<p>7 PLAN IMPLEMENTATION AND MAINTENANCE</p> <p>7.1 Implementation</p> <p>7.2 Plan Maintenance</p> <p>7.3 Integration Into Other Planning Mechanisms</p> <p>7.4 Continued Public Involvement</p>	<p>Reviewed and updated procedures for monitoring, evaluating, and updating the plan. Revised to reflect current methods.</p> <p>Updated the system for monitoring progress of mitigation activities by identifying additional criteria for plan monitoring and maintenance.</p> <p>Expanded guidance on how the HMP can inform other plans and planning mechanisms in Adams County.</p>
<p>Jurisdictional Annexes (NEW)</p>	<p>Annex A — Town of Bennett</p> <p>Annex B — City of Brighton (Previously part of 2016 Weld County HMP)</p> <p>Annex C — City of Commerce City</p> <p>Annex D — Denver Water</p> <p>Annex E — 2016 City of Aurora HMP</p> <p>Annex F — 2017 Thornton, Federal Heights, & Northglenn HMP</p> <p>Annex G — 2018 City of Westminster HMP</p> <p>Annex H — 2016 Jefferson County HMP – City of Arvada Annex</p>
<p>Appendices (NEW)</p>	<p>Appendix A — Updated planning process documentation</p> <p>Appendix B — Updated Hazard Mitigation Planning Committee members</p> <p>Appendix C — 2020 Adoption Resolutions</p> <p>Appendix D — Mitigation Action Worksheets</p> <p>Appendix E — References</p> <p>Appendix F — Glossary</p>



3.3 Local Government Participation

DMA Requirement §201.6(a)(3):

Multi-jurisdictional plans may be accepted, as appropriate, as long as each jurisdiction has participated in the process and has officially adopted the plan.

Adams County invited every incorporated city, town, and special district in the County to participate in the 2020 Multi-Jurisdictional Mitigation Plan update. The Disaster Mitigation Act requires that each jurisdiction participate in the planning process and officially adopt the multi-jurisdictional hazard mitigation plan in order to be eligible for FEMA Hazard Mitigation Assistance grants. The jurisdictions that chose to participate in the planning process and development of the plan or its update were required to meet strict plan participation requirements defined at the beginning of the process, which included the following:

- Designate a representative to serve on the HMPC
- Participate in HMPC meetings
- Complete and return updates on Mitigation Actions since 2014 to Wood
- Identify new mitigation actions for the plan
- Review and comment on plan drafts
- Inform the public, local officials, and other interested parties about the planning process and provide opportunity for them to comment on the plan
- Formally adopt the mitigation plan and re-adopt every 5 years

The City of Brighton, the City of Commerce City, the Town of Bennett, and Denver Water committed to participating in the plan update, and met all of these participation requirements. The City of Brighton had previously participated in the 2016 Weld County Hazard Mitigation Plan, the Town of Bennett had previously participated in the 2015 Arapahoe County Hazard Mitigation Plan, and Commerce City had previously participated in the 2010 Denver Regional Natural Hazard Mitigation Plan. Denver Water also participated in this plan update as a multi-county special district that serves Adams County. In most cases, the representative for each jurisdiction brought together a planning team to help collect data, identify mitigation actions and implementation strategies, and review annex drafts. Appendix B shows the attendance of representatives at each HMPC meeting; sign-in sheets are included in Appendix A Planning Process Documentation.

3.4 The 10-Step Planning Process

Wood and the Adams County Office of Emergency Management worked together to establish the framework and process for this planning effort using FEMA's Local Multi-Hazard Mitigation Planning Guidance (2013). The guidance and this plan are structured around FEMA's original four-phase process:

- 1) Organize resources
- 2) Assess risks
- 3) Develop the mitigation plan
- 4) Implement the plan and monitor progress

Into this four-phase process, Wood integrated a more detailed 9-step process laid out in the 2013 Local Mitigation Planning Handbook, along with the 10-step planning process used for FEMA's Community Rating System (CRS) and Flood Mitigation Assistance programs. Thus, the modified 10-step process used



for this plan meets the funding eligibility requirements of the Hazard Mitigation Assistance grants (including Hazard Mitigation Grant Program, Building Resilient Infrastructure and Communities grant, High Hazard Potential Dams grant, and Flood Mitigation Assistance grant), Community Rating System, and the flood control projects authorized by the U.S. Army Corps of Engineers (USACE). Table 3-2 shows how the modified 10-step process fits into FEMA's four-phase process.

Table 3-2 Mitigation Planning Process Used to Develop the Plan

FEMA's 4-Phase DMA Process	Modified 10-Step CRS Process	FEMA Local Mitigation Planning Handbook Tasks
1) Organize Resources		
201.6(c)(1)	1) Organize the Planning Effort	1: Determine the planning area and resources
201.6(b)(1)	2) Involve the Public	2: Build the planning team - 44 CFR 201.6 (C)(1)
201.6(b)(2) and (3)	3) Coordinate with Other Departments and Agencies	3: Create an outreach strategy - 44 CFR 201.6(b)(1)
		4: Review community capabilities - 44 CFR 201.6 (b)(2)&(3)
2) Assess Risks		
201.6(c)(2)(i)	4) Identify the Hazards	5: Conduct a risk assessment - 44 CFR 201.6 (C)(2)(i) 44 CFR 201.6(C)(2)(ii)&(iii)
201.6(c)(2)(ii)	5) Assess the Risks	
3) Develop the Mitigation Plan		
201.6(c)(3)(i)	6) Set Goals	6: Develop a mitigation strategy - 44 CFR 201.6(c)(3)(i); 44 CFR 201(c)(3)(ii) and 44 CFR 201.6(c)(3)(iii)
201.6(c)(3)(ii)	7) Review Possible Activities	
201.6(c)(3)(iii)	8) Draft an Action Plan	
4) Implement the Plan and Monitor Progress		
201.6(c)(5)	9) Adopt the Plan	7: Review and adopt the plan
201.6(c)(4)	10) Implement, Evaluate, and Revise the Plan	8: Keep the plan current
		9: Create a safe and resilient community - 44 CFR 201.6(c)(4)

3.4.1 Phase 1 Organize the Resources

Step 1: Organize the Planning Effort

This section describes the planning process used during the 2020 update. The original planning process effort is well documented and can be referenced in the 2004 and 2010 DRCOG plans, and the 2014 Comprehensive Plan. The Adams County Emergency Manager took the lead on coordinating and reconvening the HMPC, identifying the key county, municipal, and other local government and initial stakeholder representatives. An email invitation was sent to them with a request to participate as a member of the HMPC and to attend a kickoff meeting. Representatives from the following County and municipal departments and special districts participated on the HMPC and the update of the plan:

Adams County

- Office of Emergency Management
- Community Safety & Well-Being
- Community Development Department
- Public Works Department



- Parks, Open Space & Cultural Arts Department
- Office of the Coroner
- Finance Department
- Assessor's Department
- Communications Department
- Information Technology & Innovation Department
- County Manager's Office
- Facilities & Fleet Management Department

Participating Jurisdictions

- City of Brighton Office of Emergency Management
- City of Commerce City Office of Emergency Management
- Town of Bennett Safety Officer
- Town of Bennett Public Works Department
- Town of Bennett Community Development Department
- Denver Water Office of Emergency Management

The Adams County Office of Emergency Management emailed letters of invitation to each meeting to county, municipal, district, state, and other stakeholder representatives. This list is included in Appendix A. Stakeholder participation was significant during the 2020 update; stakeholders are listed in subsection Step 3: Coordinate with Other Departments and Agencies.

The Disaster Mitigation Act requires that each jurisdiction participate in the planning process and officially adopt the multi-jurisdictional hazard mitigation plan. A planning committee was created that includes representatives from each participating jurisdiction, departments of the County, and other local, state, and federal organizations responsible for making decisions in the plan and agreeing upon the final contents. Kickoff meeting attendees discussed potential participants and made decisions about additional stakeholders to invite to participate on the HMPC.

The HMPC contributed to this planning process by:

- Providing facilities for meetings,
- Attending meetings,
- Collecting data,
- Managing administrative details,
- Making decisions on plan process and content,
- Submitting mitigation action implementation worksheets,
- Reviewing and editing drafts, and
- Coordinating and assisting with public involvement and plan adoptions.

The HMPC communicated during the planning process with a combination of face-to-face meetings, phone interviews, and email correspondence. A folder on the website Box.com was hosted by Wood was used to share drafts of the plan and its annexes for jurisdictional review and input. The HMPC met in person four times during the planning period (October 17, 2019 to February 5, 2020). The meeting schedule and topics are listed in Table 3-3. The sign-in sheets and agendas for each of the meetings are included in Appendix A.



Table 3-3 Schedule of HMPC Meetings

Meeting	Topic	Date
Kickoff Meeting	Introduction to DMA and the planning process. Identification of hazards impacting Adams County	October 17, 2019
HMPC #2	Review of updated risk assessment	December 12, 2019
HMPC #3	Review of goals and objectives. Review of status updates of 2014 mitigation actions. Development of new mitigation actions.	January 14, 2020
HMPC #4	Prioritization of mitigation actions.	February 5, 2020

HMPC Meeting #1 — Kickoff Meeting

The plan update process officially began with a kickoff meeting in Brighton, Colorado, on October 17, 2019. Twenty HMPC members and stakeholders attended. During the kickoff meeting, Wood presented information on the scope and purpose of the plan update, participation requirements of HMPC members, and the proposed project work plan and schedule. Plans for public involvement (Step 2) and coordination with other agencies and departments (Step 3) were discussed. Wood also introduced the hazard identification requirements and data. The HMPC discussed jurisdictional priorities and concluded that there had been no significant changes to priorities that would affect this mitigation plan. The HMPC discussed past events and impacts and future probability for each of the hazards required by FEMA for consideration in a local hazard mitigation plan. The HMPC revised the hazards list from the 2014 plan, adding dam failure/incident as a separate hazard while rolling lightning and hail into the Thunderstorm profile. Three human-caused hazards were also added: cyber threats, hazardous materials incidents, and terrorism/active shooter. Each jurisdiction provided updates on past events since 2014, existing capabilities and ongoing mitigation efforts through a data collection workbook created by Wood or provided information directly to Wood for incorporation into the plan update.

HMPC Meeting #2 — Risk Assessment Update

On December 12, 2019, the HMPC convened in person to review and discuss the results of the risk and vulnerability assessment update. Eighteen members of the HMPC and stakeholders were present for the discussion. Wood presented the results the risk assessment for natural and human-caused hazards. A handout summarizing the hazard significance for each jurisdiction was shared for the HMPC to review. The group went through each hazard together and discussed the results as well as shared any local insight to inform the HIRA update. Refer to the meeting summary in Appendix A for notes related to each hazard discussed. Some of this discussion was also related to the capability assessment update.

HMPC Meeting #3 — Goals and Objectives Development

The HMPC convened on January 14, 2020 with sixteen people in attendance to discuss goals and objectives for this planning process. Wood reviewed the hazard significances discussed at meeting #2. Wood then shared the results of the public survey and reviewed the hazards the public identified as the highest concern. The group was provided a handout that summarized current goals and objectives from the County’s 2014 Comprehensive Plan, other jurisdiction’s HMPs, the State HMP, and other planning documents. The HMPC reviewed the previous plan’s goals to determine if they were still valid, comprehensive, and reflect current priorities and updated risk assessments. Revisions to the goals can be found in Chapter 6 Mitigation Strategy. The meeting ended with a review of the next steps and planning process schedule. The meeting ended with each HMPC member developing a new mitigation action using new mitigation action worksheets distributed by Wood.

Town of Bennett Planning Team Meeting

In addition to the four HMPC meetings, the Town of Bennett held a Planning Team meeting on January 23, 2020. Four of the Bennett Planning Team members were present as well as the Adams County



Emergency Manager and three members of the Wood consulting team. Wood presented the results of the risk assessment specific to the Town of Bennett. The Planning Team then shared the statuses of the Town's previous mitigation actions and discussed possible new mitigation actions.

HMPC Meeting #4 — Mitigation Strategy Workshop

On February 5, 2020 the HMPC convened in person to prioritize the new mitigation actions developed at meeting 3 to include in the updated plan. Sixteen HMPC members and stakeholders attended. The group discussed the criteria for mitigation action selection and prioritization using a worksheet provided by Wood (refer to Appendix A). The group reviewed each possible new mitigation action and additional details were provided by the HMPC. Following the review of potential actions, a sticky dot exercise was used as an initial prioritization on the new mitigation actions, refer to Chapter 6 Mitigation Strategy for more details on the prioritization exercise.

Step 2: Involve the Public

DMA Requirement §201.6(b):

An open public involvement process is essential to the development of an effective plan. In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include: (1) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval.

At the kickoff meeting, the HMPC discussed options for soliciting public input on the mitigation plan and developed an outreach strategy by consensus. An online public survey was developed by Wood and shared with the HMPC to share through their respective channels. Wood worked with a Communication Specialist with the County's Communication Department to include a link to the survey on the County's website and in the County's newsletter. A link to the survey was also posted on some of the participating jurisdiction's websites as well as through social media posts; screenshots from both can be found in Appendix A.

Online Public Survey

As noted above, during the plan update's initial drafting stage, an online public survey was used to gather public input to the HMPC. The survey provided an opportunity for public input during the planning process, prior to finalization of the plan update. The survey gathered public feedback on concerns about hazards and input on mitigation strategies to reduce their impacts. The survey was released on December 3, 2019 and closed on January 14, 2020. The HMPC provided links to the public survey by distributing it using social media, email, and posting the link on websites. Eighty people filled out the survey online. Results showed that the public perceives the most significant hazards to be severe thunderstorms, severe winter weather, cyber threats and tornadoes. Figure 3-1 shows the responses to question 3 of the survey, which solicited the public's opinion on the mitigation actions that should have the highest priority in the updated hazard mitigation plan. Improve reliability of communications systems, indoor/outdoor warning, generators for critical facilities, and public education and awareness were cited as the most popular mitigation actions. This information was shared with the HMPC during the update of the mitigation strategy as a source of potential mitigation ideas and the following mitigation actions were developed by the HMPC after reviewing the survey results. Refer to Chapter 6 Mitigation Strategy and Table 6-2 Adams County 2020 Mitigation Action Plan for additional details on each mitigation action.

- AD-21: Provide zoning and future land use guidance to map vulnerable populations. Create a toolkit to assist and educate owners/developers on development concerns and ways to mitigate in particular areas.

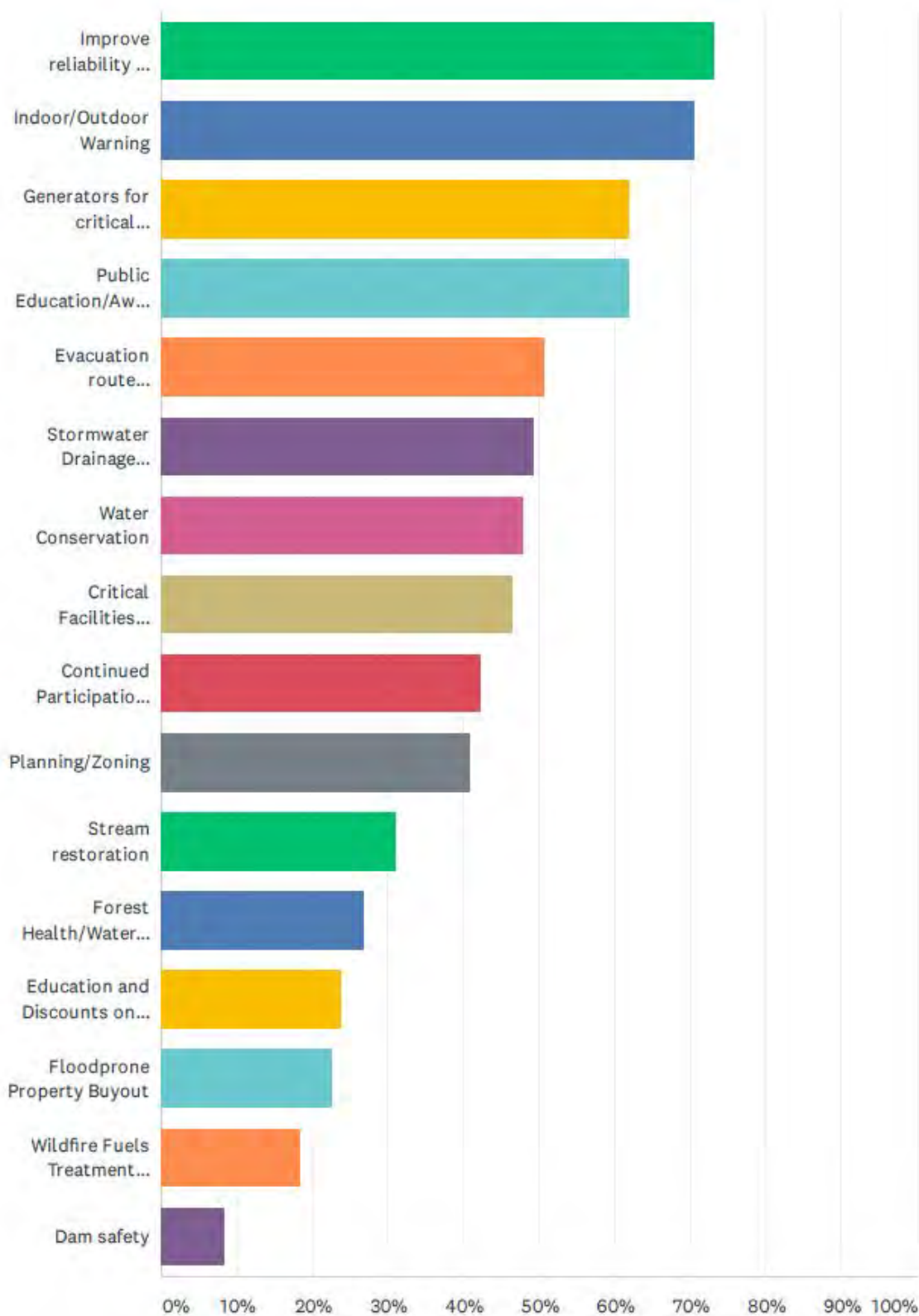


- AD-22: Dam Safety Alerting System.
- TOB-1: Develop hazard mitigation brochure.
- COB-3: Public/Emergency Shelter Generator for Eagle View Adult Center. Eagle View Adult Center is the main shelter location for the city.

A summary of all the survey data and documentation of the public feedback can be found in Appendix A.



Figure 3-1 Sample of Public Survey Responses



Source: Wood online survey: "Please indicate the types of mitigation actions that you think should have the highest priority in the Adams County Hazard Mitigation Plan."



Local Emergency Planning Committee (LEPC) Meeting

The Adams County Local Emergency Planning Committee (LEPC) holds monthly meetings that are open to the public. Wood attended the LEPC meeting on January 27, 2020 to give an overview of the planning process, review the risk assessment results, and discuss the updated goals and objectives, along with the results from the public survey. LEPC members discussed the risk and vulnerability assessment rankings, particularly the hazardous materials section. The LEPC was invited to comment on the draft plan, and their comments were incorporated into the plan.

Public Review Period

The public was also given an opportunity to provide input on a draft of the complete plan prior to its submittal to the State and FEMA. Adams County provided the plan draft for review and comment on the County website from June 2 to July 10, 2020. (Due to the ongoing Covid-19 pandemic at that time, hard copy plans were not made available for comment.) The jurisdictions announced the availability of the draft plan and the public comment period through social and traditional media announcements. Copies of these notices is provided in Appendix A. An online form to collect comments was posted with the plan. Two members of the public indicated that they reviewed the draft plan but neither provided comments on the online form.

Step 3: Coordinate with Other Departments

DMA Requirement §201.6(b):

An open public involvement process is essential to the development of an effective plan. In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include: (2) An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process. (3) Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.

There are numerous organizations whose goals and interests' interface with hazard mitigation in Adams County. Coordination with these organizations and other community planning efforts is vital to the success of this plan update. The Adams County Office of Emergency Management invited other local, state, and federal agencies to the kickoff meeting to learn about and participate in the hazard mitigation planning initiative. Many of the agencies participated throughout the planning process in meetings described in Step 1: Organize the Planning Effort. In addition, the HMPC developed a list of neighboring communities and local and regional agencies involved in hazard mitigation activities, as well as other interested parties to keep informed on the plan update process.

Stakeholders included local and regional agencies involved in hazard mitigation activities or those beyond the County and local government that have the authority to regulate development. Stakeholders could participate in various ways, either by contributing input at HMPC meetings, being aware of planning activities through an email group, providing information to support the effort, or reviewing and commenting on the draft plan. Representatives from the following agencies and organizations were invited to participate as stakeholders in the process; an asterisk indicates they attended HMPC meetings.



Other Government and Stakeholder Representatives

- Colorado Division of Homeland Security and Emergency Management (DHSEM)*
- FEMA*
- City of Thornton Long Range Planning*
- Southeast Weld Fire Protection District
- Adams/Jefferson County Hazmat*
- City of Westminster Office of Emergency Management*
- North Metro Fire
- Mile High Flood District*
- Tri-County Health Department*
- Northglenn Police Department*
- Adams County Fire Protection District*
- Brighton Fire
- City of Aurora Office of Emergency Management
- Suncor Energy - Fire

Many of these groups found it beneficial to participate on the committee. As part of the HMPC and public outreach processes, stakeholders were invited to review and comment on the plan prior to submittal to Colorado DHSEM and FEMA.

As part of the public review and comment period for the draft plan, key agencies were again specifically solicited as well as the neighboring jurisdictions of Arapahoe, Weld and Denver counties and the incorporated jurisdictions not participating in this HMP update, to provide any final input to the draft plan document. This input was solicited by direct emails to key groups and associations to review and comment on the plan. As part of this targeted outreach, these key stakeholders were also specifically invited to attend the HMPC to discuss any outstanding issues and to provide input on the draft document and final mitigation strategies. This met the requirements of planning steps 2 and 3 in the FEMA Local Mitigation Planning Handbook.

Incorporation of Existing Plans and Other Information

Coordination and synchronization with other community planning mechanisms and efforts are vital to the success of hazard mitigation planning. Existing plans, policies, regulations, codes, tools, and other actions designed to reduce a community's risk and vulnerability from natural hazards should be identified and reviewed to have a thorough evaluation of hazard mitigation practices already in place. Adams County uses a variety of mechanisms to guide growth and development. Integrating existing planning efforts, mitigation policies, and action strategies into this plan establishes a credible, holistic document that weaves the common threads of a community's values together.

The County's 2014 HMP was fully integrated into the 2014 Adams County Comprehensive Plan. It was noted at the kickoff meeting that it was important to the HMPC to continue this integration in future updates of both plans. While the HMP is being updated separately from the Comprehensive Plan in order for the HMP to meet 5-year update cycle requirements, the risk information from the 2020 HMP will be incorporated during the next Comprehensive Plan Update; the planning process is expected to begin by end of 2020. The development and update of this plan involved a comprehensive review of existing plans, studies, reports, and initiatives from Adams County and participating municipalities related to hazards or hazard mitigation. A high-level summary of the key plans, studies and reports is summarized in the table below, with notes on how they informed the update.



Table 3-4 Summary of Review of Key Plans, Studies and Reports

Plan, Study, Report Name	How Plan informed LHMP
Adams County Comprehensive Plan (2014) and Appendix C: Hazard Identification and Risk Assessment	Provided background information on the county including some information related to jurisdictions. Informed the Community Profile in Chapter 2 and Chapter 4 Risk Assessment.
Adams County Transportation Plan (2012)	Informed Chapter 2 Community Profile
Arapahoe County Hazard Mitigation Plan (2015)	Provided information on past events and vulnerabilities specific to the Town of Bennett.
City of Aurora Hazard Mitigation Plan (2016)	Informed the risk and vulnerability assessment in Chapter 4.
Thornton, Federal Heights, and Northglenn Natural Hazard Mitigation Plan (2017)	Informed the risk and vulnerability assessment in Chapter 4.
Colorado State Hazard Mitigation Plan (2018)	Informed the HIRA (Chapter 4) with risk information specific to Adams County and hazard profile information for each of the hazards.
Town of Bennett Comprehensive Plan (2015)	Provided background information on the Town of Bennett, including potential areas for future development.
Adams County Flood Insurance Study (2018)	Reviewed for information on past floods and flood problems to inform risk assessment (Chapter 4) Utilized Digital Flood Insurance Rate Maps effective September 2018 to update maps and flood risk assessment in Chapter 4.
Town of Bennett Draft CAIMP Master Plan (2015)	Informed the flood risk analysis for the Town of Bennett and was used in the discussion on developing new mitigation actions for the Town.
Weld County Hazard Mitigation Plan (2016)	Provided information on past events and vulnerabilities specific to the City of Brighton.
Sustainable Adams County 2030 Plan (2015)	Informed the Capability Assessment (Chapter 5) and was referenced during the goals and objectives development workshop.
City of Westminster Hazard Mitigation Plan (2018)	Informed the risk assessment (Chapter 4).
Adams County Community Report (2019)	Informed the Community Profile (Chapter 2)
Middle South Platte-Cherry Creek Hydrologic Unit Code 10190003 Rapid Assessment (2009)	Informed the flood profile and risk assessment in Chapter 4.
Colorado State Drought Response and Mitigation Plan (2018)	Informed the drought hazard profile and vulnerability assessment in Chapter 3 risk assessment.
Colorado Water Conservation Board – Colorado Water Availability Study (2018)	Informed the drought hazard vulnerability assessment in Chapter 4 risk assessment.
Adams County Land Use and Development Code. Chapter 3 Zone District Regulations	Informed the County’s capabilities assessment and provided information for the parcel analysis.

Other technical data, reports and studies were reviewed and considered, as appropriate, during the collection of data to support Planning Steps 4 and 5, which include the hazard identification, vulnerability assessment, and capability assessment. Information from the following agencies and groups were reviewed in the development and update of this plan. Specific references relied on in the development of



this plan are also sourced throughout the document as appropriate. These sources are documented throughout the plan and specifically in the capability assessment sections of each jurisdictional annex.

- Colorado Department of Public Health and Environment (CDPHE)
- Colorado Department of Transportation (CDOT)
- Colorado Division of Water Resources – Dam Safety
- Colorado Earthquake Information Database
- Colorado Geological Survey
- Colorado State Demography Office
- Colorado Wildfire Risk Assessment Portal (CO-WRAP)
- Federal Wildland Fire Occurrence Database
- FEMA Community Information System
- Headwaters Economics
- National Drought Mitigation Center – Drought Impact Reporter
- National Fire Protection Association (NFPA)
- National Interagency Fire Center (NIFC)
- National Oceanic and Atmospheric Administration’s (NOAA) National Center for Environmental Information (NCEI)
- National Register of Historic Places
- National Weather Service (NWS)
- U.S. Army Corp of Engineers’(USACE) National Inventory of Dams (NID)
- U.S. Census Bureau
- U.S. Center for Disease Control and Prevention (CDC)
- U.S. Coast Guard’s National Response Center (NRC)
- U.S. Department of Agriculture (USDA) – Farm Service Agency (FSA)
- U.S. Department of Transportation (DOT)
- U.S. Drought Monitor
- U.S. Environmental Protection Agency (EPA)
- U.S. Geological Survey
- Western Regional Climate Center

3.4.2 Phase 2 Assess Risk

Step 4: Identify the Hazards

Wood led the HMPC in an effort to review the list of hazards identified in the 2014 plan and document all the hazards that have impacted or could impact the planning area, including documenting recent events. The HMPC refined the list of hazards to make it more relevant to Adams County. The profile of each of these hazards was then developed and updated in 2020 with information from the HMPC and additional sources. Web resources, existing reports and plans, and existing GIS layers were used to compile information about past hazard events and determine the location, previous occurrences, probability of future occurrences, and magnitude/severity of each hazard. Information on the methodology and resources used to identify and profile hazards is provided in Chapter 4.

Step 5: Assess the Risks

After profiling the hazards that could affect Adams County, the HMPC collected information to describe the likely impacts of future hazard events on the participating jurisdictions. This step included two parts: a vulnerability assessment and a capability assessment.



Vulnerability Assessment—Participating jurisdictions inventoried their assets at risk to natural and human-caused hazards—overall and in the identified hazard areas. These assets included total number and value of structures; critical facilities and infrastructure; natural, historic, and cultural assets; and economic assets. The HMPC also analyzed development trends in hazard areas. The County’s DFIRM was used to refine the estimated flood losses during the update, where available for the NFIP participating communities.

Capability Assessment—This assessment consisted of identifying the existing mitigation capabilities of participating jurisdictions. This involved collecting information about existing government programs, policies, regulations, ordinances, and plans that mitigate or could be used to mitigate risk to disasters. Participating jurisdictions collected information on their regulatory, administrative, fiscal, and technical capabilities, as well as ongoing initiatives related to interagency coordination and public outreach. This information is included in the jurisdictional annexes. Refer to Chapter 5 Capabilities Assessment for the results of the existing capabilities as well as the jurisdictions identified opportunities for enhancing capabilities.

A more detailed description of the risk assessment process and the results are included in Chapter 4 Risk Assessment.

3.4.3 Phase 3 Develop the Mitigation Plan

Step 6: Set Goals

Wood facilitated a brainstorming and discussion session with the HMPC during their third meeting to identify goals and objectives for the overall multi-jurisdictional mitigation plan update. The HMPC discussed definitions and examples of goals, objectives, and actions; and considered the goals of the State Hazard Mitigation Plan and other relevant plans when forming their own goals and objectives. The 2014 HMP was fully integrated into the County’s Comprehensive Plan, and while the Comprehensive Plan’s goals addressed hazard mitigation, for the 2020 update the HMPC decided that a separate set of mitigation goals and objectives should be developed in alignment with the Comprehensive Plan goals but more focused on reducing losses from hazards. The group discussed the ideas and came to consensus on the final goals and objectives for the multi-jurisdictional plan update, which are further discussed in Chapter 6.

Step 7: Review Possible Activities

The HMPC identified mitigation actions at their third meeting and prioritized them at their fourth meeting. The group was presented with six different categories of mitigation actions and example actions for each identified hazard. The HMPC then participated in a brainstorming process, in which committee members identified actions to address each of the plan’s four goals. The HMPC then reviewed potential mitigation alternatives and identified new actions by hazard and jurisdiction to ensure that all the plan’s high- and medium-significance hazards were addressed, and that all participating jurisdictions had at least one new mitigation action.

The HMPC discussed criteria for narrowing down and prioritizing the identified actions. The group approved the STAPLEE criteria, which assesses the Social, Technical, Administrative, Political, Legal, Economic, and Environmental implications of each action. Each member used these criteria to vote for their highest priority projects. Projects were then sorted into high, medium, or low priority based upon the number of votes they received. This process is described in more detail in Chapter 6 Mitigation Strategy.

The HMPC also identified the responsible agency for implementing each action. The identified agencies then completed a mitigation action implementation worksheet for each action. The purpose of these



worksheets is to document background information, ideas for implementation, alternatives, responsible agency, partners, potential funding, cost estimates, benefits, and timeline for each identified action.

Each HMPC member from the participating jurisdictions was responsible for completing a mitigation action implementation worksheet for actions specific to their jurisdiction. The jurisdictional worksheets include details on what will be needed to implement the mitigation action on the jurisdictional level. The jurisdictions were also responsible for working with their local staff to submit additional mitigation actions unique to their jurisdiction. Each jurisdiction provided input on the progress made on actions identified in the 2014 plan, or in the case of Bennett and Brighton updates to their actions from the Arapahoe County and Weld County plans.

Step 8: Draft the Plan

The first complete draft of the plan update, including annexes for each of the participating jurisdictions, were developed and submitted to the HMPC for review in March 2020. Once the committee's comments were incorporated, a complete draft of the plan was made available online and in hard copy for review and comment by the public and other agencies and interested stakeholders, as discussed above under Step 2 Involve the Public. This review period was from June 2 – July 10, 2020. Methods for inviting interested parties and the public to review and comment on the plan were discussed in Steps 2 and 3, and materials are provided in Appendix A.

3.4.4 Phase 4 Implement the Plan and Monitor Progress

Step 9: Adopt the Plan

To secure buy-in and officially implement the plan, the governing bodies of each participating jurisdiction adopted the plan and their jurisdictional annex. Scanned copies of resolutions of adoption are included in Appendix C Local Plan Adoptions.

Step 10: Implement, Evaluate, and Revise the Plan

The true worth of any mitigation plan is in the effectiveness of its implementation. Up to this point in the plan update process, all of the HMPC's efforts have been directed at researching data, coordinating input from participating entities, and updating and developing appropriate mitigation actions. Each recommended action includes key descriptors, such as hazard(s) addressed, lead manager and priority, to help initiate implementation. An overall implementation strategy is described in Chapter 7 Plan Implementation and Monitoring, which also addresses how the previous plan was implemented and evaluated.

Finally, there are numerous organizations within Adams County planning area whose goals and interests' interface with hazard mitigation. Coordination with these other planning efforts, as addressed in Planning Step 3, is paramount to the ongoing success of this plan and of mitigation in Adams County and is addressed further in Chapter 7. A plan update and maintenance schedule and a strategy for continued public involvement are also included in Chapter 7.



4 Risk Assessment

DMA Requirement §201.6(c)(2):

[The plan shall include] A risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.

Risk, for the purposes of this plan and as defined by FEMA, is a combination of hazard, vulnerability, and exposure. It is the impact that a hazard would have on people, services, facilities, and structures in a community, and refers to the likelihood of a hazard event resulting in an adverse condition that causes injury or damage.

The risk assessment process identifies and profiles relevant hazards and assesses the exposure of lives, property, and infrastructure to these hazards. The process allows for a better understanding of a jurisdiction's potential risk to hazards and provides a framework for developing and prioritizing mitigation actions to reduce risk from future hazard events.

This risk assessment builds upon the methodology described in the 2013 FEMA Local Mitigation Planning Handbook, which recommends a four-step process for conducting a risk assessment:

1. Describe Hazards
2. Identify Community Assets
3. Analyze Risks
4. Summarize Vulnerability

In essence, the risk assessment evaluates potential loss from hazards by assessing the vulnerability of the county's population, build environment, critical facilities, and other assets. Data collected through this process has been incorporated into the following sections of this section:

Subsection 4.1: Hazard Identification - identifies the hazards that threaten the Planning Area and describes why some hazards have been omitted from further consideration.

Subsection 4.2: Asset Summary - describes the methodology for inventorying assets as the basis for determining vulnerability of the planning area to the identified hazards.

Subsection 4.3: Hazard Analysis and Risk Assessment - discusses the threat to the Planning Area and describes previous occurrences of hazard events and the likelihood of future occurrences. It also includes a vulnerability assessment considering property, critical facilities, and historic/cultural/natural assets at risk, as well as possible effects to the economy and future development trends.

This risk assessment covers the entire geographical area of Adams County. Since this plan is a multi-jurisdictional plan, the HMPC also evaluated how the hazards and risks vary from jurisdiction to jurisdiction. While these differences are noted in this section, they are expanded upon in the annexes of the participating jurisdictions. If no additional data is provided in an annex, it should be assumed that the risk and potential impacts to the affected jurisdiction are similar to those described here for the entire Adams County planning area.

4.1 Hazard Identification

DMA Requirement §201.6(c)(2)(i):

[The risk assessment shall include a] description of the type of all-natural hazards that can affect the jurisdiction.

The first step in developing a risk assessment is identifying the hazards. The Adams County HMPC conducted a hazard identification study to determine the hazards that threaten the planning area.

4.1.1 Methodology and Results

Colorado's Front Range region is susceptible to a number of hazards. This HMP profiles the most significant of these hazards. Historical data, catastrophic potential, relevance to the jurisdiction, and the probability and potential magnitude of future occurrences were all used to reduce and prioritize the list of hazards to those most relevant to Adams County. Hazards data was obtained from various federal, state, and local sources such as FEMA, the Colorado Geological Survey (CGS), the National Oceanic and Atmospheric Administration (NOAA) National Center for Environmental Information (NCEI), the United States Geological Survey (USGS), and others. Local and national news reports were also used to research historic events. Together, these sources were examined to assess the significance of these hazards to the County. The hazards selected for inclusion in this plan include those that have occurred historically or have the potential to cause significant human and/or monetary losses in the future.

The update process included a comprehensive, parcel-level risk analysis with GIS where available data permitted. Many new maps and tables were added that capture the potential losses. Additional details on the loss analysis at the jurisdictional level, including a breakdown of hazard losses by community and property type, can be referenced in Appendix E and the jurisdictional annexes.

The following table explains changes in the hazards profiled in 2014 compared to the 2020 update. The major change was the inclusion of human caused hazards in the 2020 Plan.

Table 4-1 2019-2020 Updates to Hazards Profiled

2020 Hazards	When Identified	Comments
Natural Hazards		
Drought	In 2014 HIRA	
Earthquake	In 2014 HIRA	
Flood	In 2014 HIRA	
Severe Winter Weather	In 2014 HIRA	
Subsidence	In 2014 HIRA	
Thunderstorms	In 2014 HIRA	Lightning & hail were profiled separately in 2014 HIRA
Tornado/Damaging Wind	In 2014 HIRA (tornado)	Damaging wind added to hazard profile
Wildfire	In 2014 HIRA	
Human-Caused Hazards		
Cyber Incident	New in 2020	
Dam Failure/Incident	New in 2020	
Hazardous Materials	New in 2020	
Terrorism/Active Shooter	New in 2020	



While not profiled as a separate hazard, the potential impacts of climate change were incorporated into all hazard profiles.

The HMPC also reviewed the list of hazards profiled in the 2018 Colorado State Hazard Mitigation Plan. Several of those hazards were deemed to not be a significant risk in Adams County. For other hazards, the risk in Adams County does not differ significantly from the State as a whole. The HMPC decided not to include the following hazards in the Adams County Hazard Mitigation Plan:

- Animal Disease Outbreak
- Avalanche
- Critical Infrastructure Disruption/Failure (addressed under Terrorism hazard)
- Chemical, Biological, Radiological, and Nuclear Attacks (addressed under Terrorism hazard)
- Dense Fog
- Erosion and Deposition
- Expansive Soils and Heaving Bedrock
- Explosive Attack (addressed under Terrorism hazard)
- Landslide/Mud/Debris Flows/Rock Fall/Rockslide
- Mine Accident
- Pandemic/Epidemiology
- Pest Infestation
- Power Failure
- Radiological Release (addressed under Terrorism hazard)
- Radon/Carbon Monoxide/Methane/Other Seeps
- Telecommunications Failure
- Wildlife Vehicle Collisions

The HMPC discussed adding pandemic and related biological hazards, but concluded that profiling them in this plan would be redundant with existing pandemic plans maintained by the County and by Tri-County Health Care.

The HMPC also discussed adding airplane crash as an additional hazard, due to the County's proximity to DIA as well as the Colorado Air and Space Port. However, the HMPC decided to treat airplane crashes as a component of hazardous materials incidents rather than profiling it separately.

Overall Hazard Significance Summary

Table 4-2 shows overall hazard significance, based on a combination of geographic area, probability of future occurrence and potential magnitude/severity as defined below. The individual ratings are based on or interpolated from the analysis of the hazards in the sections that follow. During the 2019-2020 Plan update process, the individual ratings and significance of the hazards was revisited and updated. Public concern was also considered via input at public meetings and an online survey.

Table 4-2 Adams County Hazard Significance

Hazard	Geographic Location	Probability of Future Occurrence	Magnitude/Severity (Extent)	Overall Significance
Thunderstorms	Extensive	Highly Likely	Limited	High
Tornado/Damaging Wind	Extensive	Highly Likely	Limited	High
Winter Weather	Extensive	Highly Likely	Limited	High
Flood	Limited	Likely	Critical	Medium



Hazard	Geographic Location	Probability of Future Occurrence	Magnitude/Severity (Extent)	Overall Significance
Dam Failure/Incident	Limited	Unlikely	Critical	Medium
Drought	Extensive	Likely	Negligible	Medium
Hazardous Materials Incident	Limited	Likely	Limited	Medium
Earthquake	Limited	Occasional	Limited	Low
Subsidence	Limited	Occasional	Limited	Low
Wildfire	Limited	Likely	Negligible	Low
Terrorism/Active Shooter	Limited	Occasional	Limited	Low
Cyber Incident	Limited	Likely	Limited	Low
Geographic Location Limited: Less than 10% of planning area Significant: 10-50% of planning area Extensive: 50-100% of planning area Probability of Future Occurrences Highly Likely: Near 100% chance of occurrence in next year or happens every year. Likely: Between 10 and 100% chance of occurrence in next year or has a recurrence interval of 10 years or less. Occasional: Between 1 and 10% chance of occurrence in the next year or has a recurrence interval of 11 to 100 years. Unlikely: Less than 1% chance of occurrence in next 100 years or has a recurrence interval of greater than every 100 years.		Magnitude/Severity (Extent) Catastrophic—More than 50% of property severely damaged; shutdown of facilities for more than 30 days; and/or multiple deaths Critical—25-50% of property severely damaged; shutdown of facilities for at least two weeks; and/or injuries and/or illnesses result in permanent disability Limited—10-25% of property severely damaged; shutdown of facilities for more than a week; and/or injuries/illnesses treatable do not result in permanent disability Negligible—Less than 10% of property severely damaged, shutdown of facilities and services for less than 24 hours; and/or injuries/illnesses treatable with first aid Significance Low: minimal potential impact Medium: moderate potential impact High: widespread potential impact		

4.1.2 Disaster Declaration History

One method used to identify hazards was to examine events that triggered federal and/or state disaster declarations. Federal and/or state declarations may be granted when the severity and magnitude of an event surpasses the ability of the local government to respond and recover. Disaster assistance is supplemental and sequential. When the local government's capacity has been surpassed, a state disaster declaration may be issued, allowing for the provision of state assistance. Should the disaster be so severe that both the local and state governments' capacities are exceeded; a federal emergency or disaster declaration may be issued allowing for the provision of federal assistance.

The federal government may issue a disaster declaration through FEMA, the USDA, and/or the Small Business Administration (SBA). FEMA also issues emergency declarations, which are more limited in scope and without the long-term federal recovery programs of major disaster declarations. The quantity and types of damage are the determining factors.

A USDA disaster declaration certifies that the affected county has suffered at least a 30% loss in one or more crop or livestock areas and provides affected producers with access to low-interest loans and other programs to help mitigate the impact of the disaster. In accordance with the Consolidated Farm and Rural Development Act, all counties neighboring those receiving disaster declarations are named as contiguous disaster counties and, as such, are eligible for the same assistance. Table 4-3 lists state and federal disaster declarations received by Adams County. Many of the disaster events were regional or statewide; therefore, reported costs are not accurate reflections of losses to Adams County.



Table 4-3 Disaster Declaration History in Adams County, 1953-Present

Year	Hazard	Declaration Type	Disaster No.
2020	Covid-19 Pandemic	President Disaster	DR-4498
2020	Covid-19 Pandemic	Emergency Declaration	EM-3436
2019	Flooding (declaration amendment/extension)	State Declaration	D 2019-001
2018	Hail, high winds, rain, and tornadoes	USDA Disaster	S4404
2018	Cybersecurity	State Declaration	D 2018-001
2017	Wildfire	State Declaration	D 2017-017
2017	Drought	USDA Disaster	S4145
2016	Blizzard	State Declaration	
2016	Flooding (declaration amendment/extension)	State Declaration	D 2016-005
2015	Severe storms, tornadoes, flooding, landslides, and mudslides	Presidential Disaster	DR-4229
2015	Severe Weather, Flooding, Landslides (amendment/extension)	State Declaration	D 2015-006
2015	Severe Weather, Flooding, Landslides (amendment/extension)	State Declaration	D 2015-008
2014	Extreme weather	State Declaration	
2014	Flooding (declaration amendment/extension)	State Declaration	D 2014-001
2014	Flooding (declaration amendment/extension)	State Declaration	D 2014-002
2014	Flooding (declaration amendment/extension)	State Declaration	D 2014-006
2014	Flooding (declaration amendment/extension)	State Declaration	D 2014-012
2013	Flooding	Presidential Emergency Presidential Disaster	EM-3365 DR-4145
2013	Drought	USDA Disaster	S3548
2013	Drought	USDA Disaster	S3456
2013	Winter storm	State Declaration	
2012	Hail, high winds, and flash flooding	USDA Disaster	S3347
2012	Drought, excessive heat, high winds	USDA Disaster	S3260
2009	Severe blizzard	State Declaration	
2009	Severe sprint snowstorm	State Declaration	
2006	Drought, fire, heat and high winds	USDA Disaster	
2006	Snow	Presidential Emergency	EM-3270
2003	Snow	Presidential Emergency	EM-3185
2003	Snow emergency	State Declaration	
2002	Wildfires	Presidential Disaster	DR-1421
2002	Wildfires	State Declaration	
2002	Drought	USDA Disaster	
2002	Drought	State Declaration	
2001	Severe winter storms	State Declaration	
2000	Drought	USDA Disaster	
1982	Severe winter storm	State Declaration	
1982	Dam safety	State Declaration	
1981	Tornadoes	State Declaration	
1973	Dam failure	Presidential Disaster	DR-385
1969	Heavy rains, snowmelt and flooding	Presidential Disaster	DR-261
1965	Tornadoes, severe storms & flooding	Presidential Disaster	DR-200

Source: State of Colorado Hazard Mitigation Plan 2018; fema.gov; usda.gov; Colorado Governor Executive Orders 2014-2019

Out of 32 declared disasters, ten have been for severe winter storms, blizzards, or snow; this includes three Presidential declarations. There have been eight declarations for drought, all but one of which was a USDA declaration. Seven disasters have been declared for severe weather (non-winter), including flooding, tornadoes, hail, and high winds. The most damaging disaster in Colorado's history was the severe flooding in 2013 (EM-336 & DR-4145), which led to over \$26M in Public Assistance funds.



4.1.3 Climate Change Considerations Summary

Addressing the potential for climate change to affect the frequency, intensity, or even location of hazards in the future is new to this hazard mitigation plan update round. This complies with recent FEMA regulations which require consideration and integration of climate change planning and actions into ongoing and future programs, policies, and operations.

4.1.4 Overview of Hazard Identification and Risk Assessment

The hazards identified in Section 4.1 Hazard Identification are profiled individually in this section. The section will conclude by summarizing the probability of future occurrence and potential magnitude of each hazard for each jurisdiction, as well as assigning an overall vulnerability, or planning significance, rating of high, moderate, or low for each hazard.

The sources used to collect information for these profiles include the following:

- Disaster declaration history from FEMA, the State of Colorado's Governor Executive Orders, and the USDA Farm Service Agency
- State of Colorado Hazard Mitigation Plan (2018)
- Adams County Comprehensive Plan (2012)
- Internet resources on past hazard events, such as the National Oceanic and Atmospheric Administration's National Centers for Environmental Information (NCEI) databases, the National Drought Mitigation Center's Drought Impact Reporter, the National Response Center, and the Global Terrorism Database.
- Geographic information systems (GIS) data from the Adams County GIS Department
- Statewide GIS datasets compiled by state and federal agencies (e.g. The Homeland Infrastructure Foundation-Level Data, or HIFLD dataset for critical facilities and infrastructure)
- Other existing plans and reports
- Personal interviews with HMPC members and other stakeholders
- Adams County Data Collection Guides completed by each participating jurisdiction
- City of Aurora Hazard Mitigation Plan (2016)
- Thornton, Federal Heights, & Northglenn Hazard Mitigation Plan (2017)
- City of Westminster Hazard Mitigation Plan (2018)
- Jefferson County Hazard Mitigation Plan (2016)
- Weld County Hazard Mitigation Plan (2016)

Detailed profiles for each of the identified hazards include information on the following characteristics of the hazard:

Hazard Description

This section consists of a general description of the hazard and the general impacts it may have on a community.

Geographic Location

This section describes the geographic coverage, or location, of the hazard in the planning area and assesses the affected areas as isolated, small, medium, or large.

- Large: More than 50% of the planning area affected
- Medium: 25-50% of the planning area affected
- Small: 10-25% of the planning area affected
- Isolated: Less than 10% of the planning area affected



Previous Occurrences

This section includes information on historic incidents, including impacts and costs, if known. A historic incident worksheet was used to capture information from participating jurisdictions on past occurrences. Information from the HMPC was combined with other data sources, including those previously mentioned.

Probability of Future Occurrence

The frequency of past events is used to gauge the likelihood of future occurrences. Based on historical data, the Probability of Future Occurrence is categorized as follows:

- Highly Likely: Near 100% chance of occurrence next year or happens every year
- Likely: 10-100% chance of occurrence in next year or has a recurrence interval of 10 years or less
- Occasional: 1-10% chance of occurrence in the next year or has a recurrence interval of 11 to 100 years
- Unlikely: Less than 1% chance of occurrence in next 100 years or has a recurrence interval of greater than every 100 years

The probability, or chance of occurrence, was calculated where possible based on existing data. Probability was determined by dividing the number of events observed by the number of years and multiplying by 100. This gives the percent chance of the event happening in any given year. An example would be three droughts occurring over a 30-year period, which suggests a 10% chance of a drought occurring in any given year.

Magnitude/Severity

This section summarizes the magnitude/severity or extent of a hazard event in terms of deaths, injuries, property damage, and interruption of essential facilities and services. Magnitude and severity are classified in the following manner:

- Catastrophic: Multiple deaths; property destroyed and severely damaged; and/or interruption of essential facilities and service for more than 72 hours
- Critical: Isolated deaths and/or multiple injuries and illnesses; major or long-term property damage that threatens structural stability; and/or interruption of essential facilities and services for 24-72 hours
- Limited: Minor injuries and illnesses; minimal property damage that does not threaten structural stability; and/or interruption of essential facilities and services for less than 24 hours
- Negligible: No or few injuries or illnesses; minor quality of life loss; little or no property damage; and/or brief interruption of essential facilities and services

Climate Change Considerations

As summarized in Section 4.1.3 above, this sub-section will discuss the known or potential impacts of climate change on the specific hazard.

Vulnerability Assessment

The vulnerability assessment further defines and quantifies populations, buildings, critical facilities and infrastructure, natural/cultural resources, and other community assets at risk to the profiled hazards, as well as the potential impacts to the economy and future development trends of the planning area. The vulnerability assessment includes these sub-sections per applicable hazard:

- People (including vulnerable populations)
- General Property



- Critical Facilities and Infrastructure
- Economy
- Historic, Cultural, and Natural Resources
- Future Development
- Risk Summary

The data and other assets inventory used in the vulnerability assessment for each hazard is described in more detail in the following Section 4.2 Asset Summary.

4.2 Asset Summary

4.2.1 People

For hazards with a geospatial component and for which data was available for GIS-based parcel analysis, population estimates were calculated. These were based on multiplying the average persons per household for Adams County as of 2018, times the number of properties of Residential nature in each of the vulnerability analyses which found parcels at risk of the various hazards. Hence, if 'X' number of properties of Residential nature were found to overlap with a hazard layer, the total population exposed to that hazard would be obtained by taking 'X' times 3.0, then adding the results by jurisdiction, parcel type, and/or hazard classification. This average number of persons per household value was obtained from the Colorado Counties and Municipalities Population and Household Estimates summary, published by the Colorado Demographer's Office (under the Department of Local Affairs). For more details on Economic Assets, development trends, and other population and demographic information refer to Section 2 Community Profile.

4.2.2 General Property

General property exposure to hazards is based on Adams County's parcel data containing assessor information such as total number of parcels, improvement values, and parcel type classification by jurisdiction. Note that only those parcels with improvement values greater than \$0, or those which were classified as "exempt" or "state assessed" were accounted here; non-developed or non-improved parcels were excluded for the purposes of conducting the vulnerability assessments under Section 4.3. Vacant parcels, due to their improvement values equaling \$0, were also excluded from the exposure valuation analysis.

Counts and values are based on the latest county assessor's data (as of January 15, 2020), which was provided in GIS and tabular (spreadsheet) formats. Improvement values and parcel type attributes were joined to the parcel geometries in GIS, to enable spatial analysis and mapping. Content values were estimated as a percent of the improvement value based on parcel type, specifically: 50% of the improvement value for residential structures, 150% for industrial parcels, 100% for agricultural, commercial, and state assessed parcels (though state assessed parcels did not include improvement value information), and 50% for exempt parcels. These percentage calculations are based on standard FEMA Hazus methodologies. Finally, Total Values were aggregated by adding the improvement and content values for each jurisdiction. Table 4-4 shows the total number of improved parcels, properties, and their improvement and content values by jurisdiction.



Table 4-4 Improved Parcel Exposure Values by Jurisdiction

Jurisdiction	Improved Parcels	Improved Values	Content Values	Total Values
Arvada	1,206	\$38,743,010	\$28,899,895	\$67,642,905
Aurora	10,477	\$1,092,469,780	\$939,805,810	\$2,032,275,590
Bennett	851	\$23,730,980	\$15,409,080	\$39,140,060
Brighton	11,158	\$466,980,810	\$306,035,065	\$773,015,875
Commerce City	17,958	\$653,291,400	\$467,969,010	\$1,121,260,410
Federal Heights	1,343	\$69,862,170	\$48,793,010	\$118,655,180
Lochbuie	2	\$30,490	\$15,245	\$45,735
Northglenn	10,311	\$362,846,830	\$224,978,315	\$587,825,145
Thornton	39,028	\$1,286,306,890	\$770,662,310	\$2,056,969,200
Westminster	20,883	\$975,014,030	\$626,372,510	\$1,601,386,540
Unincorporated	30,016	\$1,211,031,220	\$799,609,300	\$2,010,640,520
TOTAL	143,233	\$6,180,307,610	\$4,228,549,550	\$10,408,857,160

Source: Adams County GIS/Assessor's Office, Wood analysis.

Table 4-5 summarizes the same information as above, but this time by parcel type. The below information indicates that most properties in Adams County are residential in nature, followed by exempt, commercial, agricultural, state assessed, and industrial. The Total Values of parcels available for assessment is over \$9.8 billion including both improvement values and content values. A total of 143,233 parcels were summed up for this exposure summary.

For those vulnerability analyses to follow in Section 4.3 Hazard Analysis and Risk Assessment, the total parcels exposed to the hazards available in geospatial format were obtained by overlaying the hazard threat layers with the parcel layer in GIS. The following hazards will have vulnerability summaries at the parcel level, due to the availability of hazard data for the geospatial overlay analysis: Dam Failure/Incidents, Flood, and Wildfire. Earthquake will also include damage and loss estimates to general property based on the Hazus-derived information (see Section 4.3.4 Earthquake for details).

Table 4-5 Improved Parcel Exposure Values by Parcel Type

Parcel Type	Improved Parcels	Improved Values	Content Values	Total Values
Agricultural	1,075	\$33,376,140	\$33,376,140	\$66,752,280
Commercial	4,927	\$1,781,604,870	\$1,781,604,870	\$3,563,209,740
Exempt	5,229	\$1,196,925,890	\$598,462,945	\$1,795,388,835
Industrial	339	\$230,905,240	\$346,357,860	\$577,263,100
Residential	131,270	\$2,937,495,470	\$1,468,747,735	\$4,406,243,205
State Assessed	393	\$0	\$0	\$0
TOTAL	143,233	\$6,180,307,610	\$4,228,549,550	\$10,408,857,160

Source: Adams County GIS/Assessor's Office, Wood analysis.

4.2.3 Critical Facilities and Infrastructure

A critical facility may be defined as one that is essential in providing utility or direction either during the response to an emergency or during the recovery operation. Table 4-6 summarizes the inventory of critical facilities by FEMA Lifeline and type (based on best available data) in Adams County. These data were provided by the Adams County GIS Department and supplemented by the Homeland Infrastructure Foundation-Level Data (HIFLD), a federal resource for open geospatial data geared towards supporting community preparedness, resiliency, and research. Table 4-7 summarizes these facilities by jurisdiction. The locations of these facilities are displayed in Figure 4-1 below. For context, FEMA Lifelines are the U.S. Department of Homeland Security's current recommended way to standardize the classification of critical facilities and infrastructure which provide indispensable service, operation, or function to a community. Per the Community Lifelines information sheet, "A lifeline provides indispensable service that enables the



continuous operation of critical business and government functions, and is critical to human health and safety, or economic security” (FEMA Community Lifelines, 2019). These categorizations are particularly useful as they:

- Enable effort consolidations between government and other organizations (e.g. infrastructure owners and operators)
- Enable integration of preparedness efforts among plans; easier identification of unmet critical facility needs
- Refine sources and products to enhance awareness, capability gaps, and progress towards stabilization
- Enhance communication amongst critical entities, while enabling complex interdependencies between government assets
- Highlight lifeline related priority areas regarding general operations as well as response efforts.

Specific information on facilities, names, and other key details by participating community can be found in the jurisdictional annexes.



Table 4-6 Critical Facilities and Infrastructure in Adams County By FEMA Lifeline and Facility Type

FEMA Lifeline	Critical Facility Type	Total
Communications	Communication Towers	73
TOTAL		73
Energy	Electric Substations	30
TOTAL		30
Food/Water/Shelter	EO Emergency Shelters	65
	Gravel Mines/Ponds	80
	Wastewater Treatment Plant	8
TOTAL		153
Hazardous Material	Environmental Hazard Superfund	86
	Environmental Hazard Toxic Site	36
	HazMat EO RMP Sites	14
	HazMat EO Tier II Sites	707
TOTAL		843
Health and Medical	Adult Day Care	2
	Assisted Living	27
	Dialysis Center	8
	Hospice	1
	Hospital	4
	Hospital/Surgical Center	8
	Medical Center	2
	Mental Health Center	3
	Nursing Home	18
	Senior Housing	2
Urgent Care	3	
TOTAL		78
Safety and Security	Fire Stations	39
	Government Facilities	32
	Landfills/Govt. Services	199
	Police Station	7
	Schools	225
TOTAL		502
Transportation	Airport	1
	Fishing Pier Bridge	1
	Golf Course Bridge	16
	Major Bridge	119
	Minor Bridge	77
	Pedestrian Bridge	27
RTD Commuter Rail Station	8	
TOTAL		249
GRAND TOTAL		1,928

Source: Adams County GIS, HIFLD, Wood analysis



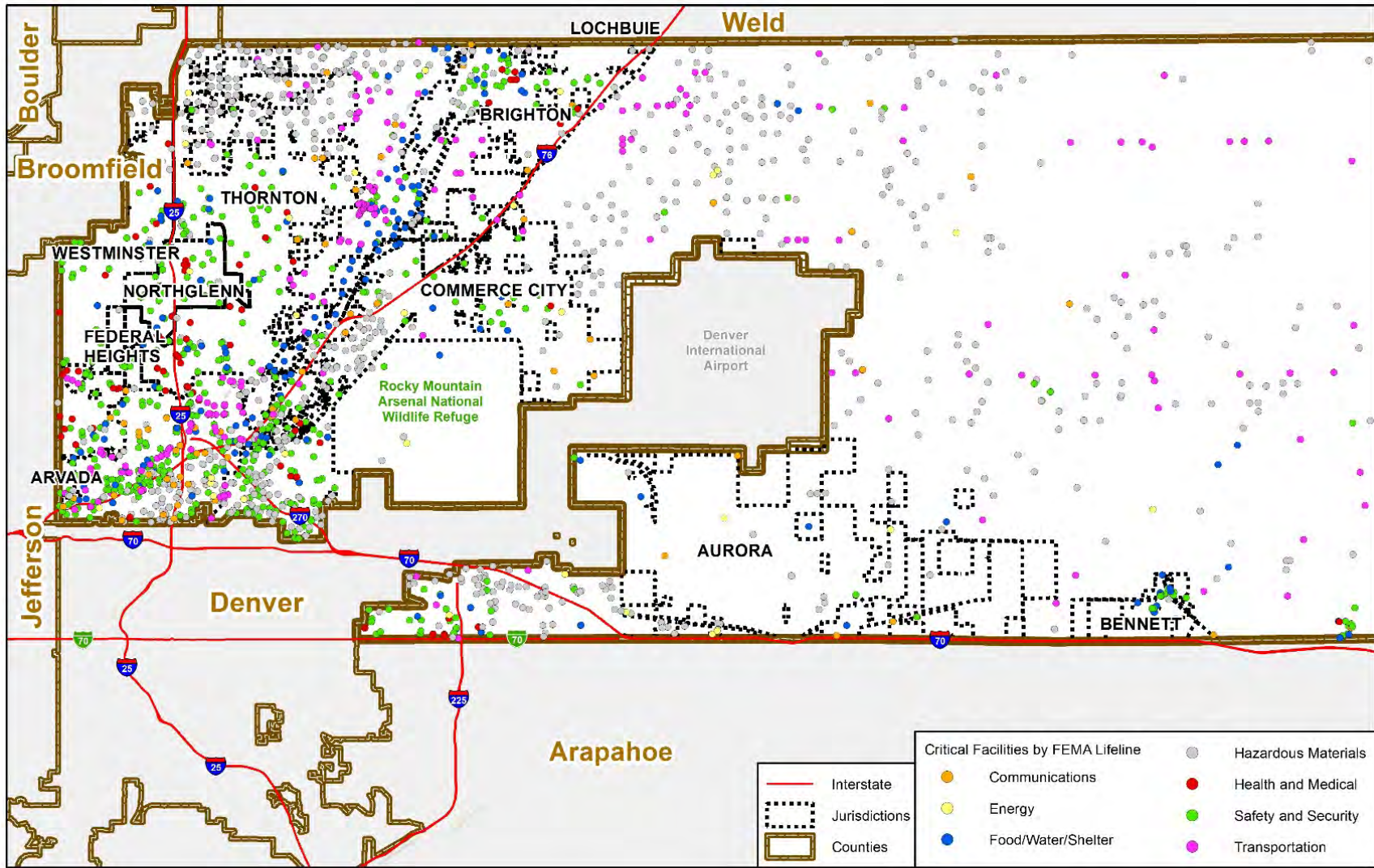
Table 4-7 Critical Facilities and Infrastructure in Adams County By Jurisdiction

Jurisdiction	Total
Arvada	7
Aurora	141
Bennett	14
Brighton	76
Commerce City	273
Federal Heights	12
Lochbuie	2
Northglenn	47
Thornton	203
Westminster	76
Unincorporated	1,077
TOTAL	1,928

Source: Adams County GIS, HIFLD, Wood analysis



Figure 4-1 Critical Facilities in West Adams County



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI, World Terrain Map, HIFLD

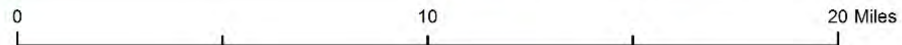
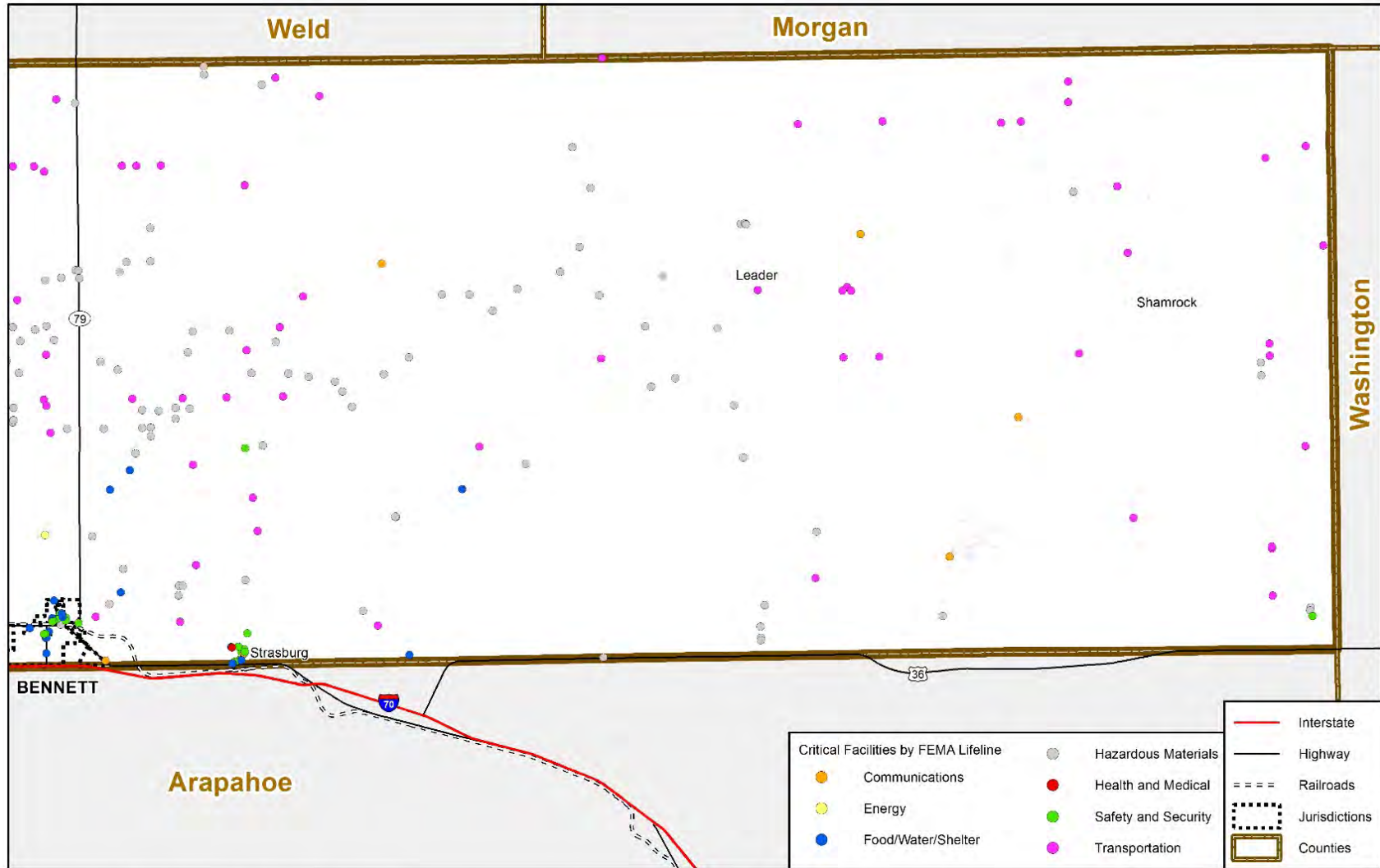


Figure 4-2 Critical Facilities in East Adams County



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI, World Terrain Map, HIFLD



4.2.4 Historic, Cultural, and Natural Resources

Assessing the vulnerability of Adams County to disasters also involves inventorying the natural, historic, and cultural assets of the area. This step is important for the following reasons:

- The community may decide that these types of resources warrant a greater degree of protection due to their unique and irreplaceable nature and contribution to the overall economy.
- If these resources are impacted by a disaster, knowing so ahead of time allows for more prudent care in the immediate aftermath, when the potential for additional impacts are higher.
- The rules and laws for reconstruction, restoration, rehabilitation, and/or replacement are often specific for these types of designated resources (e.g. under the [NEPA and Section 106 of the National Historic Preservation Act](#)).
- Natural resources can have beneficial functions that reduce the impacts of natural hazards, such as wetlands and riparian habitat, which help absorb and attenuate floodwaters.

Historical and Cultural Resources

A historic property not only includes buildings or other types of structures such as bridges and dams but can also refer to prehistoric or Native American sites, roads, byways, historic landscapes, and such other features. Given the history of the County, these types of historic properties exist; some are inventoried and listed in this plan and used in appropriate GIS analyses to determine potential vulnerability to hazards.

Historic properties and cultural resources are also valuable economic assets that increase property values and attract businesses and tourists. Far from being at odds with economic development, preservation of these assets is often an important catalyst for economic development (e.g., historic downtown revitalization programs leading to growth in heritage tourism). Some key information on historic assets and properties in Adams County was obtained from the National Register of Historic Places (NRHP). The NRHP database is the Nation's official list of cultural resources worthy of preservation, and the NRHP overall is part of a national program to coordinate and support public and private efforts to identify, evaluate, and protect historic and archeological resources. Properties listed include districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture. The National Register is administered by the National Park Service (NPS), which is part of the U.S. Department of the Interior.

Based on this NRHP database and the Adams County GIS Department-provided data used throughout this plan, there are 13 historic resources as summarized in the following table:

Table 4-8 Historic and Cultural Resources Noted by the NRHP and Adams County HMPC

Location	Historic Place Name	Date Entered into Register	Data Source
Aurora	Wilson, Blanche A., House	11/7/1996	NRHP
	Robidoux, M.J. Lavina, House	9/15/2011	NRHP
	Fuller, Granville, House	3/16/2012	NRHP
Brighton	Bromley Farm--Koizuma Hishinuma Farm	8/16/2007	NRHP
	Brighton High School	1/23/1998	NRHP
	Adams County Courthouse	10/4/2006	NRHP
Commerce City	64th/Colorado Fast Track Station	Unknown	Adams County GIS
Thornton	Eastlake Farmers Co-Operative Elevator Company	5/17/2010	NRHP
Westminster	Bowles House	11/3/1988	NRHP
	Harris Park School	8/30/1990	NRHP
	Gregory, William J., House	2/23/1996	NRHP
	Union High School	1/14/2000	NRHP



Location	Historic Place Name	Date Entered into Register	Data Source
Unincorporated	Westminster University	8/10/1979	NRHP

Note: NRHP = National Register of Historic Places

Source: NPS NRHP; Adams County GIS

Colorado has a similar historical resource record version, called the Colorado State Register of Historic Properties. This database contains the state's significant cultural resources worthy of preservation for the future education and enjoyment of Colorado's residents and visitors. Properties listed in the Colorado State Register include individual buildings, structures, objects, districts, and historic and archaeological sites. The Colorado State Register program is administered by the Office of Archaeology and Historic Preservation within the Colorado Historical Society. Properties listed in the National Register of Historic Places are automatically placed in the Colorado State Register. Based on this statewide record set, Adams County contains an additional 12 existing resources deemed historic preservation-worthy:

Table 4-9 Adams County Historic and Cultural Resources in the Colorado Historic Register

Historic Place Name	Location	Date Entered into Register
Brannan Sand and Gravel Pit #8, Lake Sangraco and Boat Complex	Address restricted, Denver vicinity	8/16/2011
Bruderlin House	Barr Lake State Park, 13401 Picadilly Rd., Brighton	9/11/1996
Colorado Sanitary Canning Factory	224 N. Main Street, Brighton	3/15/2016
Denver Tramway Streetcar #0.04	W 58th Pl and Tennyson St	6/14/2000
Engelbrecht Farm	2024 Strasburg Road, Strasburg	12/10/2014
First Presbyterian Church (Brighton)	147 S. 1st Ave., Brighton	6/9/1999
Fitzsimons General Hospital, Main Hospital Building	12101 E. Colfax Ave., Aurora	3/10/1999
Gottlieb & Rose Egli House	72nd & Quebec St., Rocky Mountain Arsenal National Wildlife Refuge, Commerce City vicinity	8/14/2002
Metzger Farm	12080 Lowell Blvd., Westminster	3/20/2013
Riverside Cemetery	5201 Brighton Blvd., Commerce City vicinity	10/28/1994
Savery Savory Mushroom Farm Water Tower	110th Ct. and Federal Blvd., Westminster	12/16/2005
Thede Farmhouse	3190 W. 112th Ave., Northglenn	1/30/1988

Source: State of Colorado Register Listed Historic Properties; <https://www.historycolorado.org/national-state-register-listed-properties>

It should be noted that as defined by the National Environmental Policy Act (NEPA), any property over 50 years of age is considered a historic resource and is potentially eligible for the National Register, also as stated under the National Historic Preservation Act (NHPA). Thus, in the event that the property is to be altered or has been altered as the result of a major federal action, the property must be evaluated under the guidelines set forth by NEPA and the NHPA regarding this key age period. In addition, by law under the NHPA, "members of the public have a voice when federal actions will affect properties that qualify for the National Register of Historic Places, the nation's official list of historic properties" (A Citizen's Guide to Section 106 Review, 2016). Structural mitigation projects are considered alterations for the purpose of these NEPA/NHPA regulations, if regarding historical properties and places.

Natural Resources

Natural resources are important to include in benefit-cost analyses for future projects and may be used to leverage additional funding for projects that also contribute to community goals for protecting sensitive natural resources. Awareness of natural assets can lead to opportunities for meeting multiple objectives.



For instance, protecting wetland areas protects sensitive habitat as well as attenuates and stores floodwaters.

A number of natural resources exist in Adams County including parks, open spaces, wetlands, and endangered or threatened species, for example. A summary of parks, open spaces, and trails is included in the table below:

Table 4-10 Parks, Trails, and Open Spaces in Adams County

Name	Use	Address
55th & Lowell Trailhead	Trailhead	3550 W 55th Pl
Big Dry Creek Greenway (Coday)	Open Space	14100 Washington St
Brighton Road Trailhead	Trailhead	13645 Brighton Rd
City View Park	Park	8150 City View Dr
Clear Creek Bottomlands	Open Space	1030 W 68th Ave
Coronado Parkway	Trail	2250 Coronado Pkwy S
E-470 Open Space	Open Space	13645 Brighton Rd
Elaine T Valente Open Space	Open Space	6990 E 104th Ave
Engineer Lake	Open Space	3200 Highway 224
Government Center Natural Park	Open Space	4430 S Adams County Pkwy
Jim Baker Reservoir	Open Space	5994 Tennyson St
Kalcevic Gulch	Drainage	1030 W 68th Ave
Little Dry Creek Lake	Drainage	2400 W 64th Ave
Lowell Ponds	Open Space	--
Pelican Ponds Open Space	Open Space	--
Regional Park	Park	9755 Henderson Rd
Riverdale Bluffs Open Space	Open Space	13655 Riverdale Rd
Rotella Park	Park	1824 Coronado Parkway S
Sandhofer Open Space	Open Space	7880 Ogden Ct
Siegrist Lake	Open Space	3200 Highway 224
Steele Street Park	Trailhead	7850 Steele St
TRI Property/Big Dry Buffer	Open Space	700 E 144th Ave
Twin Lakes Park	Park	200 W 70th Ave

Source: Adams County GIS

Wetlands

Wetlands are a valuable natural resource for communities due to their benefits to water quality, wildlife protection, recreation, and education, and play an important role in hazard mitigation. Wetlands reduce flood peaks and slowly release floodwaters to downstream areas. When surface runoff is dampened, the erosive powers of the water are greatly diminished. Furthermore, the reduction in the velocity of inflowing water as it passes through a wetland helps remove sediment being transported by the water. They also provide drought relief in water-scarce areas where the relationship between water storage and streamflow regulation is vital (Wetland Functions and Values, 2016).

The U.S. Fish and Wildlife National Wetlands Inventory recently updated wetlands data applicable to Adams County, under the Colorado Eastern Plains Riparian Metadata Addendum effort. This data is current as of 2019 and contains studied wetlands of two types for the planning area: Forested/Shrub Riparian, the most widely available throughout the county, and an Herbaceous Riparian type, more prevalent in the western portions of the county, especially north and east of the Commerce City/Rocky Mountain Arsenal National Wildlife Refuge area. The acreage for the two mapped wetland types for Adams County is listed below. The amount of wetlands of various kinds is helpful to note because these areas may require special attention during future development efforts across the county.



- Forested/Shrub Riparian: 3,433 acres
- Herbaceous Riparian: 234 acres

Endangered Species

To further understand natural resources that may be particularly vulnerable to a hazard event, as well as those that need consideration when implementing mitigation activities, it is important to identify at-risk species (endangered and threatened species) in the planning area. An *endangered* species is any species of fish, plant life, or wildlife that is in danger of extinction throughout all or most of its range. A *threatened* species is a species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range. Both endangered and threatened species are protected by law and any future hazard mitigation projects are subject to these laws. Candidate species are a third category of plants and animals at risk, but these have been proposed as endangered or threatened but are not currently listed.

According to the U.S. Fish and Wildlife Service (USFW) Environmental Conservation Online System (ECOS), there were 13 federally endangered, threatened, or candidate/proposed/under/other status review species in Adams County (as of January 2020). These are listed in Table 4-11.

Table 4-11 At-Risk Wildlife in Adams County

Type of Species (Group)	Common Name	Scientific Name	Species Status
Birds	Whooping crane	<i>Grus americana</i>	Experimental Population, Non-Essential
Birds	Bald eagle	<i>Haliaeetus leucocephalus</i>	Recovery
Birds	Bald eagle	<i>Haliaeetus leucocephalus</i>	Recovery
Birds	Bald eagle	<i>Haliaeetus leucocephalus</i>	Recovery
Birds	Bald eagle	<i>Haliaeetus leucocephalus</i>	Recovery
Birds	Bald eagle	<i>Haliaeetus leucocephalus</i>	Recovery
Birds	American peregrine falcon	<i>Falco peregrinus anatum</i>	Recovery
Birds	Mexican spotted owl	<i>Strix occidentalis lucida</i>	Threatened
Flowering Plants	Ute ladies'-tresses	<i>Spiranthes diluvialis</i>	Threatened
Flowering Plants	Western prairie fringed Orchid	<i>Platanthera praeclara</i>	Threatened
Mammals	Black-footed ferret	<i>Mustela nigripes</i>	Endangered
Mammals	Preble's meadow jumping mouse	<i>Zapus hudsonius preblei</i>	Threatened
Mammals	Little brown bat	<i>Myotis lucifugus</i>	Under Review

Source: USFW ECOS, 2020

4.3 Hazard Analysis and Risk Assessment

4.3.1 Cyber Incident

Hazard Description

The 2018 Colorado State Hazard Mitigation Plan defines cyber attacks as “deliberate exploitation of computer systems, technology-dependent enterprises, and networks.” Cyber-attacks use malicious code to alter computer operations or data. The vulnerability of computer systems to attacks is a growing concern as people and institutions become more dependent upon networked technologies. The Federal Bureau of Investigation (FBI) reports that, “cyber intrusions are becoming more commonplace, more dangerous, and more sophisticated,” with implications for private- and public-sector networks.



There are many types of cyber attacks. Among the most common is a **direct denial of service, or DDoS** attack. This is when a server or website will be queried or pinged rapidly with information requests, overloading the system and causing it to crash.

Malware, or malicious software, can cause numerous problems once on a computer or network, from taking control of users' machines to discreetly sending out confidential information. **Ransomware** is a specific type of malware that blocks access to digital files and demands a payment to release them. Hospitals, school districts, state and local governments, law enforcement agencies, businesses, and even individuals can be targeted by ransomware. A 2017 study found ransomware payments over a two-year period totaled more than \$16 million. Even if a victim is perfectly prepared with full offline data backups, recovery from a sophisticated ransomware attack typically costs far more than the demanded ransom. However, according to a 2016 study by Kaspersky Lab, roughly one in five ransomware victims who pay their attackers are still not able to retrieve their data.

Cyber spying or espionage is the act of illicitly obtaining intellectual property, government secrets, or other confidential digital information, and often is associated with attacks carried out by professional agents working on behalf of a foreign government or corporation. According to cybersecurity firm Symantec, in 2016 "...the world of cyber espionage experienced a notable shift towards more overt activity, designed to destabilize and disrupt targeted organizations and countries."

A major **data breach** is when hackers gain access to large amounts of personal, sensitive, or confidential information and have become increasingly common. A 2018 report from the security firm Symantec found that more than seven billion identities have been exposed in data breaches over the last eight years. In addition to networked systems, data breaches can occur due to the mishandling of external drives.

Cyber crime can refer to any of the above incidents when motivated primarily by financial gain or other criminal intent.

The most severe type of attack is **cyber terrorism**, which aims to disrupt or damage systems in order to cause fear, injury, and loss to advance a political agenda.

The 2018 Colorado State Hazard Mitigation Plan concludes: "This is a newly developing threat, so as more resources are devoted to countering the hazard, the risk of a disruption would hopefully decrease. Mitigation opportunities for this hazard include continued diligence of the state's Office of Information Technology (OIT), as well as for other government and private sector entities to continue to monitor, block, and report cyber-attacks, and continually assess the vulnerability of systems."

Phishing is a technique employed in many of the above attacks, and involves sending fraudulent emails purporting to be from known contacts or reputable companies to induce individuals to reveal personal information, such as passwords and credit card numbers, or to click on links that put the user at risk.

Geographic Location

Cyber disruption events can occur and/or impact virtually any location in the state where computing devices are used. Incidents may involve a single location or multiple geographic areas. A disruption can have far-reaching effects beyond the location of the targeted system; disruptions that occur far outside the state can still impact people, businesses, and institutions within Adams County.

Previous Occurrences

Symantec reports there were a total of 1,209 data breaches worldwide in 2016, 15 of which involved the theft of more than 10 million identities. While the number of breaches has remained relatively steady, the average number of identities stolen has increased to almost one million per incident. The report also



found that one in every 131 emails contained malware, and the company's software blocked an average of 229,000 web attacks every day.

The Privacy Rights Clearinghouse, a nonprofit organization based in San Diego, maintains a timeline of 9,741 data breaches resulting from computer hacking incidents in the United States from 2005-2019. The database lists 69 data breaches potentially affecting Colorado, totaling over 11 million impacted records. While none of those breaches involved servers in Adams County, it is probable that some County residents were affected; similarly, some Adams County residents were likely affected by national and international data breaches.

In February 2018, the Colorado Department of Transportation (CDOT) server was breached as part of a ransomware attack. The following narrative describes the incident.

Between February 21st and the 23rd, malware began encrypting CDOT workstations and servers. This was a ransomware attack which denied user access to their e-mail, electronic files, data, and computer applications. This attack impacted approximately 3,800 laptops (~50% infected), 200 desktops, 354 servers (~40% infected), and a host of other electronic devices and applications. Each device needed to be individually assessed and have multiple security patches applied.

Upon the completion of an initial situational assessment, the CDOT Executive Director activated a Departmental Incident Management Team on February 26th, with the sole responsibility of being the central entity to direct all internal activities related the ransomware virus incident. This included: the reassignment of departmental resources (as needed); establish prioritized lists of actions to be taken; coordination with the Office of Information Technology (OIT) on technical measures to confine and eradicate the virus as well as restore the network; and provide a public information message for staff, vendors, the media and the public. There were no previous incidents (nationwide) to draw upon to assist in identifying our actions to respond to or recover from an event of this scale or scope.

On February 28th, the CDOT network had been assessed as clean and authorization was given for non-infected workstations to be brought back online following a second assessment and remediation. By March 1st, new infections had been detected along with unexplained activity on the network. All recovery efforts were halted, and additional computer security resources were requested. The entire network was shut down, which included commercial vendors as well as the Colorado National Guard Cyber Team and other federal assets. The Recovery process restarted on March 7th.

While the technological side of the incident was being resolved, the prioritization of business functions continued. The first priority was to enable the appropriate software package(s) to process invoices and payments. Then, a move onto the other 55 computer applications that the department utilizes on a daily basis. By March 11th, small portions of the network were turned on to staff.

On March 19th, the formal recovery phase began with the goal of reconstituting the entire network.

Other jurisdictions have been impacted by ransomware attacks in recent years. The City of Atlanta was hit by a major ransomware attack in 2018, recovery from which wound up costing a reported \$2.6 million, significantly more than the \$52,000 ransom demand. A similar attack against the City of Baltimore in 2019 affected the city government's email, voicemail, property tax portal, water bill and parking ticket payment systems, and delayed more than 1,000 pending home sales. In March 2019, Orange County, North Carolina was attacked with a ransomware virus, causing slowdowns and service problems at key public offices such as the Register of Deeds, the sheriff's office and county libraries. The attack impacted a variety



of county services, including disrupting the county's capability to process real estate closings, issue marriage licenses, process fees or permits, process housing vouchers, and verify tax bills.

A large, sophisticated malware attack, known as Olympic Destroyer, was launched against the 2018 Winter Olympics in PyeongChang, South Korea. The attack initially took down servers, email, Wi-Fi, and ticketing systems, which could have severely disrupted the games. Fortunately, the organizing committee had a robust cybersecurity group that was able to quickly restore most functions.

Probability of Future Occurrence

Cyber attacks occur daily, but most have negligible impacts at the local or regional level. The possibility of a larger disruption affecting systems within the County is a constant threat, but it is difficult to quantify the exact probability due to such highly variable factors as the type of attack and intent of the attacker. Minor attacks against business and government systems have become a commonplace occurrence but are usually stopped with minimal impact. Similarly, data breaches impacting the information of residents of Adams County are almost certain to happen in coming years. Major attacks specifically targeting systems or infrastructure in the County are less likely but cannot be ruled out.

Magnitude/Severity

The extent or magnitude/severity of a cyber disruption event is variable depending on the nature of the event. A disruption affecting a small, isolated system could impact only a few functions or processes. Disruptions of large, integrated systems could impact many functions or processes, as well as many individuals that rely on those systems. Data breaches are often described in terms of the number of records or identities exposed.

There is no universally accepted scale to quantify the severity of cyber attacks. The strength of a DDoS attack is sometimes explained in terms of a data transmission rate. One of the largest DDoS disruptions ever, which brought down some of the internet's most popular sites on October 21, 2016, peaked at 1.2 terabytes per second.

Climate Change Considerations

There are no known impacts of climate change on this hazard.

Vulnerability

As discussed above, the impacts from a cyber attack vary greatly depending on the nature, severity, and success of the attack. A major cyber attack has the potential to undermine public confidence and build doubt in their government's ability to protect them from harm.

People

Injuries or fatalities from cyber attacks would generally only be possible from a major cyber terrorist attack against critical infrastructure.

General Property

Short of a major cyber terrorist attacks against critical infrastructure, property damage from cyber-attacks is typically limited to computer systems.

Critical Facilities and Infrastructure

Agencies that rely on electronic backup of critical files are vulnerable. The delivery of services can be impacted since governments rely, to a great extent, upon electronic delivery of services. An attack could raise questions regarding the security of using electronic systems for government services.



While the vast majority of cyber attacks affect only data and computer systems, sophisticated attacks against utilities and infrastructure sites have occurred. Such attacks typically target the Supervisory Control And Data Acquisition (SCADA) systems of critical infrastructure, which can potentially result in system failures on a scale equal with natural disasters. Facilities and infrastructure, such as the electrical grid, could become unusable as a result of a cyber attack.

Economy

Large scale cyber attacks can greatly affect the economy. Symantec reports that in the last three years, businesses have lost \$3 billion due to phishing email scams alone. In an electronic-based commerce society, any disruption to daily activities can have disastrous impacts to the economy. It is difficult to measure the true extent of the impact.

Historic, Cultural, and Natural Resources

The vast majority of cyber incidents have little to no impact on historic, cultural or natural resources. A major cyber terrorism attack could potentially impact the environment by triggering a release of a hazardous materials, or by causing an accident involving hazardous materials by disrupting traffic-control devices.

Future Development

Our society's increasing reliance on technology and internet-based services means that the risk of cyber attacks is likely to increase. However newer systems and facilities are more likely to incorporate good cybersecurity systems and practices, potentially making them less vulnerable compared to older systems.

Risk Summary

The overall significance of cyber attacks in Adams County is Low.

- Most data breaches and hacking incidents only impact a few individuals or businesses at a time and have minimal broader impact.
- Ransomware attacks, particularly against state and local governments, have increased significantly in recent years and could have major impacts on County services.
- Major cyber attacks against infrastructure and systems are also happening with more frequency worldwide, but there is no data to suggest that Adams County is likely to be targeted.
- Effects on people: Cyber attacks can impact personal data and accounts. Injuries or fatalities could potentially result from a major cyber terrorist attacks against critical infrastructure.
- Effects on property: Short of a major cyber terrorist attacks against critical infrastructure, property damage from cyber attacks is typically limited to computer systems.
- Effects on economy: Could greatly affect the economy. In an electronic-based commerce society, any disruption to daily activities can have disastrous impacts to the economy. It is difficult to measure the true extent of the impact.
- Effects on critical facilities and infrastructure: Sabotage of utilities and infrastructure from a major cyber terrorist attacks could potentially result in system failures that damage property on a scale equal with natural disasters. Facilities and infrastructure could become unusable as a result of a major cyber-attack.
- Related hazards: Terrorism, Dam Failure/Incident, and Hazardous Materials incident.



Table 4-12 Cyber Incident Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Limited	Likely	Limited	Low
Bennett	Extensive	Likely	Critical	High
Brighton	Limited	Likely	Limited	Low
Commerce City	Limited	Likely	Limited	Medium
Denver Water	Limited	Likely	Limited	Low

4.3.2 Dam Failure/Incident

Hazard Description

Dams are constructed for a variety of uses, including flood protection, power, agriculture/irrigation, water supply, and recreation. Dams typically are constructed of earth, rock, concrete, or mine tailings. Two factors that influence the potential severity of a full or partial dam failure are the amount of water impounded and the density, type, and value of development and infrastructure located downstream.

Dam failures can result from any one or a combination of the following causes:

- Prolonged periods of rainfall and flooding, which result in overtopping (overtopping is the primary cause of earthen dam failure)
- Earthquake/seismic activity
- Inadequate spillway capacity resulting in excess overtopping flows
- Internal erosion caused by embankment or foundation leakage or piping or rodent/wildlife activity
- Improper design
- Improper maintenance
- Negligent operation
- Failure of upstream dams on the same waterway

Dam inundation can also occur from non-failure events, such as overtopping due to heavy rains. Controlled releases to allow water to escape when a reservoir is overflowing actually can help prevent future overtopping or failure, and is an important strategy to consider when dealing with significant and high hazard dams.

The Colorado Dam Safety branch developed a tool in recent years that can support public awareness, planning, and emergency preparedness and response involving high hazard dams across the state. This tool evaluates dams and their capabilities regarding operational and flood release functions to prevent or minimize potential future damages (Flood Hazard Mitigation Plan for Colorado 2018).

Geographic Location

The geographic coverage of this hazard in Adams County ranges from **Limited** to **Significant**, based on the planning area at risk. The U.S. Army Corps of Engineers National Inventory of Dams (NID) 2018 database was queried for those dams either inside the Adams County boundaries, or upstream of it so that they may cause inundation into the county if the structures failed. This source lists 88 dams of concern in or upstream of the County, and classifies them based on the potential hazard to the downstream areas as a result of failure or mis-operation of the dam or facilities:

- **High Hazard Potential**—Probable loss of life



- **Significant Hazard Potential**—No probable loss of human life but can cause economic loss, environment damage, disruption of lifeline facilities, or other major impacts; often located in predominantly rural or agricultural areas but could be located in areas with population and significant infrastructure
- **Low Hazard Potential**—No probable loss of human life and low economic and/or environmental losses; losses are principally limited to the owner’s property

Note that the hazard potential ratings do not reflect the likelihood of dam failure, merely the consequences if a failure did occur. Based on these classifications, there are 51 high hazard dams, 18 significant hazard dams, and 19 low hazard dams either inside of Adams County or upstream of it so that they are considered dams of concern. These dams are listed in Table 4-13 and illustrated in Figure 4-3 and Figure 4-4. All of the high and significant hazard dams have emergency action plans (EAPs) in place, while the low hazard dams are not required to have these EAPs.



Table 4-13 Dams of Concern for Adams County

Dam Name	Waterway	Downstream City	Dam Type	Storage Capacity (Acre-Feet)	Emergency Action Plan?	Primary Purpose	Hazard Rating
Arapahoe Lake	Goldsmith Gulch	Denver	Earth	45	Yes	Recreation	Significant
Badding	South Platte River-Tr	Northglenn	Earth	60	Yes	Water Supply	Significant
Barr Lake	Beebe Draw	Hudson	Earth	47,000	Yes	Irrigation	High
Bear Creek Dam	Bear Creek	Denver	Earth	75,000	Yes	Flood Control	High
Beers Sisters Lake	S. Platte River-Tr	Littleton	Earth	91	Yes	Irrigation	Significant
Blunn	Ralston Creek	Arvada	Earth	7,839	Yes	Recreation	High
Bramkamp	Muddy Creek	Fort Morgan	Earth	1,630	Not Required	Irrigation	Low
Cabin Creek Lower	South Clear Creek	Georgetown	Rockfill	1,990	Yes	Hydroelectric	High
Cabin Creek Upper	South Clear Creek	Georgetown	Rockfill	1,800	Yes	Hydroelectric	High
Carmody	Sanderson Gulch-Os	Lakewood	Earth	82	Yes	Recreation	Significant
Chatfield Dam	South Platte River	Denver	Earth	355,000	Yes	Flood Control	High
Cherokee NW	South Platte-Os	Commerce City	Earth	157	Not Required	Other	Low
Cherry Creek Dam	Cherry Creek	Denver	Earth	134,470	Yes	Flood Control	High
Clear Lake	South Clear Creek	Georgetown	Earth	1,100	Yes	Hydroelectric	High
Croke No. 7	Tr.Of South Platte River-Os	Northglenn	Earth	200	Not Required	Irrigation	Low
Derby	South Platte River-Os	Commerce City	Earth	1,230	Yes	Irrigation	Significant
Devinney	S. Lakewood Gulch	Lakewood	Earth	64	Yes	Irrigation	Significant
Dunes	South Platte River-Os	Brighton	Earth	5,644	Yes	Water Supply	High
East	Weir Gulch-Os	Lakewood	Earth	190	Yes	Irrigation	High
East Lake #2	Brantner Gulch-Tr	Thornton	Earth	176	Yes	Flood Control	Significant
Englewood	Willow Creek	Littleton	Earth	3,500	Yes	Flood Control	High
Evergreen	Bear Creek	Evergreen	Earth	800	Yes	Recreation	High
Exposition Park	Westerly Creek	Aurora	Earth	293	Yes	Flood Control	High
Fort Logan Dam	Bear Creek-Tr	Sheridan	Earth	98	Yes	Irrigation	Significant
Fortune	Big Dry Creek-Tr	Westminster	Earth	10,219	Yes	Water Supply	High
Genesee No. 2	--		Gravity	127	Yes	Water Supply	High
Great Western	Walnut Creek	Westminster	Earth	4,459	Yes	Water Supply	High
Havana Street Dam	South Platte River-Tr		Earth	397	Not Required	Flood Control	Low
Hidden Lake	Clear Creek-Os	Westminster	Earth	650	Not Required	Recreation	Low
Holly	Little Dry Creek	Littleton	Earth	455	Yes	Flood Control	High
Hyatt	Van Bibber Creek-Tr	Arvada	Earth	1,000	Yes	Irrigation	High
Jewell Wetland Detention	Westerly Creek-Tr	Aurora	Earth	96	Yes	Flood Control	Significant
Kalcevic	Clear Creek-Tr	Westminster	Earth	59	Yes	Flood Control	High
Kelly Road Detention	Westerly Creek	Denver	Earth	800	Yes	Flood Control	High
Ketner	Walnut Creek-Tr	Westminster	Earth	434	Yes	Fish and Wildlife Pond	High
La Dore	South Platte River-Os	Commerce City	Earth	510	Not Required	Water Supply	Low
Lambertson Lakes No. 3	--	Thornton	Earth	86	Not Required	Recreation	Low



Dam Name	Waterway	Downstream City	Dam Type	Storage Capacity (Acre-Feet)	Emergency Action Plan?	Primary Purpose	Hazard Rating
Leyden	Leyden Creek	Arvada	Earth	1,300	Yes	Flood Control	High
Lookout Mountain	Clear Creek-Tr	Golden	Earth	128	Yes	Water Supply	High
Magic Mountain #1	Jackson Gulch	Pleasant View	Earth	189	Yes	Other	High
Main	Weir Gulch-Os	Lakewood	Earth	1,320	Yes	Irrigation	High
Maple Grove	Lena Gulch	Lakewood	Earth	1,585	Yes	Water Supply	High
Margaret-Carpenter	Grange Hall Creek	Thornton	Earth	105	Not Required	Irrigation	Low
Marshall	Brantner Gulch-Tr	Brighton	Earth	98	Not Required	Flood Control	Low
Marston Lake - East Dam	South Platte River-Os	Denver	Earth	21,100	Yes	Water Supply	High
Marston Lake - North Dam	South Platte River-Os	Denver	Earth	22,500	Yes	Water Supply	High
Marston Lake - Northwest Dike	South Platte River-Os	Denver	Earth	21,100	Yes	Water Supply	High
Marston Lake - South Dam	South Platte River-Os	Denver	Earth	21,100	Yes	Water Supply	High
Mc Lellan	Dad Clark Gulch	Littleton	Earth	9,700	Yes	Water Supply	High
Mckay Lake - East	Big Dry Creek-Tr	Westminster	Earth	445	Yes	Irrigation	High
Mckay Lake - South	Big Dry Creek-Os	Westminster	Earth	445	Yes	Recreation	High
Metzger	Big Dry Creek-Tr	Westminster	Earth	55	Not Required	Irrigation	Low
Miller	South Platte-Tr	Commerce City	Earth	2,262	Not Required	Water Supply	Low
Morrison Raw Water	Bear Creek-Tr	Morrison	Earth	42	Yes	Water Supply	High
Niver Creek Detention	South Platte River-Tr	Thornton	Earth	837	Yes	Flood Control	High
No Name 1-1 #1	Muddy Creek	Ft. Morgan	Earth	725	Not Required	Irrigation	Low
Noonen	Muddy Creek	Fort Morgan	Earth	2,640	Not Required	Irrigation	Low
Northglenn Terminal	Big Dry Creek-Os	Westminster	Earth	147	Yes	Water Supply	Significant
Pomona No. 2 And No. 3	Little Dry Creek-Os	Arvada	Earth	178	Yes	Flood Control	Significant
Quincy	West Toll Gate Creek	Aurora	Earth	4,560	Yes	Recreation	High
Ralston	Ralston Creek	Arvada	Earth	15,900	Yes	Water Supply	High
Senac	Senac Creek	Aurora	Earth	40,400	Yes	Recreation	High
Siena	Coal Creek-Tr	Lafayette	Earth	640	Yes	Water Supply	High
Signal #1	Big Dry Creek-Tr	Fort Lupton	Earth	345	Yes	Irrigation	Significant
Signal No.2	Big Dry Ck-Offstream	Fort Lupton	Earth	2,186	Not Required	Irrigation	Low
Smith	Bear Creek-Os	Lakewood	Earth	822	Yes	Irrigation	High
Smith Irrigation	Todd Creek	Brighton	Earth	429	Yes	Fish and Wildlife Pond	High
South Platte Reservoir	South Platte River-Os	Littleton	Earth	7,435	Yes	Water Supply	High
South Tani Reservoir	South Platte River-Os	Thornton	Earth	7,530	Yes	Water Supply	High
Spring Gulch	Spring Gulch	Denver	Earth	1,752	Yes	Irrigation	High
Standley Lake	Big Dry Creek	Westminster	Earth	54,740	Yes	Irrigation	High
Sunny Acres	South Platte River-Tr	Northglenn	Earth	30	Not Required	Fire Protection/Stock/Small Fish Pond	Low
Talbott Irrigation	Big Dry Creek-Os	Thornton	Earth	61	Not Required	Irrigation	Low
Terminal Storage Reservoir	Big Dry Creek-Os	Westminster	Earth	514	Yes	Water Supply	High
The Ranch	Big Dry Creek-Tr	Westminster	Earth	28	Yes	Irrigation	Significant
Tigers	South Platte River-Os	Thornton	Earth	2,974	Not Required	Water Supply	Low

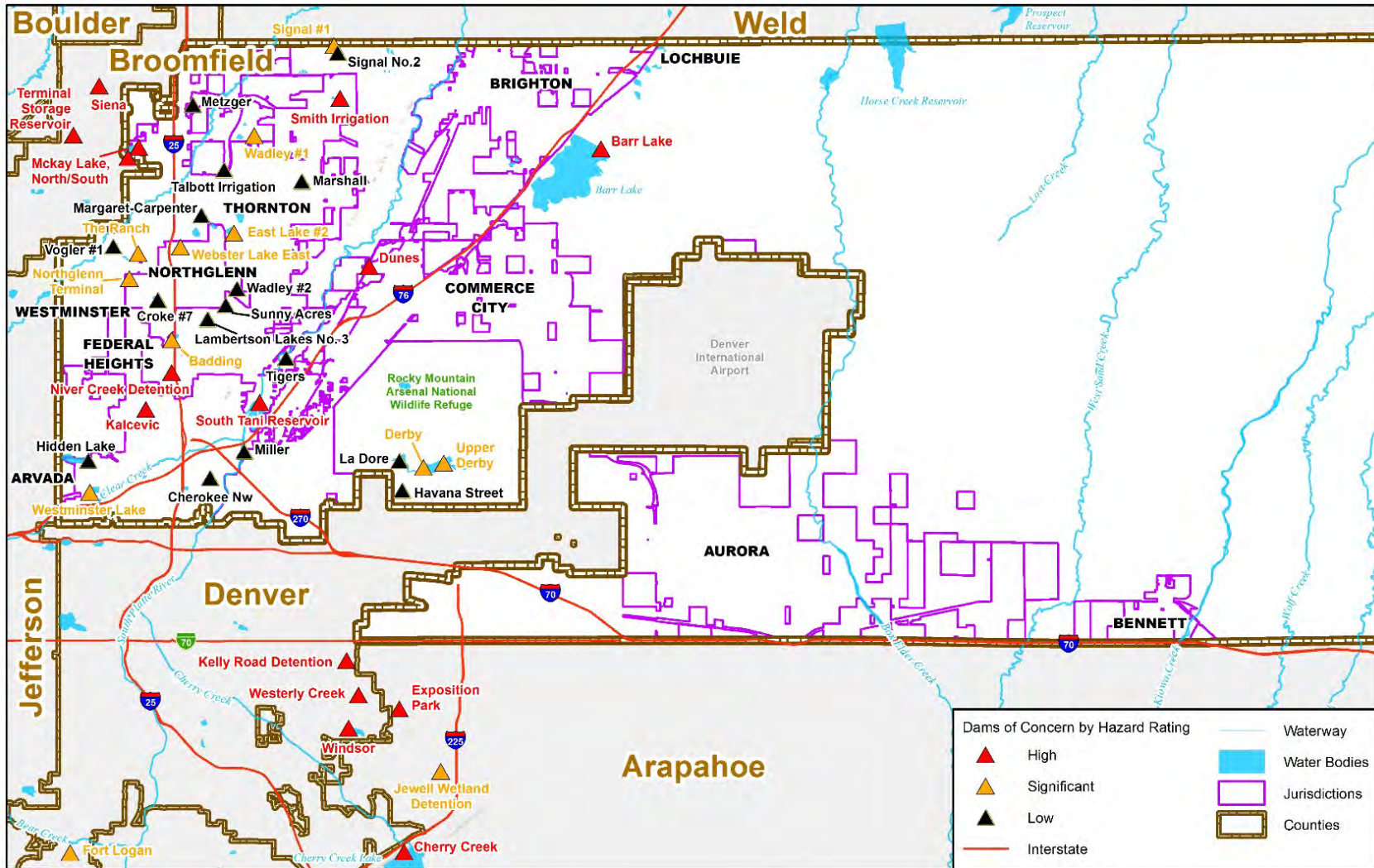


Dam Name	Waterway	Downstream City	Dam Type	Storage Capacity (Acre-Feet)	Emergency Action Plan?	Primary Purpose	Hazard Rating
Tucker Lake - North Dam	Ralston Creek-Os	Arvada	Earth	882	Yes	Irrigation	High
Tucker Lake - South Dam	Ralston Creek-Os	Arvada	Earth	1,250	Yes	Irrigation	High
Upper Church Lakes	Big Dry Creek	Westminster	Earth	381	Yes	Irrigation	Significant
Upper Derby	South Platte River-Tr	Commerce City	Earth	620	Yes	Water Supply	Significant
Vogler #1	Big Dry Creek-Tr	Westminster	Earth	50	Not Required	Irrigation	Low
Wadley #1	Big Dry Creek-Os	Fort Lupton	Earth	74	Yes	Irrigation	Significant
Wadley #2	Big Dry Creek-Os	Thornton	Earth	126	Not Required	Irrigation	Low
Webster Lake East	Big Dry Creek-Os	Northglenn	Earth	129	Yes	Fish and Wildlife Pond	Significant
Westerly Creek	Westerly Creek	Denver	Earth	9,300	Yes	Flood Control	High
Westminster Lake	Clear Creek-Os	Westminster	Earth	1,196	Yes	Recreation	Significant
Windsor	Westerly Creek-Os	Denver	Earth	735	Yes	Irrigation	High
Woman Creek	Woman Creek-Os	Westminster	Earth	1,155	Yes	Flood Control	High

Source: USACE National Inventory of Dams 2018, Wood analysis



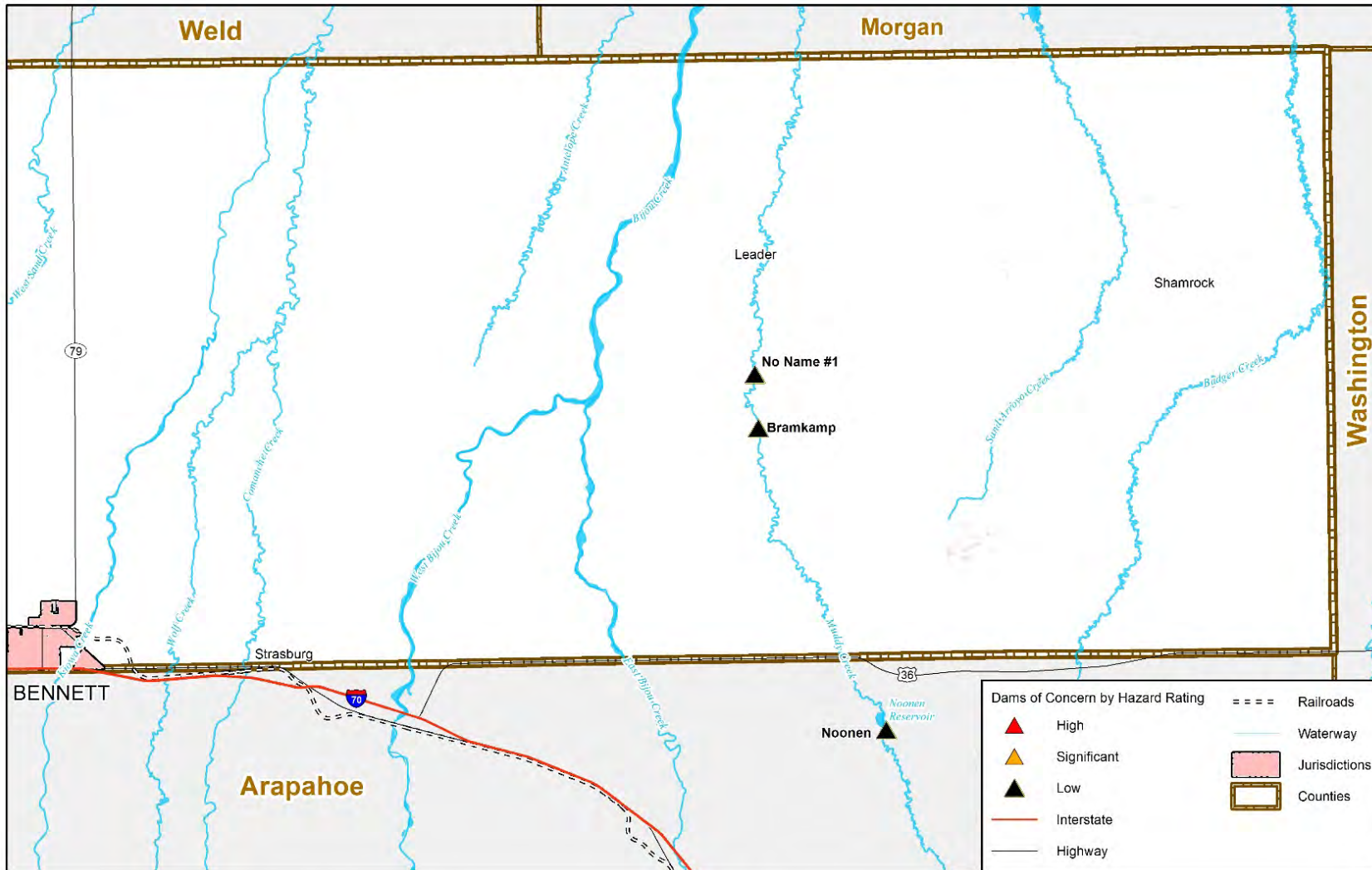
Figure 4-3 Dams of Concern in or Upstream of West Adams County



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS, Colorado
Information Marketplace, CO BLM, ESRI
World Terrain Map, NID 2018



Figure 4-4 Dams of Concern in or Upstream of East Adams County



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI, World Terrain Map, NID 2018



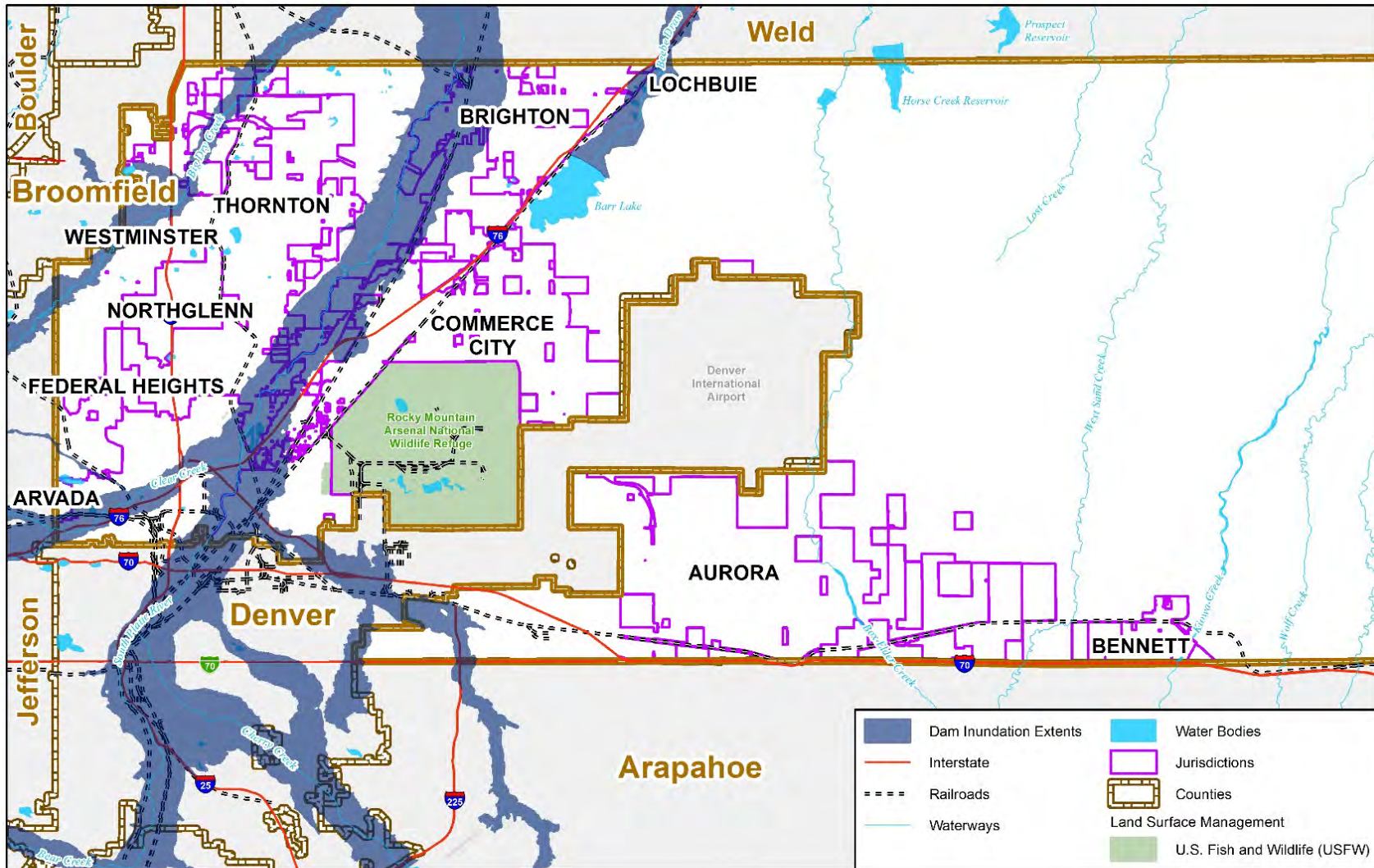
Dam inundation mapping is available for two significant and 24 high hazard dams located in or upstream of Adams County, as displayed in Figure 4-5 and Figure 4-6 below. This data was obtained from the Colorado Dam Safety program (under the Division of Water Resources, a part of the Colorado Department of Natural Resources).

The communities of Arvada, Aurora, Brighton, Commerce City, Lochbuie, Thornton, and Westminster are all exposed to dam inundation, as available in map form. The main affected areas would be those along the South Platte River, Clear Creek, Bijou Creek, Big Dry Creek, Beebe Draw, Sand Creek, Little Dry Creek, Toll Gate Creek, Westerly Creek, and smaller portions of other waterways in the western portion of Adams County such as Second and Third Creeks. Dams as far west as the Clear Lake Dam and the Upper and Lower Cabin Creek Dams in Clear Creek County have the potential to affect Adams County based on the inundation mapping available. If one of the more upstream dams were to fail and cause flooding along Clear Creek, it would potentially overload others downstream, leading to compound overflow and hence additional inundation from other structures until reaching the planning area.

More information on the potential risk to life, property, infrastructure, and other assets and county resources are contained in discussions, tables, and maps under the Vulnerability Assessment section for this hazard.



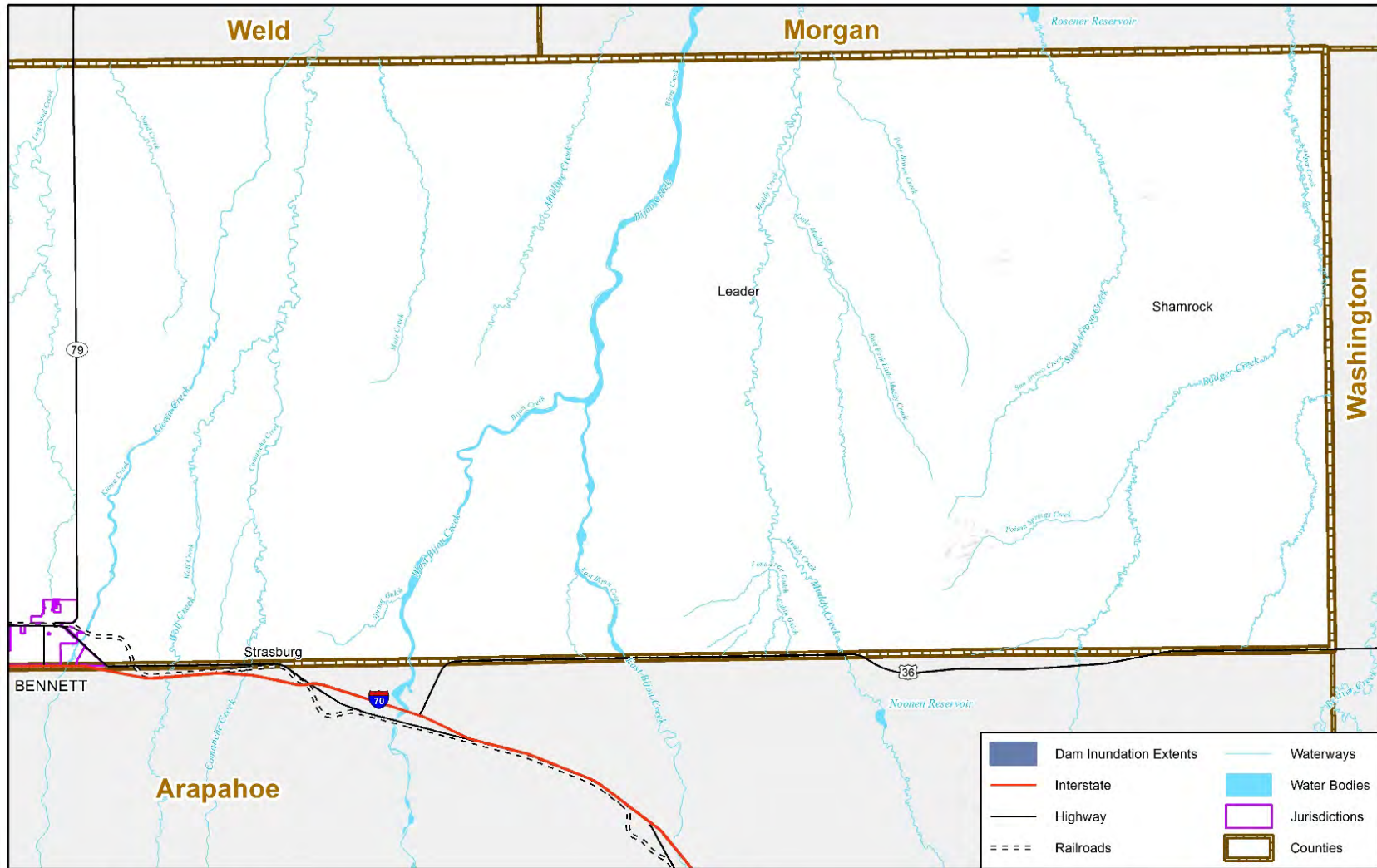
Figure 4-5 Dam Inundation Extents in West Adams County



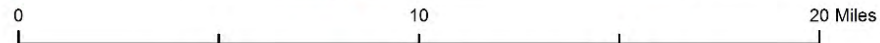
Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS, Colorado
Information Marketplace, CO BLM, ESRI
World Terrain Map, NID 2018, CO Dam Safety



Figure 4-6 Dam Inundation Extents in East Adams County



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS, Colorado
Information Marketplace, CO BLM, ESRI
World Terrain Map, NID 2018, CO Dam Safety
Note: No available dam inundation extents
found in eastern Adams County.



Previous Occurrences

January 3, 1996 - The Standley Lake dam failed in 1996, due to wind waves on the Standley Lake reservoir along Big Dry Creek. While this dam is located in Jefferson County, its proximity to Adams County and present-day inundation mapping makes it possible that inundation took place within the planning area ([NPDP 2019](#)).

April 15, 1994 - The Leyden Dam, located in Jefferson County northeast of the Blunn as well as the Tucker Lake North and South Dams had a failure event on April 15, 1994. This incident took place due to inadequate dam spillway capacity, though no additional details are available. While the dam is not within Adams County boundaries, based on present-day inundation mapping, it is possible that flooding occurred within the planning area ([NPDP 2019](#)).

Probability of Future Occurrence

Occasional—1-10% chance of occurrence in the next year, though this is a mere estimation of potential occurrence based on the presence of significant and high hazard dams. Because dam failure is a human-caused hazard, it is difficult to accurately predict when or how a dam will fail and cause inundation downstream. Using the methodology adopted for natural hazards in this plan, only two past events near the planning area represents an occasional probability of future occurrence in Adams County.

Magnitude/Severity

Catastrophic—Failure of a significant or high hazard dam could lead to multiple deaths; property destroyed and severely damaged; and/or interruption of essential facilities and services for more than 72 hours.

Water released by a failed dam generates tremendous energy and can cause a flood that is catastrophic to life and property located in the inundation area (downstream). The largest three dams in terms of maximum storage in or upstream of Adams County are: the Chatfield Dam in Douglas County along the South Platte River (with a capacity of 355,000 acre-feet); the Cherry Creek Dam in Arapahoe County along the Cherry Creek River (with a capacity of 134,470 acre-feet); and the Bear Creek Dam in Jefferson County, along Bear Creek (with a capacity of 75,000 acre-feet).

As mentioned in the Geographic Location section of this chapter, a total of 26 dams have inundation mapping available that crosses the boundaries of Adams County. The majority of these are rated as high hazard structures (24 dams), with two being significant hazard dams that could cause inundation in the planning area. Based on the data available and the mapping provided in Figure 4-5, the worst possible dam-based flooding could take place in the western portions of Adams County, where structures such as the Chatfield and Cherry Creek Dams could affect large areas in major population centers in the county. A total of just over 156 square miles of potential land in the county would be at risk of dam inundation, based on best available mapping. However, it is worth noting that this mapping is not comprehensive due to reasons such as ongoing studies for other dams in or upstream of the planning area, and the presence of low hazard dams which do not require EAPs and hence inundation mapping.

The overall significance rating for this hazard is **High**.

Climate Change Considerations

With a potential for increase in extreme precipitation events, climate change may result in large floods that could stress dams and thus potentially increase the risk of dam failure. Dams are designed based on calculations of a river's flow behavior, and any changes in weather patterns can have significant effects on the hydrologic information used for the design of a dam. Climate change may alter the dam profile and



affect the designed margin of safety. However, these potential effects could be offset by generally lower reservoir levels if storage water resources become more limited or stretched in the future due to climate change, drought and/or population growth.

Vulnerability

A dam incident can range from a small, uncontrolled release to a catastrophic failure. Vulnerability to dam failures is confined to the areas and populations subject to inundation downstream of the structure. Secondary losses could include loss of the multi-use functions of the dam itself and associated revenues that accompany those functions, as well as damage to roads, utilities, and other infrastructure. GIS analysis was carried out using dam inundation extents from the Colorado Dam Safety Program as well as the Adams County parcel data (from the Assessor's Office), and the critical facility/infrastructure inventory. In this process, asset data was overlaid with the dam inundation layers to arrive at total units or facilities at risk.

People

Persons located downstream of a dam are at risk of a dam failure, though the level of risk can be tempered by topography, amount of water or material in the reservoir/dam/structure, and time of day of the breach. Injuries and fatalities can occur from debris, drowning, or release of sludge or other hazardous material. People in the inundation area may need to be evacuated, cared for, and possibly permanently relocated. Impacts could include hundreds of evacuations and possibly casualties, depending on the dam involved. Specific population impacts are noted in Table 4-14 and Table 4-15 below; total people at risk were calculated by multiplying the average number of persons per household in Adams County based on Census estimates (which equals 3.0) times the number of properties of Residential nature where the dam inundation extents were overlapping. An estimated total of 36,966 people could be at risk countywide based on the rough estimation used, though again it is unlikely that all the parcels or properties found to overlap with dam inundation extents will be populated by the total persons shown or actually affected by a dam failure event simultaneously. This estimate does not account for non-resident or visitor population.

The impacts of flooding from a dam failure or incident on vulnerable populations can be more severe. Comparing Figure 4-5 and Figure 4-6 with the social vulnerability maps in Section 2-5 shows that many of the areas at greatest risk of dam inundation also have higher social vulnerability stemming from socioeconomic status, household composition and disabilities, minority status and language proficiency, or housing and transportation resources. Families in this area may have fewer financial resources to prepare for or recover from a flood, and may be more likely to be uninsured or underinsured. Individuals with disabilities may need more time to evacuate, so evacuation notices will need to be issued as soon as feasible, and communicated by multiple, inclusive methods.

General Property

The total properties at risk and their improvements were found by counting the number of parcels intersecting with the dam inundation extents available and summing those improvement values. Content value calculations are based on FEMA Hazus software standards based on parcel type, as described in more detail under Section 4.2 Asset Summary. Total value is the combination of improved and content values. Finally, the loss estimate column takes 50% of the total values column, which represents an estimate value of damage potential based on parcels exposed to this hazard (using FEMA depth damage function guideline estimates). Results are presented in Table 4-14 and Table 4-15 by jurisdiction and by parcel type, respectively.



Table 4-14 Parcels Exposed to Dam Inundation Extents – Estimates by Jurisdiction

Jurisdiction	Total Improved Parcels	Improved Values	Content Values	Total Values	Loss Estimate (50% of the Total Value)	Population
Arvada	32	\$10,094,430	\$11,782,160	\$21,876,590	\$10,938,295	3
Aurora	1,893	\$101,028,570	\$81,967,100	\$182,995,670	\$91,497,835	4,977
Brighton	4,955	\$168,061,240	\$115,714,860	\$283,776,100	\$141,888,050	12,855
Commerce City	1,760	\$114,269,880	\$99,377,785	\$213,647,665	\$106,823,833	3,732
Lochbuie	1	\$0	\$0	\$0	\$0	--
Thornton	1,958	\$92,668,280	\$57,265,530	\$149,933,810	\$74,966,905	5,454
Westminster	2,215	\$80,550,950	\$48,575,490	\$129,126,440	\$64,563,220	6,093
Unincorporated	2,201	\$387,975,450	\$252,549,170	\$640,524,620	\$320,262,310	3,852
TOTAL	15,015	\$954,648,800	\$667,232,095	\$1,621,880,895	\$810,940,448	36,966

Source: USACE National Inventory of Dams 2018, Colorado Dam Safety Program, Adams County GIS, U.S. Census Bureau, Wood analysis

Table 4-15 Parcels Exposed to Dam Inundation Extents – Estimates by Parcel Type

Parcel Type	Improved Parcels	Parcel Values	Content Values	Total Values	Loss Estimate (50% of the Total Value)	Population
Agricultural	81	\$4,235,480	\$4,235,480	\$8,470,960	\$4,235,480	--
Commercial	1,249	\$279,340,670	\$279,340,670	\$558,681,340	\$279,340,670	--
Exempt	1,069	\$376,606,900	\$188,303,450	\$564,910,350	\$282,455,175	--
Industrial	132	\$48,119,620	\$72,179,430	\$120,299,050	\$60,149,525	--
Residential	12,322	\$246,346,130	\$123,173,065	\$369,519,195	\$184,759,598	36,966
State Assessed	162	\$0	\$0	\$0	\$0	--
TOTAL	15,015	\$954,648,800	\$667,232,095	\$1,621,880,895	\$810,940,448	36,966

Source: USACE National Inventory of Dams 2018, Colorado Dam Safety Program, Adams County GIS, U.S. Census Bureau, Wood analysis

Based on these results, the majority of the dam inundation exposed parcels are Residential, followed by the Commercial, Exempt, State Assessed, Industrial, and Agricultural categories. The largest numbers of exposed parcels are located in Brighton, followed by Westminster, the Unincorporated County areas, Thornton, Aurora, Commerce City, Arvada, and Lochbuie. Total exposed parcel values add up to \$1.62 billion based on the over 15,000 parcels falling within these available dam inundation areas.

Critical Facilities and Infrastructure

A total dam failure can cause catastrophic impacts to areas downstream of the water body, including critical facilities and infrastructure. Any critical asset located under the dam in an inundation area would be susceptible to the impacts of a dam failure. Of particular risk would be roads and bridges that could be vulnerable to washouts, further complicating response and recovery by cutting off impacted areas. Based on the critical facility inventory considered in the updating of this plan and intersected with the dam inundation extents available, 583 critical facilities were found to be at risk. These at-risk facilities are listed in the three tables below, first by jurisdiction (Table 4-16), then by Lifeline classification as based on the FEMA Lifeline categories (Table 4-17), and lastly by facility type (Table 4-18).

Table 4-16 Critical Facilities in Dam Inundation Extents by Jurisdiction

Jurisdiction	Total Critical Facilities
Unincorporated	319
Commerce City	154
Brighton	39
Thornton	39
Aurora	15
Westminster	13
Arvada	3



Jurisdiction	Total Critical Facilities
Lochbuie	1
TOTAL	583

Source: USACE National Inventory of Dams 2018, Colorado Dam Safety Program, Adams County GIS, HIFLD, Wood analysis

Table 4-17 Critical Facilities in Dam Inundation Extents by FEMA Lifeline

FEMA Lifeline	Total Critical Facilities
Hazardous Material	197
Safety and Security	191
Transportation	88
Food/Water/Shelter	78
Communications	18
Energy	6
Health and Medical	5
TOTAL	583

Source: USACE National Inventory of Dams 2018, Colorado Dam Safety Program, Adams County GIS, HIFLD, FEMA Lifelines, Wood analysis

Table 4-18 Critical Facilities in Dam Inundation Extents by Critical Facility Type

Critical Facility Type	Total Critical Facilities
Landfills/Govt. Services	144
HazMat EO Tier II Sites	111
Environmental Hazard Superfund	67
Gravel Mines/Ponds	64
Schools	26
Pedestrian Bridge	25
Major Bridge	24
Minor Bridge	19
Communication Towers	18
Government Facilities	17
Golf Course Bridge	16
Environmental Hazard Toxic Site	15
EO Emergency Shelters	10
Electric Substations	6
Fire Stations	4
HazMat EO RMP Sites	4
Wastewater Treatment Plant	4
Nursing Home	3
RTD Light Rail Station	3
Assisted Living	2
Fishing Pier Bridge	1
TOTAL	583

Source: USACE National Inventory of Dams 2018, Colorado Dam Safety Program, Adams County GIS, HIFLD, FEMA Lifelines, Wood analysis

The analysis results indicate that the largest category of critical facilities are Hazardous Materials (HazMat) sites, followed by Safety and Security (which includes sites such as fire stations, government facilities, landfills/government services, and others), Transportation, and Food/Water/Shelter facilities. Communications, Energy facilities, and Health and Medical facilities make up a small portion of the critical facilities at risk. Based on location, the largest number of critical facilities in dam inundation extents are within the unincorporated areas, with Commerce City next.



Economy

Extensive and long-lasting economic impacts could result from a major dam failure or inundation event, including the long-term loss of water in a reservoir, which may be critical for potable water needs or local wildlife. A major dam failure and loss of water from a key structure could bring about direct business and industry damages and potential indirect disruption of the local economy, and potentially affect important transportation routes enabling business and tourism into the county.

Historic, Cultural, and Natural Resources

A GIS analysis of historic properties and resources based on dam inundation mapping was also conducted, using the historic asset inventory discussed under Section 4.2 Asset Summary of this document. Based on the available data, it was found that three properties are located in dam inundation areas in Adams County, as shown in Table 4-19.

Table 4-19 Historic Properties and Resources in Dam Inundation Extents in Adams County

Jurisdiction	Historic Place Name	Historic Source Date	Data Source
Brighton	Brighton High School	1/23/1998	National Register of Historic Places
	Adams County Courthouse	10/4/2006	National Register of Historic Places
Commerce City	64th/Colorado Fast Track Station	Unknown	Adams County GIS

Source: Adams County GIS, National Register of Historic Places, Colorado Dam Safety Program, Wood Analysis

In addition, there are many other natural resources potentially exposed to dam inundation based on best available mapping. For example, 18 known parks, trails, and open spaces were found to be in inundation areas in Adams County, and are listed below:

- 55th & Lowell Trailhead
- Big Dry Creek Greenway (Coday) Open Space
- Brighton Road Trailhead
- Clear Creek Bottomlands Open Space
- E-470 Open Space
- Elaine T Valente Open Space
- Engineer Lake Open Space
- Jim Baker Reservoir Open Space
- Kalcevic Gulch
- Little Dry Creek Lake
- Lowell Ponds Open Space
- Pelican Ponds Open Space
- Regional Park
- Riverdale Bluffs Open Space
- Siegrist Lake
- Steele Street Park
- TRI Property/Big Dry Buffer Open Space
- Twin Lakes Park

Future Development

Flooding due to a water related dam failure event is likely to exceed the special flood hazard areas regulated through local floodplain ordinances and usually mapped by FEMA's National Flood Hazard Layer (NFHL) dataset. The County and jurisdictions should consider a dam failure hazard when permitting development downstream of the high hazard and significant hazard dams, in particular. There are currently 19 low hazard dams in the area of interest, and these could become significant or high hazard dams if development occurs below them. Regular monitoring of dams, exercising and updating of EAPs, and rapid response to problems when detected at dams are ways to mitigate the potential impacts of these rare but potentially catastrophic events, especially given the compounding effect one dam failure could have on additional downstream structures based on the local built environment and growing populations.

Risk Summary

- The overall significance of dam failure and incident hazards is **Medium** for Adams County.



- 51 High hazard dams (leading to probable loss of life if failure was to occur) are located in or upstream of Adams County, along with 18 Significant hazard dams and 19 Low hazard dams, for a total of 88 dams.
- The largest storage capacity dams that could affect Adams County if failure was to take place are: Chatfield Dam in Douglas County, Cherry Creek Dam in Arapahoe County, and the Bear Creek Dam in Jefferson County.
- Brighton, Westminster, and the Unincorporated County areas contain the largest population at risk to a dam failure as well as the highest amount of parcels and total values exposed. Over 15,000 parcels are found in dam inundation extents, with over \$1.43 billion of exposed values, and almost 37,000 people potentially at risk.
- A total of 583 critical facilities and infrastructure are found within dam inundation extents in the county, most of which belong to the Hazardous Materials and Safety and Security categories (based on FEMA Lifelines, described in more detail under Section 4.2, Asset Summary)
- New development in dam inundation areas increases risk and may cause dam hazard rankings to change (e.g. from Low to Significance hazard rating).

Table 4-20 Dam Failure/Incident Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Limited	Unlikely	Critical	Medium
Bennett	Limited	Unlikely	Critical	Medium
Brighton	Significant	Occasional	Catastrophic	High
Commerce City	Limited	Occasional	Limited	Low
Denver Water	Limited	Unlikely	Critical	Medium

4.3.3 Drought/Extreme Heat

Hazard Description

Drought is a slow-onset hazard, generally defined by a long-term deficiency in precipitation resulting in water shortages causing adverse impacts on vegetation, animals, and/or people. Droughts occur gradually, which often makes it difficult to define when a drought begins and ends. Per the National Drought Mitigation Center, there are four basic approaches to defining a drought based on its effects:

- **Meteorological drought** is based on the degree and duration of dryness, usually defined by a period of below average precipitation.
- **Agricultural drought** links dryness to agricultural impacts and occurs when there is an inadequate water supply to meet the needs of crops, livestock, and other agricultural operations. It is measured by precipitation shortages, differences between actual and potential evapotranspiration, soil water deficits, reduced groundwater or reservoir levels, and other factors. Agricultural drought is dependent on the variable needs of different crops during different stages of development.
- **Hydrological drought** concerns deficiencies in surface and subsurface water supplies and is typically defined on a watershed scale. It is generally measured as streamflow, snowpack, and as lake, reservoir, and groundwater levels. Measuring drought with this approach may result in a slower recognition of drought conditions compared to meteorological and agricultural drought because the impacts of precipitation deficiencies can take a while to be seen in the hydrologic system.



- **Socioeconomic drought** is associated with the supply and demand of water or other related goods. It occurs when a drought impacts health, well-being, and quality of life, or when a drought starts to have an adverse economic impact on a region.

Each of the above definitions of drought can be measured on different scales and scopes and by a variety of metrics, such as precipitation, soil moisture, streamflow, and surface water and groundwater levels. Additionally, each definition can provide a different point of view or understanding of drought severity and impacts. Several unique indices have been developed to describe drought and measure its severity. It's important to understand that each of these indices measures drought as it occurs but does not predict future drought conditions.

The **Palmer Drought Severity Index** (PDSI) devised in 1965, was the first drought indicator to assess moisture status comprehensively. The PDSI uses temperature and precipitation data to calculate water supply and demand, incorporates soil moisture, and is considered most effective for unirrigated cropland. It primarily reflects long-term drought and has been used extensively to initiate drought relief.

The **Standardized Precipitation Index** (SPI), like the PDSI, index is negative for drought, and positive for wet conditions. However, the SPI is a probability index that considers only precipitation.

The **U.S. Drought Monitor** provides a summary of drought conditions across the United States and Puerto Rico. Often described as a blend of art and science, the Drought Monitor map is updated weekly by combining a variety of data-based drought indices and indicators as well as local expert input into a single composite drought indicator.

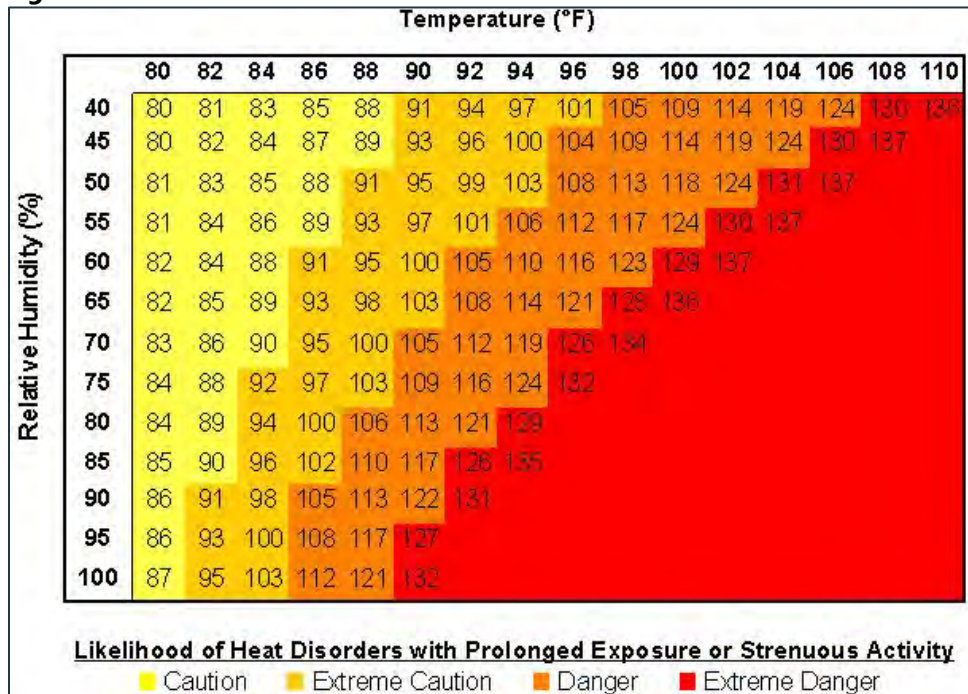
Colorado has a Drought Mitigation and Response Plan that encompasses drought monitoring, assessment, response, and mitigation statewide. Additionally, the Colorado Water Conservation Board (CWCB) maintains a Drought Response page that encompasses the above definitions of drought and supports both local and state drought planning as well as water supply planning. The CWCB also provides a Drought Planning Toolbox designed to assist with planning and responding to drought.

Extreme heat is defined in the State Hazard Mitigation Plan as "temperatures over 90 degrees for an extended period of time, or that hover 10 degrees or more above the average high temperature for the region and last for multiple consecutive days." It's useful to consider the extreme heat hazard in conjunction with drought because of the direct impact high temperatures can have on drought incidence. Extreme heat can occur quickly and without warning. Older adults, children, and sick or overweight individuals are more vulnerable to extreme heat.

Heat conditions are a product of ambient air temperature and relative humidity. Humidity increases the feeling of heat as measured by heat index. The Heat Index Chart in Figure 4-7 shows how ambient temperature and relative humidity impact the relative intensity of heat conditions. The shaded zone above 105°F corresponds to a heat index that may cause increasingly severe heat disorders with continued exposure and/or physical activity.



Figure 4-7 Heat Index Chart



Source: National Weather Service (NWS) http://www.nws.noaa.gov/os/heat/heat_index.shtml
 Note: Exposure to direct sun can increase Heat Index values by as much as 15°F.

Although lower relative humidity contributes to a lower overall heat index, excessively dry and hot weather can also be dangerous. These conditions can cause dust storms and low visibility and can contribute to more severe drought as well as dangerous fire conditions.

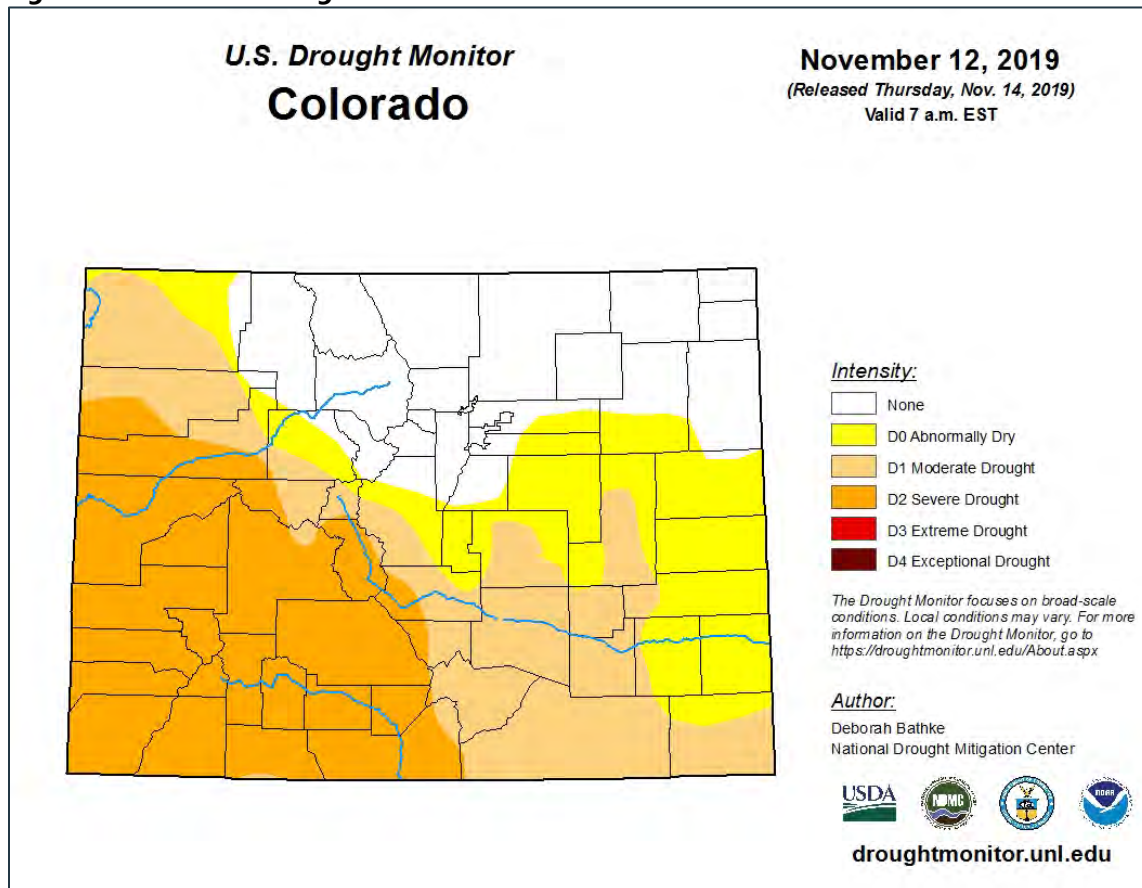
Geographic Location

Drought is regional in nature and can occur anywhere in Adams County, affecting all or part of the County at any given time. Given the increased vulnerability of agriculture to drought, the central and eastern portions of the County, where most of the County’s agricultural activities are concentrated, may have greater exposure and vulnerability to drought.

Figure 4-8 shows the U.S. Drought Monitor for Colorado as of November 12, 2019, illustrating the regional nature of drought.



Figure 4-8 U.S. Drought Monitor



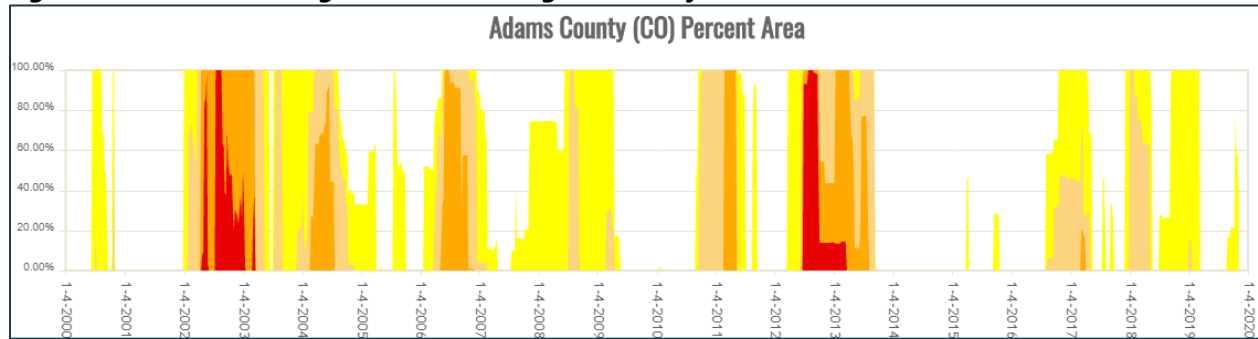
Extreme heat is also regional in nature; however, urbanized areas can experience pockets of heightened temperatures where surfaces such as pavement and roofs become hotter than the air temperatures, a phenomenon known as the urban heat island effect. These hot surfaces also retain heat, causing high temperatures to persist even when air temperature drops. Per the EPA, “the annual mean air temperature of a city with 1 million people or more can be 1.8–5.4°F (1–3°C) warmer than its surroundings. On a clear, calm night, however, the temperature difference can be as much as 22°F” (US EPA).

Previous Occurrences

As reported in Table 4-3, Adams County has received seven USDA disaster declarations and one State disaster declaration due to drought.

The U.S. Drought Monitor maintains weekly records of drought by county. Per these records, during the 991-week period from January 2000 through December 2018, all or portions of Adams County spent 595 weeks (60% of the time period) in some level of drought, defined as Abnormally Dry (D0) or worse conditions. Figure 4-9 illustrates the severity and duration of drought conditions during this time, using the same color coding for each category of drought intensity as shown in Figure 4-8 above. This period includes 173 weeks of Severe Drought (D2) or worse and 73 weeks reaching Extreme Drought (D3). The most significant droughts on record during this period were between 2002-2003 and 2012-2013. During the 2012 drought, over 90% of the County was in Extreme Drought for 13 consecutive weeks.



Figure 4-9 U.S. Drought Monitor Drought Intensity, 2000-2020

Source: U.S. Drought Monitor

Another source of data on previous drought occurrences is the National Drought Mitigation Center (NDMC), located at the University of Nebraska in Lincoln, which provides a clearinghouse for information on the effects of drought based on reports from media, observers, impact records, and other sources.

According to the NDMC's Drought Impact Reporter, during the 20-year period from January 1999 through December 2018, 809 drought impacts were recorded for the State of Colorado, of which 46 were reported to affect Adams County. Table 4-21 summarizes the number of impacts reported by category and the years impacts were reported for each category, where available. Note that the Drought Impact Reporter assigns multiple categories to each impact.

Table 4-21 NDMC Drought Impact Reporter, 1999-2018

Impact Category	Count of Impacts	Years Reported
Agriculture	7	2013, 2012
Business & Industry	4	2018, 2017, 2012, 2011, 2010, 2003, 2002
Fire	2	2002
Plants & Wildlife	9	2018, 2013, 2012, 2011, 2010
Relief, Response & Restrictions	18	2018, 2013, 2012
Society & Public Health	1	n/a
Tourism & Recreation	6	2018, 2017, 2013, 2012, 2003, 2002
Water Supply & Quality	23	2018, 2013, 2012

Source: National Drought Mitigation Center Drought Impact Reporter (<https://droughtreporter.unl.edu/map/>)

The United States Department of Agriculture (USDA) Risk Management Agency (RMA) maintains a database of all crop insurance claims across the country by location and cause of loss. This data helps to quantify the economic impact of drought on agriculture. In Adams County, crop insurance claims were made as a result of drought in 11 of the 12 years during the period from 2007 through 2018. In total, over 332,000 acres were affected and over \$20.6 million in losses were claimed.

Table 4-22 Crop Insurance Claims Paid Due to Drought, 2007-2018

Year	Determined Acres	Indemnity Amount
2007	12,817.84	\$503,968
2008	49,030.74	\$3,529,313
2009	10,719.54	\$723,133
2010	7,246.27	\$216,685
2011	33,110.91	\$2,822,833
2012	40,674.43	\$2,776,135
2013	72,746.57	\$4,950,549
2015	660.03	\$20,521

Year	Determined Acres	Indemnity Amount
2016	2,390.87	\$96,626
2017	31,607.78	\$1,519,018
2018	71,199.82	\$3,486,813
Total	332,204.80	\$20,645,594

Source: USDA RMA

The USDA also tracks disaster declarations issued due to drought as part of its disaster assistance programs. Per these records, Adams County has been listed in four USDA Disaster Declarations resulting from drought since 2012, detailed in Table 4-23.

Table 4-23 USDA Secretarial Disaster Declarations for Adams County due to Drought, 2012-2019

Designation Number	Begin Date	Crop Year	Description
S3260	1/1/2012	2012	Drought, excessive heat, high winds
S3456	11/1/2012	2013	Drought-FAST TRACK
S3548	5/1/2013	2013	Drought-FAST TRACK
S4145	11/15/2016	2017	Drought-FAST TRACK

Source: USDA Farm Service Agency

NOAA's National Centers for Environmental Information (NCEI) reports five heat events between 1999 and 2018. There are no deaths, injuries, property damages, or crop damages recorded in association with these events. Event narratives from NCEI are detailed below:

- June-July 2000:** July 15th marked the end of a near record hot streak for the Denver area. The maximum high temperature at Denver International Airport equaled or exceeded the 90 degree mark for 17 consecutive days, from June 29th-July 15th; one day short of tying the all-time record. The record of 18 consecutive days was set in two different years, July 1st-July 18th, 1874 and July 6th-23rd, 1901.
- September 2000:** On September 17th, the record high temperature of 95 at Denver International Airport broke three record extremes. The afternoon maximum temperature broke the previous record for the day of 94 set in 1895. It also marked the warmest it has been so late in the month of September, which incidentally was set the previous day. Also, the afternoon high temperature marked the 61st time during the year that the 90 degree mark was met or exceeded, breaking the record of 60 days set in 1994 and then tied the previous day.
- June 2012:** June 2012 was the hottest June in Denver since weather records began back in 1872. There were a total of seventeen 90 degree days in the month of June. The highlight of the month was a stretch of five consecutive 100 degree days from the 22nd to the 26th. This was only the third time in Denver weather history in which this happened. Two of the high temperatures during the stretch peaked at 105 degrees, which set the all-time record for the month of June and also tied the all-time maximum temperature for Denver.

Additionally, the National Weather Service Denver/Boulder Forecast Office maintains summer heat records from 1872 to the present. Per these records, during 10 of the last 20 years the Denver area experienced 2 or more days per year with high temperatures at or above 100 degrees. The greatest number of 100+ degree days occurred in 2012, with 13 days, followed by 2005 with 7 days.

Probability of Future Occurrence

According to information from the Colorado Drought Mitigation and Response Plan, Colorado was in drought for 50 of the past 126 years (1893-2018). Thus, there is a 39.7% chance that a drought will



happen in Colorado in any given year, and a drought can be expected somewhere in the state every 2.5 years.

Historical drought occurrence and intensity data reported by the U.S. Drought Monitor indicates that over the 991-week period from January 2000 through December 2018 Adams County experienced 173 weeks of Severe Drought or worse conditions. If future occurrences continue to follow this trend, Adams County has a 17% chance of experiencing severe drought conditions in any given week. Short duration droughts are likely, but longer periods of intense drought are less common. Considered on the level of annual probability, Adams County experienced Severe Drought or worse conditions during 8 of the 19 years during this period, which equates to a 40% annual chance of severe drought conditions.

Based on NCEI records of five heat-related events over the 20-year period from 1999 through 2018, Adams County has at least a 25% annual chance of experiencing heat-related hazards.

Drought and extreme heat probability may increase in the future due to climate change, discussed in greater detail below.

Magnitude/Severity

Drought severity can be defined in terms of intensity using the U.S. Drought Monitor scale. The U.S. Drought Monitor Scale measures drought episodes with input from the Palmer Drought Severity Index, the Standardized Precipitation Index, the Keetch-Byram Drought Index, soil moisture indicators, and other inputs as well as information on how drought is affecting people. Figure 4-10 details the classifications used by the U.S. Drought Monitor. A category of D2 (severe) or higher on the U.S. Drought Monitor Scale can likely result in crop or pasture losses, water shortages, and the need to institute water restrictions.

Figure 4-10 U.S. Drought Monitor Classifications

Category	Description	Possible Impacts	Ranges				
			Palmer Drought Severity Index (PDSI)	CPC Soil Moisture Model (Percentiles)	USGS Weekly Streamflow (Percentiles)	Standardized Precipitation Index (SPI)	Objective Drought Indicator Blends (Percentiles)
D0	Abnormally Dry	<ul style="list-style-type: none"> Going into drought: <ul style="list-style-type: none"> short-term dryness slowing planting, growth of crops or pastures Coming out of drought: <ul style="list-style-type: none"> some lingering water deficits pastures or crops not fully recovered 	-1.0 to -1.9	21 to 30	21 to 30	-0.5 to -0.7	21 to 30
D1	Moderate Drought	<ul style="list-style-type: none"> Some damage to crops, pastures Streams, reservoirs, or wells low, some water shortages developing or imminent Voluntary water-use restrictions requested 	-2.0 to -2.9	11 to 20	11 to 20	-0.8 to -1.2	11 to 20
D2	Severe Drought	<ul style="list-style-type: none"> Crop or pasture losses likely Water shortages common Water restrictions imposed 	-3.0 to -3.9	6 to 10	6 to 10	-1.3 to -1.5	6 to 10
D3	Extreme Drought	<ul style="list-style-type: none"> Major crop/pasture losses Widespread water shortages or restrictions 	-4.0 to -4.9	3 to 5	3 to 5	-1.6 to -1.9	3 to 5
D4	Exceptional Drought	<ul style="list-style-type: none"> Exceptional and widespread crop/pasture losses Shortages of water in reservoirs, streams, and wells creating water emergencies 	-5.0 or less	0 to 2	0 to 2	-2.0 or less	0 to 2

Source: US Drought Monitor

The National Weather Service Heat Index Program provides a measure of the extent of typical health impacts of exposure to heat, summarized in Table 4-24. During these conditions, the human body has difficulties cooling through the normal method of the evaporation of perspiration, and health risks rise.



Table 4-24 Typical Health Impacts of Extreme Heat by Heat Index

Heat Index (HI)	Disorder
80-90° F (HI)	Fatigue possible with prolonged exposure and/or physical activity
90-105° F (HI)	Sunstroke, heat cramps, and heat exhaustion possible with prolonged exposure and/or physical activity
105-130° F (HI)	Heatstroke/sunstroke highly likely with continued exposure

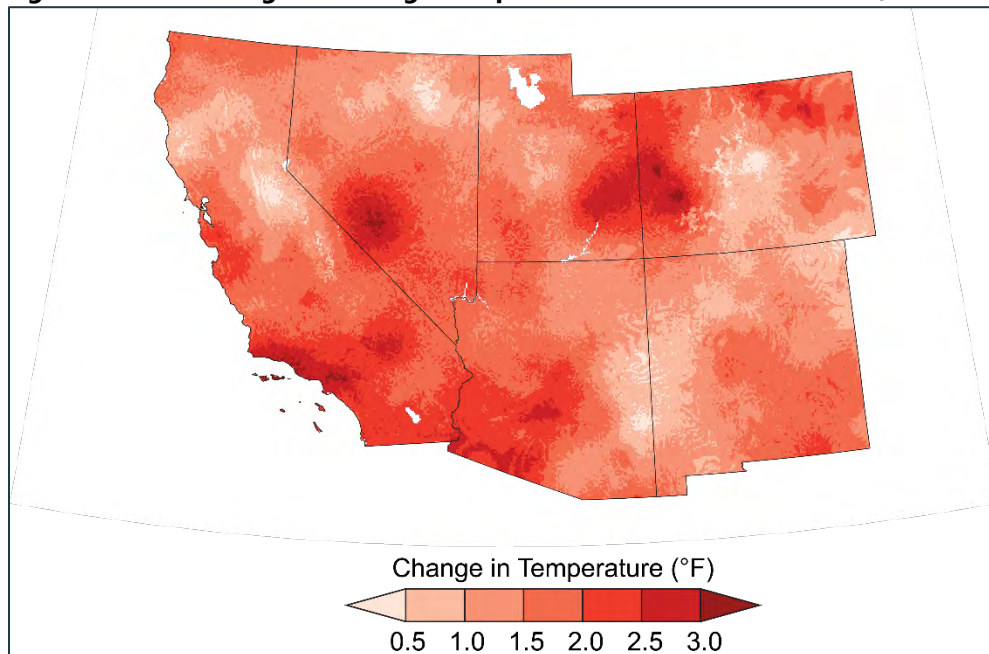
Source: National Weather Service Heat Index Program, www.weather.gov/os/heat/index.shtml

Climate Change Considerations

Current climate change projections suggest that drought conditions may become even more common in the future due to a variety of factors, including higher temperatures and increased evapotranspiration, reduced snowpack from less snowfall and earlier spring melt, and severe soil moisture drought.

Research cited in the Fourth National Climate Assessment indicates that average temperatures have already increased across the Southwest and will likely continue to rise. Figure 4-11 shows the difference between the 1986-2016 average temperature and the 1901-1960 average temperature. This trend toward higher temperatures is expected to continue and would cause more frequent and severe droughts in the Southwest as well as drier future conditions and an increased risk of megadroughts—dry periods lasting 10 years or more. Additionally, current models project decreases in snowpack, less snow and more rain, shorter snowfall seasons, and earlier runoff, all of which may increase the probability of future water shortages (Gonzalez et al., 2018).

Figure 4-11 Change in Average Temperature Across the Southwest, 1901-1960 to 1986-2016

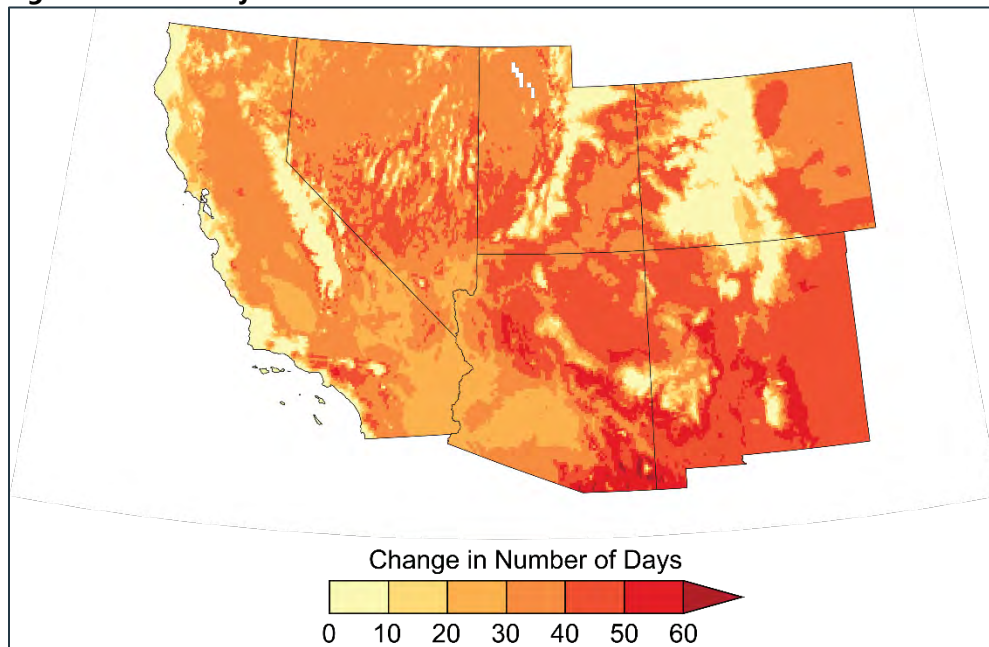


Source: Fourth National Climate Assessment

In conjunction with rising average temperatures and their projected impact on drought, extreme heat is also expected to increase in frequency. Figure 4-12 shows projected increases in extreme heat as an increase in the number of days per year when the temperature exceeds 90°F by the period 2036-2065 compared to the period 1976-2005. Under the high emissions scenario, the number of days of extreme heat would increase in Adams County by 30 to 50 days.



Figure 4-12 Projected Increases in Extreme Heat



Source: Fourth National Climate Assessment

Vulnerability

People

Drought can affect people's physical and mental health. For those economically dependent on a reliable water supply, drought may cause anxiety or depression about economic losses, reduced incomes, and other employment impacts. Adams County has a large agricultural sector that is particularly vulnerable to these impacts. Drought may also cause health problems due to poorer water quality from lower water levels.

Though physical injury or death are not typically a result of drought, extreme heat can cause heat stroke or even fatality. The most dangerous place to be during an extreme heat incident is in a permanent home, with little or no air conditioning. Those most vulnerable to heat-related illness include people 65 years of age and older, young children, people with chronic health problems such as heart disease, people who are obese, people who are socially isolated, and people who are on certain medications. Low income families are less likely to have air conditioning and may be disproportionately impacted by rising water costs. Even young and healthy individuals are susceptible if they participate in strenuous physical activities during hot weather or are not acclimated to hot weather.

Those who are homeless and are limited in their ability to seek shelter from extreme temperatures are also more vulnerable to extreme heat. At the time of the Adams County 2019 Point in Time homelessness assessment, there were an estimated 483 people experiencing homelessness in Adams County, including 139 individuals who were unsheltered and therefore may face greater exposure to extreme heat.

Aside from direct health impacts, in extreme cases of drought, conflicts may arise over water shortages. People may be forced to pay more for water, food, and utilities affected by increased water costs.

General Property

Drought does not have a direct impact on buildings. Developed areas may experience damages to landscaping if water use restrictions are put in place, however these losses are not considered significant.



Exposure of agricultural property to drought is high in Adams County. Per the 2017 Census of Agriculture, there are 905 farms in the county with an estimated market value of \$126,500,000 in crops and livestock. Approximately 309,468 acres, or 44% of the total farm acreage, is covered by crop insurance. According to the USDA RMA, during the 12-year period from 2007-2018, the sum of claims paid for drought in Adams County was \$20,645,594. The 44% crop insurance coverage was factored into this data to estimate total losses of insured and uninsured crops. The adjusted estimate of 12-year drought losses is \$46,921,805. These losses equate to an annualized loss of \$3,910,150 or 3.1% of the total market value.

Critical Facilities and Infrastructure

Buildings and infrastructure are not vulnerable to direct impact from drought; however, critical systems related to water supply can be affected. Decreased water levels in dams can cause structural damage. Low water levels can also affect wildfire protection capability.

Secondary hazards exacerbated by drought, such as wildfire and expansive soils, can cause direct structural impacts on critical facilities and infrastructure.

Prolonged heat exposure can have devastating impacts on infrastructure. Prolonged high heat exposure increases the potential of pavement deterioration, as well as railroad warping or buckling. High heat also puts a strain on energy systems and consumption, as air conditioners are run at a higher rate and for longer. Extreme heat can also reduce transmission capacity over electric systems.

Economy

The main industry to experience the effects of drought is agriculture. Agriculture accounts for only a small percentage of employment in Adams County, but over 94% of all land use. Farmers may face crop losses or increased livestock costs. Businesses that depend on farming may experience secondary impacts.

Extreme drought also has the potential to impact local businesses in landscaping, recreation and tourism, and public utilities.

Historic, Cultural, and Natural Resources

Drought can affect local wildlife by shrinking food supplies and damaging habitats. Sometimes this damage is only temporary, and other times it is irreversible. Wildlife may face increased disease rates due to limited access to food and water. Increased stress on endangered species could cause extinction. Reduced food supply can also drive wildlife into greater proximity with humans. Extreme heat can have similar direct health impacts on natural resources such as plants, wildlife, and livestock.

Drought conditions can also provide a substantial increase in wildfire risk. As plants and trees die from a lack of precipitation, increased insect infestations, and diseases—all of which are associated with drought—they become fuel for wildfire. Long periods of drought can result in more intense wildfires, which bring additional consequences for the economy, the environment, and society. Drought may also increase likelihood of wind and water erosion of soils.

Future Development

Drought vulnerability is likely to be impacted by future development. Public demand for water, which impacts water levels, can exacerbate drought. Adams County has a semi-arid climate, which means precipitation is already limited under normal climate conditions. Per the State's Drought Mitigation and Response Plan, all of Colorado depends on precipitation for its water supply. Additionally, public water supply is or may soon become inadequate for much of Adams County and its incorporated areas, especially in the face of development plans and pressures (Adams County <http://www.adcogov.org/news/h2-ohh%E2%80%A6>, 2019). A 2011 gap analysis done for the Colorado Water Conservation Board, shown in Figure 4-13, indicates that water demand may surpass supply as



soon as 2025 in the South Platte Basin and 2030 in the Metro Basin (CDM, 2011). As the gap between water supply and water demand shrinks, departures from normal hydrologic conditions may be felt more easily in Adams County. Water rights issues further complicate this matter.

Figure 4-13 Water Supply Gap Analysis

Municipal and Industrial Gap and Estimated Beginning Year for 100%, Inter basin Compact Committee (IBCC) Alternative Portfolio (Optimistic), and Status Quo Portfolio (Realistic) Scenarios						
Basin/Area	Gap under 100% Scenario (AF)	Gap Begins	Gap when IPPs at IBCC Alternative Portfolio (Optimistic) Scenario (AF)	Gap Begins	Gap when IPPs at Status Quo Portfolio (Realistic) Scenario (AF)	Gap Begins
South Platte Basin	55,000	2040	110,000	2025	130,000	2025
Metro Basin	66,000	2045	130,000	2030	150,000	2030
Arkansas Basin	54,000	2040	64,000	2035	78,000	2035
Front Range ¹	150,000	2040	270,000	2030	320,000	2030
Colorado Basin	27,000	2040	33,000	2040	33,000	2040
Gunnison Basin	3,600	2045	5,200	2040	5,200	2040
Yampa - White Basin	36,000	2020	37,000	2020	37,000	2020
Southwest Basin	7,600	2040	12,000	2035	12,000	2035
Rio Grande Basin	2,800	2040	3,500	2040	3,500	2040
North Platte Basin	0	2055	0	2050	0	2050
Statewide	250,000	2040	390,000	2030	450,000	2030

1) Front Range includes South Platte Northern, Denver Metro, South Metro, Arkansas Urban Counties

Source: CWCB

Risk Summary

- Annualized crop loss due to drought in Adams County is estimated at \$3,910,150 or 3.1% of the total market value.
- Related hazards: Wildfire

Table 4-25 Drought Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Extensive	Likely	Negligible	Medium
Bennett	Extensive	Likely	Critical	High
Brighton	Extensive	Likely	Negligible	Medium
Commerce City	Limited	Occasional	Negligible	Low
Denver Water	Extensive	Likely	Negligible	Medium

4.3.4 Earthquake

Hazard Description

An earthquake is the motion or trembling of the ground produced by a sudden slip on a fault in the Earth's crust. Stress builds up and rocks slip suddenly, releasing energy in waves that travel through the earth's crust and cause the shaking that is felt during an earthquake. Earthquake seismicity may stem from *triggered* events, meaning that the causes are natural reasons (e.g. tectonic movement, volcanism, ground instability issues such as natural landslides), or *induced* by human activity, such as mining-related explosions or blasting, collapse of mines and caverns, and potentially even extreme changes in aquifer depths attributed to over-pumping water (as has been the case in places like California, with groundwater



depletion, and even here in Colorado, such as with pumping of fluid waste back in the 1960s) (Colorado SHMP, 2018).

Earthquakes can affect large areas of land, cause damage to property measured in the tens of billions of dollars, result in injury or death to hundreds of thousands of persons, and disrupt the social and economic functioning of the affected area. Negative impacts and losses incurred will also depend on secondary effects and hazards such as dam failure, wildfire, seiches, avalanche, and land subsidence. The severity of earthquakes is site-specific and influenced by proximity to the earthquake epicenter and soil type (including liquefaction potential), among other factors.

Liquefaction occurs when ground shaking causes the mechanical properties of some fine grained, saturated soils to liquefy and act as a fluid (liquefy). It is the result of a sudden loss of soil strength due to a rapid increase in soil pore water pressures caused by ground shaking. In order for liquefaction to occur, three general geotechnical characteristics should be present: 1) ground water should be present within the potentially liquefiable zone, 2) the potentially liquefiable zone should be granular and meet a specific range in grain-size distribution, and 3) the potentially liquefiable zone should be of low relative density. If those criteria are present and strong ground motion occurs, then those soils could liquefy. Liquefaction that produces surface effects generally occurs in the upper 40 to 50 feet of the soil column, although the phenomenon can occur deeper than 100 feet. The duration of ground shaking is also an important factor in causing liquefaction to occur. The larger the earthquake magnitude, and the longer the duration of strong ground shaking, the greater the potential there is for liquefaction to occur.

Most earthquakes are caused by the release of stresses accumulated as a result of the rupture of rocks along opposing fault planes in the Earth's outer crust. These fault planes are typically found along borders of the Earth's 10 tectonic plates. These plate borders generally follow the outlines of the continents, with the North American plate following the continental border with the Pacific Ocean in the west but following the mid-Atlantic trench in the east. As earthquakes occurring in the mid-Atlantic trench usually pose little danger to humans, the greatest earthquake threat in North America is along the Pacific Coast. The areas of greatest tectonic instability occur at the perimeters of the slowly moving plates because these locations are subjected to the greatest strains from plates traveling in opposite directions and at different speeds.

Geographic Location

The geographic coverage potential of this hazard in Adams County is **Limited**. Faults with capacity for large magnitude seismic events are located in central and western Colorado, so the northeastern portion of the state where Adams County's boundaries are has lower earthquake activity potential. Thousands of faults have been mapped in Colorado, but scientists believe only about 90 of these were active in the past 1.6 million years.

The location of historic epicenters, Quaternary faults, and hazard potential in terms of peak ground acceleration potential in Adams County are displayed in Figure 4-14 and Figure 4-15 below. Quaternary faults are those recognized to have moved in the past 1,600,000 or so years, during a portion of the quaternary geologic epoch (more details on faults and geologic periods in the following bullets). Peak ground acceleration is used to portray relative ground motion of seismic activity, and it represents the maximum ground acceleration which took place during an earthquake shaking event at the mapped location.

Faults are classified based on the geologic time frame of their latest suspected movement (in order of activity occurrence, with the most recent is listed first):

- H—Holocene (within past 15,000 years)

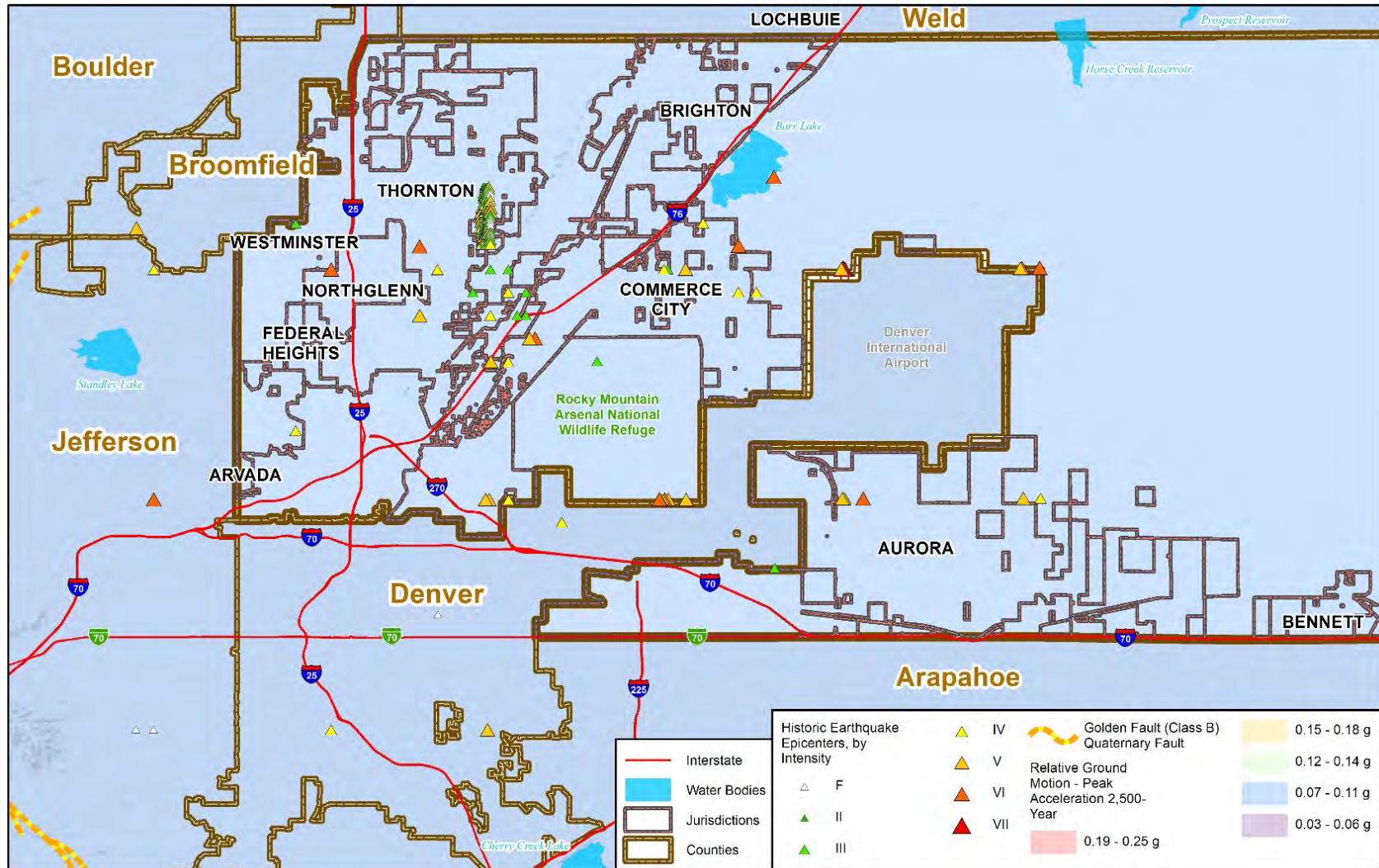


- LQ—Late Quaternary (15,000-130,000 years)
- MLQ—Middle to Late Quaternary (130,000 - 750,000 years)
- Q—Quaternary (approximately past 1.6-2 million years)
- LC—Late Cenozoic (approximately past 23.7 million years)

As portrayed in the map below, the only quaternary fault located nearby Adams County is the Golden Fault. This fault is about 10 miles south-southwest of the county and crosses the Interstate 70 highway in a north-south fashion. This fault is a west-dipping, high-angle, range-front thrust fault, and forms the east flank of the Front Range near the City of Golden in Jefferson County. It was last active around 23.03 million years ago. ([USGS, 1998](#)).



Figure 4-14 Earthquake Faults, History, and Hazard Potential in or Near West Adams County

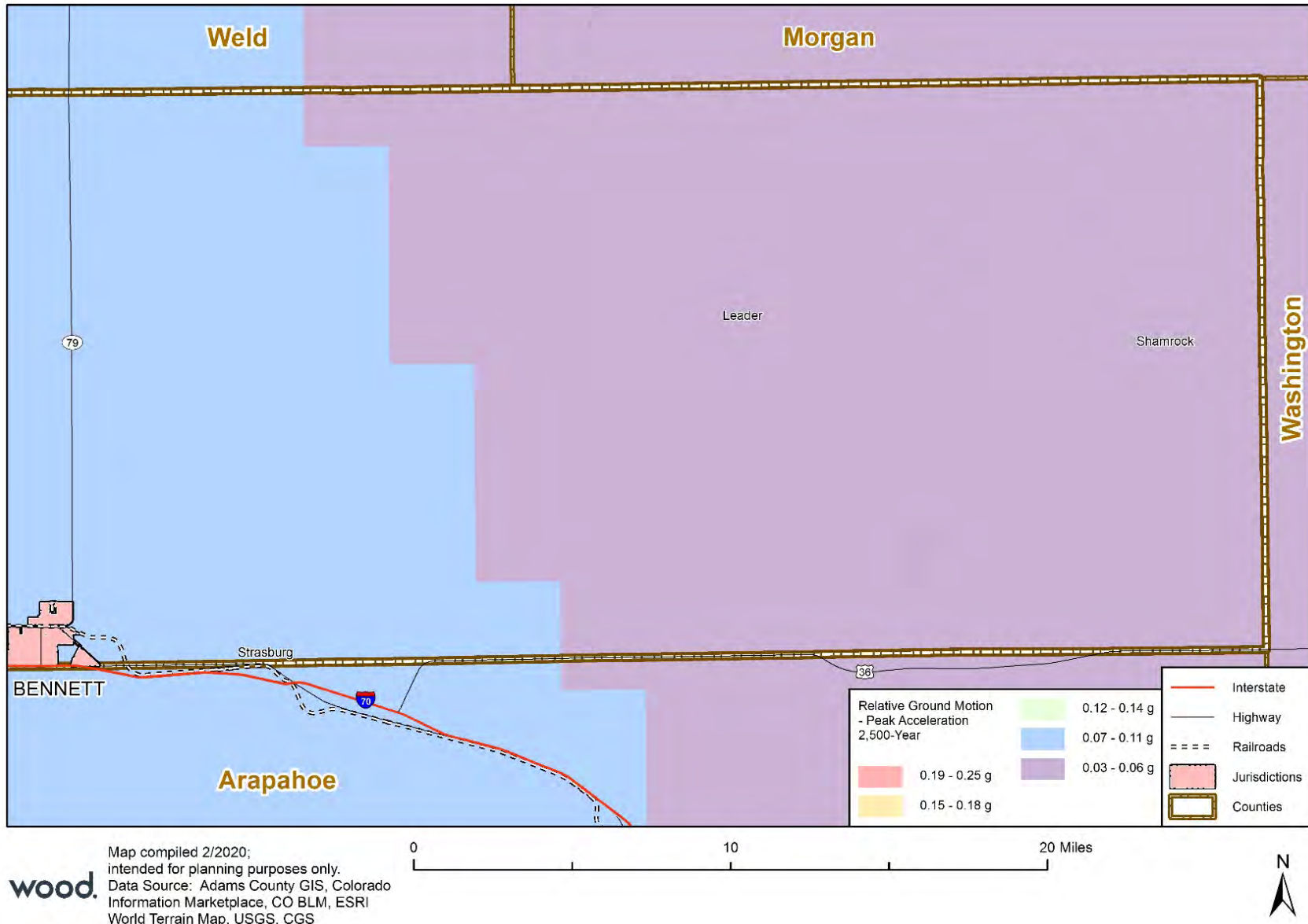


Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace, CO BLM,
ESRI, World Terrain Map, USGS, CGS

0 10 20 Miles



Figure 4-15 Earthquake Faults, History, and Hazard Potential in or Near East Adams County



Previous Occurrences

Hundreds of earthquake tremors of magnitude 2.5 or higher have been recorded in Colorado since 1867. High magnitude earthquakes have only occurred a few times in the last 150 years. A list of Colorado's larger earthquakes can be found on the most recent State Hazard Mitigation Plan, updated in 2018. In addition, Adams County's earthquake event history is unique since it has often been triggered by human-caused activity. In the 1960s there was a project by the U.S. Army Corps of Engineers where injection of contaminated wastewater took place into the Precambrian crystalline bedrock underneath the Rocky Mountain Arsenal (now a wildlife refuge). This waste fluid matter pumping, which was drilled to a depth of over 3,600 meters, led to critical pressure buildup which in turn triggered quakes in the area shortly after. From April of 1962 until August of 1967 there were an estimated 1,500+ recorded earthquakes recorded at the Bergen Park seismograph station. Many of these quakes surpassed Richter magnitudes of 3 and 4, and three exceeded magnitude 5.

In large part due to the Rocky Mountain Arsenal earthquakes, historical earthquake activity for Adams County is above the average occurrence in Colorado. Figure 4-14 above shows earthquake epicenter locations available from the Colorado Geological Survey (CGS), in and around Adams County. As displayed with the numerous intensity-rated triangles on the western portion of the county, especially around southern Thornton, Commerce City, Northglenn, and parallel to Interstate 70 to the north, there have been many low- or moderately-ranked intensity earthquakes in Adams County, with magnitudes ranging from 1.6 to 5.3. (For additional details on the magnitude, intensity, and felt effects of earthquakes refer to the Magnitude/Severity subsection of this chapter.) Per the epicenter map above, there have been 198 earthquake epicenters within the boundaries of Adams County since 1962, with the majority located north-northeast of Denver. However, the most recent earthquakes in or around Adams County took place on November 8, 1989 and February 25, 1984; these were registered as 2.5 magnitude events.

Adams County has had five recorded earthquakes greater than magnitude 4.8. All five were associated with the Rocky Mountain Arsenal groundwater injection described above.

- 11/27/1967 (Magnitude 5.2)
- 8/9/1967 (Magnitude 5.3)
- 4/10/1967 (Magnitude 4.9)
- 1/5/1966 (Magnitude 5.0)
- 2/16/1965 (Magnitude 4.9)

Probability of Future Occurrence

Future probability of this hazard is **Occasional**. Although on average several earthquakes are expected to occur in the state and in the Adams County area, they are likely to be of smaller magnitude and hence unlikely to be felt or even lead to damages or injured populations. A 5+ magnitude quake could be expected near or in Adams County once or twice per decade based on historic records.

Probabilistic ground motion maps are typically used to assess the magnitude and frequency of seismic events. These maps measure the probability of exceeding a certain ground motion, expressed as percent Peak Ground Acceleration (%PGA), over a specified period of years. Figure 4-14 also shows levels of horizontal shaking that have a 2% chance of being exceeded in a 50-year period.

The blue shaded areas on western Adams County indicate the risk of shaking from an earthquake relates to the range of 0.07 to 0.11% G (gravitational force), with the eastern county portion falling in the lowest category of relative ground motion potential at 0.03-0.06% G. Overall, this means Adams County's risk based on the relative ground motion potential falls within the lower two ranges of recorded values.

Based on all documented events since the year 1962, the probability of future occurrences of small magnitude earthquakes within Adams County is high, though larger and damaging event probability is rather low. It is however extremely difficult to determine probability of future occurrence in a specific area within the county with any degree of accuracy, though as demonstrated in Figure 4-14 and Figure 4-15 with the relative ground motion probability map, the western portion of the county is more likely to experience seismic activity and quakes than the eastern portion in the future. In addition, Table 4-26 under the Magnitude/Severity subsection below describes some useful attributes tied to intensity and magnitude that can be expected with regards to frequency in earthquake occurrence.

Magnitude/Severity

The potential magnitude/severity of earthquake hazards in Adams County is **Limited**, based on the estimation of potential damaged or destroyed property, mass fatalities, impact to critical lifelines, and the impact to the county's government ability to provide service or respond to an event due to seismic activity/earthquakes.

Earthquakes are measured in terms of their magnitude and intensity, but other helpful characteristics used to describe and categorize them include the effects felt on people and property, and the frequency of occurrence. *Magnitude* is measured using the Richter Scale, an open-ended logarithmic scale that describes the energy release of an earthquake through a measure of shock wave amplitude (Table 4-26). Each unit increase in magnitude on the Richter Scale corresponds to a 10-fold increase in wave amplitude, or a 32-fold increase in energy. *Intensity* is most commonly measured using the Modified Mercalli Intensity (MMI) Scale based on direct and indirect measurements of seismic effects. This scale's levels are typically described using Roman numerals in increasing order based on destruction potential (from less catastrophic to most catastrophic). More detailed descriptions of the MMI Scale of earthquake intensity and correspondence to the Richter Scale, as well as descriptions of effects and frequency intervals are given in Table 4-26 below.

Table 4-26 Earthquake Magnitude, Intensity Measurements, and Associated Characteristic

Richter Magnitude	MMI	Description of Effects	Frequency
Less than 2.0	I	Microearthquakes, not felt or rarely felt; recorded by seismographs.	Continual
2.0-2.9	I to II	Felt slightly by some people; damages to buildings.	Over 1M per year
3.0-3.9	II to IV	Often felt by people; rarely causes damage; shaking of indoor objects noticeable.	Over 100,000 per year
4.0-4.9	IV to VI	Noticeable shaking of indoor objects and rattling noises; felt by most people in the affected area; slightly felt outside; generally, no to minimal damage.	10K to 15K per year
5.0-5.9	VI to VIII	Can cause damage of varying severity to poorly constructed buildings; at most, none to slight damage to all other buildings. Felt by everyone.	1K to 1,500 per year
6.0-6.9	VII to X	Damage to a moderate number of well-built structures in populated areas; earthquake-resistant structures survive with slight to moderate damage; poorly designed structures receive moderate to severe damage; felt in wider areas; up to hundreds of miles/kilometers from the epicenter; strong to violent shaking in epicentral area.	100 to 150 per year
7.0-7.9	VIII<	Causes damage to most buildings, some to partially or completely collapse or receive severe damage; well-designed structures are likely to receive damage; felt across great distances with major damage mostly limited to 250 km from epicenter.	10 to 20 per year
8.0-8.9	VIII<	Major damage to buildings, structures likely to be destroyed; will cause moderate to heavy damage to sturdy or earthquake-resistant buildings; damaging in large areas; felt in extremely large regions.	One per year
9.0 and Greater	VIII<	At or near total destruction - severe damage or collapse to all buildings; heavy damage and shaking extends to distant locations; permanent changes in ground topography.	One per 10-50 years

Source: USGS



The destructiveness of an earthquake depends on a number of factors, including the magnitude of the tremor, direction of the fault, distance from the epicenter, regional geology, and the design characteristics of buildings and infrastructure. As stated in the 2014 hazard mitigation plan, Adams County considers a Modified Mercalli Intensity Scale of III to be a minimum severity and a Modified Mercalli Intensity Scale of VI to be a major severity.

Ground shaking can lead to the collapse of buildings and bridges and disrupt gas lines, electricity, and phone service. Most property damage and earthquake-related deaths are caused by the failure and collapse of structures due to ground shaking. The level of damage depends upon the amplitude and duration of the shaking, which are directly related to the earthquake size, distance from the fault, site, and regional geology. Death, injuries, and extensive property damage are possible vulnerabilities from this hazard. Some secondary hazards caused by earthquakes in the Adams County area may include fire, hazardous material release, landslides, ground subsidence, flash flooding, and dam failure.

The age of older historic buildings and infrastructure would probably make damages in an earthquake above magnitudes 5.5 devastating in terms of the economy and the structures of the area. Earthquakes of a magnitude above 5.5 might threaten dams, with potentially severe impacts to communities downstream. They could also cause some dislocation of Front Range communities due to the loss of water (principal owners of the stored water). The costs of engineering studies on each of the buildings in the area would probably overwhelm building owners who are beset by tightening economies and increasing costs.

Climate Change Considerations

Although climate change is not expected to affect earthquake frequency or intensity, it could exacerbate indirect or secondary impacts of quake activity. For example, since climate change could increase the frequency and intensity of extreme precipitation events, this may then lead to higher probabilities of landslides and liquefaction events during an earthquake if the earthquake coincided with a wet cycle. Another secondary way in which climate change may influence earthquake indirectly has to do with wildfires. Since utility lines and other infrastructure breaking, bursting, or causing explosions after earthquake activity can lead to wildfires, a warmer and dryer climate could exacerbate these potential after-earthquake fires if weather and environmental conditions are prime for fires quickly starting, spreading, and intensifying.

Vulnerability

This section offers specifics on loss estimation potential to life, property, critical facilities/infrastructure, the economy, historical/natural/cultural resources, and potential future development in Adams County. These loss estimations are based on a 2,500-year probabilistic earthquake scenario performed using FEMA's Hazus 4.2 software. The Hazus loss estimation program was used as part of this mitigation plan's update in 2019-2020 to further quantify the earthquake damage potential in Adams County. The 2,500-year scenario takes into account worst-case ground shaking from a variety of seismic sources.

Hazus is a GIS based, standardized, nationally applicable multi-hazard loss estimation methodology and software. Local, state and federal government officials use Hazus for preparedness, emergency response, and mitigation planning. A Level 1 Hazus analysis was performed for the following vulnerability assessment, which estimates damage based on an inventory database compiled at a national level aggregated to by Census Tracts. The International Building Code uses this level of ground shaking for building design in seismic areas. Note that this version of Hazus (4.2) provides estimates based on U.S. Census data from 2010, and so the mentioned structure inventory or population results are likely off based on today's actual estimates. Therefore, and as with any model, there are uncertainties in the resulting data; results should be considered approximate for planning purposes.



People

The model estimates that 235 households will be displaced due to the earthquake, with 170 people seeking temporary shelter in public shelters.

Hazus also estimates the number of people that will be injured and killed by the earthquake scenario modeled. Ground movement during an earthquake is seldom the direct cause of death or injury. Most earthquake-related injuries result from collapsing walls, flying glass, and falling objects as a result of the ground shaking, or people trying to move more than a few feet during the shaking. The casualties are broken down into four severity levels that describe the extent of the injuries. The levels are as follows:

- Severity Level 1: Injuries will require medical attention, but hospitalization is not needed.
- Severity Level 2: Injuries will require hospitalization but are not considered life-threatening.
- Severity Level 3: Injuries will require hospitalization and can become life threatening if not promptly treated.
- Severity Level 4: Victims are killed by the earthquake.

The casualty estimates are provided for three times of day: 2:00 AM, 2:00 PM and 5:00 PM. These times represent several periods of the day when different sectors of the community are at their peak occupancy loads. The 2:00 AM estimate considers that the residential occupancy load is at its maximum (i.e. most people are asleep at home). The 2:00 PM estimate considers that the educational and business sector loads, including commercial and industrial occupancies, are at their maximum (i.e. schools in session and office or other personnel working during the standard workweek). The 5:00 PM estimate represents peak commute time (i.e. in transit populations via cars and other transportation mediums). These estimates report that 1 or more casualties in all the three scenarios would be expected, and risk to populations would be highest from a 2 p.m. modeled scenario (as this scenario yields 129 minor injuries, 17 hospitalizations, 1 life-threatening injury, and 2 deaths). The casualty estimates are summarized in Table 4-27 below, with the most damaging scenario in terms of injuries and casualties enclosed in a red rectangle.



Table 4-27 Hazus Earthquake Injury and Casualty Estimates

		Level 1	Level 2	Level 3	Level 4
2 AM	Commercial	1.45	0.20	0.02	0.03
	Commuting	0.00	0.00	0.00	0.00
	Educational	0.00	0.00	0.00	0.00
	Hotels	0.00	0.00	0.00	0.00
	Industrial	2.02	0.25	0.02	0.03
	Other-Residential	26.49	2.85	0.10	0.19
	Single Family	51.87	5.92	0.41	0.78
	Total	82	9	1	1
2 PM	Commercial	81.41	11.05	0.86	1.65
	Commuting	0.00	0.00	0.00	0.00
	Educational	18.09	2.38	0.18	0.34
	Hotels	0.00	0.00	0.00	0.00
	Industrial	14.79	1.86	0.12	0.22
	Other-Residential	5.06	0.55	0.02	0.04
	Single Family	9.18	1.09	0.08	0.15
	Total	129	17	1	2
5 PM	Commercial	57.66	7.88	0.62	1.18
	Commuting	0.02	0.02	0.04	0.01
	Educational	1.23	0.16	0.01	0.02
	Hotels	0.00	0.00	0.00	0.00
	Industrial	9.25	1.16	0.07	0.14
	Other-Residential	9.69	1.06	0.04	0.07
	Single Family	19.98	2.36	0.17	0.32
	Total	98	13	1	2

Source: Hazus 4.2, Wood analysis

The impacts of earthquakes on vulnerable populations can be more severe. Comparing the earthquake maps in this section with the social vulnerability maps in Section 2-5 shows that many of the areas at greatest risk of earthquake also have higher social vulnerability stemming from socioeconomic status, household composition and disabilities, minority status and language proficiency, or housing and transportation resources. Families in this area may have fewer financial resources to prepare for or recover from an earthquake, and may be more likely to be uninsured or



underinsured. Poorer families are more likely to live in poorly constructed homes that are more likely to be damaged. Individuals with disabilities may need more assistance after an earthquake, especially if transportation or utility services are disrupted.

General Property

Figure 4-16 and Figure 4-17 displays the Hazus-derived total losses based on the Adams County census tracts. Potential for the highest losses is just north of Denver, in the unincorporated census tract between Interstate-76 and Interstate-270 east of Arvada, crossed by Clear Creek and the South Platte River, as well as in the tract crossed by of I-270, north of I-70 by Sand Creek. Other areas where larger damages would be expected include southern Adams County west of Aurora along the I-70 corridor; just east of Arvada in the unincorporated southern portion of the county (just north of Denver); and in the tract along the fringe of Thornton and Westminster, to the east of I-25. The rest of the county would expect damages at the census tract level amounting to \$10 million or less. Table 4-28 summarizes the scenario results for Adams County based on the various assets assessed.

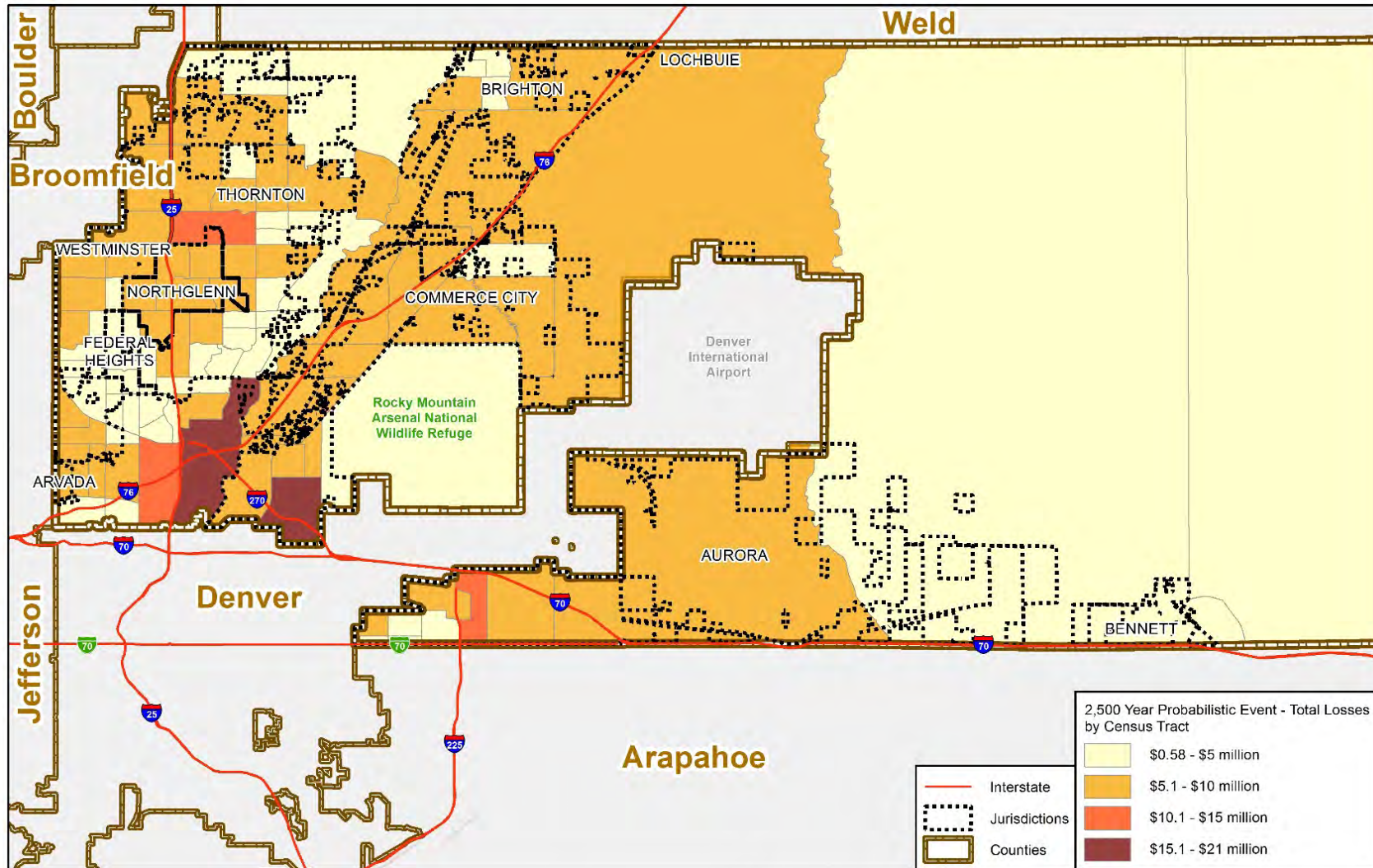
Table 4-28 Earthquake Loss Estimates in Adams County Based on the 2,500-Year Hazus Scenario

Type of Impact	Hazus-Derived Impacts to County
Total Buildings Damaged (out of 138,000 estimated buildings in the county)	Slight: 12,196 Moderate: 4,776 Extensive: 668 Complete: 29
Building and Income Related Losses	\$529.61 million 64% of damage related to residential structures 16% of loss due to business interruption
Total Economic Losses (includes building, income and lifeline/critical facility losses)	\$568.5 million
Casualties (based on 2 a.m. time of occurrence)	Not requiring hospitalization (Level 1): 82 Requiring hospitalization (Level 2): 9 Life threatening (Level 3): 1 Fatalities (Level 4): 1
Casualties (based on 2 p.m. time of occurrence)	Not requiring hospitalization (Level 1): 129 Requiring hospitalization (Level 2): 17 Life threatening (Level 3): 1 Fatalities (Level 4): 2
Casualties (based on 5 p.m. time of occurrence)	Not requiring hospitalization (Level 1): 98 Requiring hospitalization (Level 2): 13 Life threatening (Level 3): 1 Fatalities (Level 4): 2
Damage to Transportation Systems	\$3.91 million in economic losses to transportation systems
Damage to Essential Facilities	No damages categorized as moderate or worse to essential facilities. Facilities include hospitals, schools, Emergency Operation Centers, Police Stations, and Fire Stations
Damage to Utility Systems	\$34.96 million in economic losses to utility systems (from potable water, wastewater, natural gas, and communication components)
Households without Power/Water Service (Based on 153,764 Total Households)	No households without power or water service after event
Expected Utility System Pipeline Damages	71 Leaks and 18 Breaks on Potable Water Pipelines 36 Leaks and 9 Breaks on Wastewater Pipelines 12 Leaks and 3 Break on Natural Gas Pipelines 0 Leaks and 0 Breaks on Oil Pipelines
Displaced Households	235
Persons Seeking Temporary Shelter	170
Debris Generation	137,000 tons

Source: Wood analysis with FEMA Hazus 4.2 for Earthquake



Figure 4-16 West Adams County Hazus 2,500-Year Probabilistic Earthquake Scenario – Total Losses by Census Tract



Map compiled 2/2020; intended for planning purposes only.
 Data Source: Adams County GIS, Colorado Information Marketplace, CO BLM, ESRI World Terrain Map, FEMA Hazus 4.2

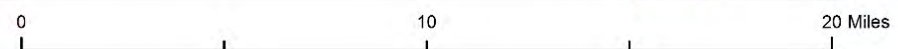
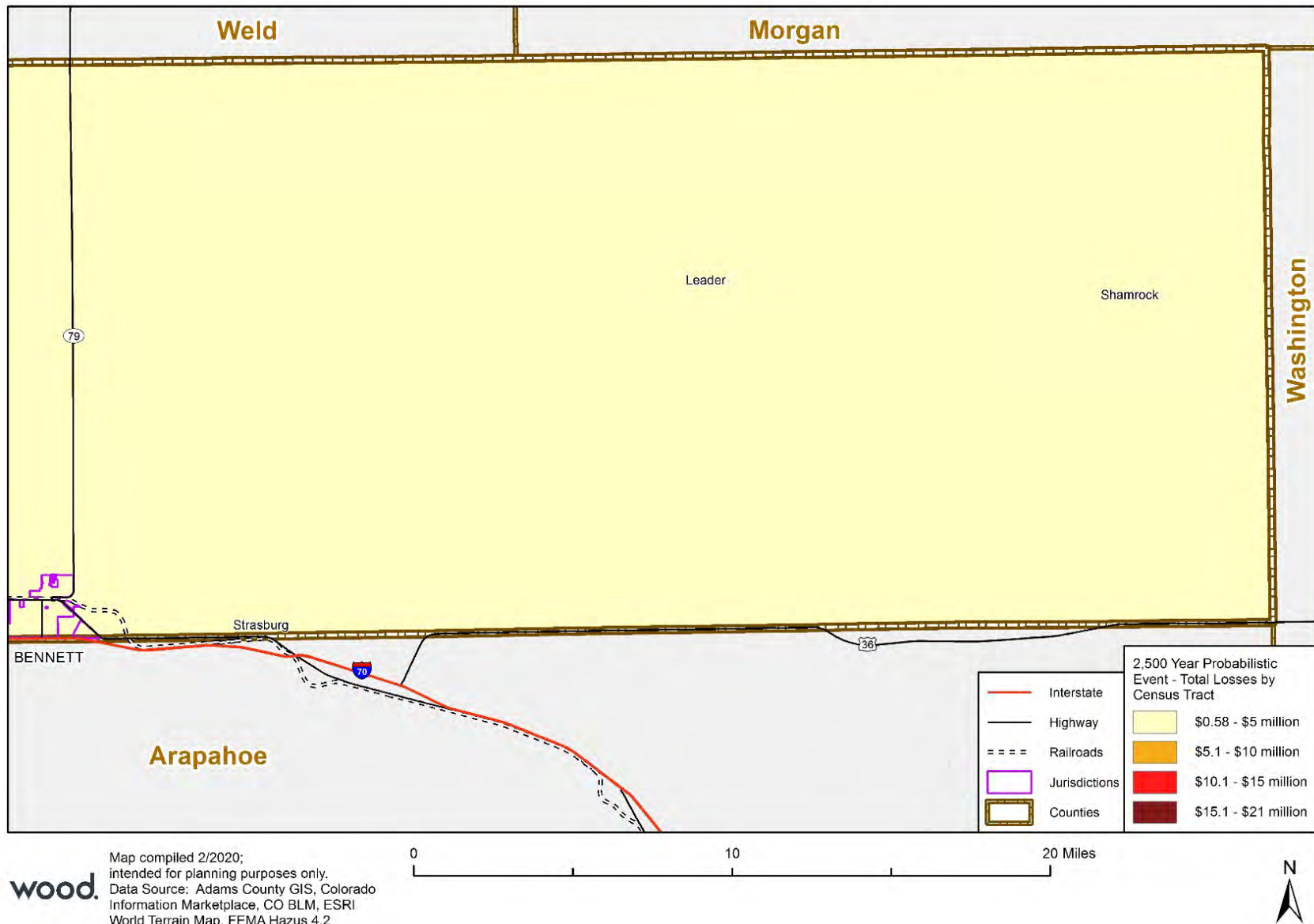


Figure 4-17 East Adams County Hazus 2,500-Year Probabilistic Earthquake Scenario – Total Losses by Census Tract



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS, Colorado
Information Marketplace, CO BLM, ESRI
World Terrain Map, FEMA Hazus 4.2



The results of the earthquake scenario analysis show moderate damages and losses, especially with regards to economic losses from loss of income, and damaged buildings, lifelines, or critical facilities.

According to this probabilistic scenario, the majority of properties affected are expected to be residential in nature (about 64% of the total number of buildings damaged across the county), followed by Commercial, Industrial, and Others (Religion-Related, Agricultural, Education, and Government structures).

Building codes reduce the risk of structural damage, especially when considering potential impacts from earthquakes which heavily test building safety and integrity, particularly older structures constructed with materials like wood and masonry. Historic buildings constructed of unreinforced masonry are most vulnerable to seismic ground shaking, though based on the Hazus analysis, Adams County's buildings made of wood, manufactured housing materials, and reinforced masonry are the top three categories that will see the highest damages. Jurisdictions most vulnerable to seismic events will likely be those with many historic or older buildings (such as Arvada, which was established in 1870) not retrofitted or mitigated to sustain ground shaking.

Critical Facilities and Infrastructure

General Critical Facility Inventory: Hazus breaks critical facilities into several groups. For the purposes of this particular scenario, the following types of facilities will be discussed: essential facilities, transportation systems, and utility system lifelines.

Essential Facility Damage: Essential facilities include hospitals (4 in the county), schools (152 in the county), fire stations (15 in the county), police stations (10 in the county). The model did not result in any expected damages to emergency operation center facilities from the earthquake event.

Transportation Systems Inventory: There are 7 transportation systems that include highways, railways, light rail, bus, ports, ferry, and airports; the replacement value for this critical facility category would be around \$4.38 billion. This inventory includes over 349 miles of highways and 467 bridges. The transportation systems inventory related expected damages from the earthquake would be moderate, at \$3.91 million. More details are summarized in Table 4-29 below.

Utility Lifeline Systems Inventory: There are 6 utility systems that include over 13,527 linear miles of the following: potable water, wastewater, natural gas, crude & refined oil, electric power, and communications lines. The replacement value of the utility lifeline systems is estimated to be \$1.35 billion. These utility system facility damages in terms of economic losses in millions of dollars are summarized in Table 4-30. Site specific expected utility system pipeline damages (including their inventory) are included in Table 4-31. The model did not predict potable water or electric power system performance limitations or damages that could affect household availability post-earthquake.



Table 4-29 Transportation System Economic Losses in Millions of Dollars

System	Component	Inventory Value	Economic Loss	Loss Ratio (%)
Highway	Segments	3319.7232	0.0000	0.00
	Bridges	759.9167	0.2033	0.03
	Tunnels	0.0000	0.0000	0.00
	Subtotal	4079.6399	0.2033	
Railways	Segments	187.4375	0.0000	0.00
	Bridges	1.9089	0.0000	0.00
	Tunnels	0.0000	0.0000	0.00
	Facilities	23.9670	2.6372	11.00
	Subtotal	213.3134	2.6372	
Light Rail	Segments	0.0000	0.0000	0.00
	Bridges	0.0000	0.0000	0.00
	Tunnels	0.0000	0.0000	0.00
	Facilities	0.0000	0.0000	0.00
	Subtotal	0.0000	0.0000	
Bus	Facilities	1.0573	0.1215	11.49
	Subtotal	1.0573	0.1215	
Ferry	Facilities	0.0000	0.0000	0.00
	Subtotal	0.0000	0.0000	
Port	Facilities	0.0000	0.0000	0.00
	Subtotal	0.0000	0.0000	
Airport	Facilities	10.6510	0.9443	8.87
	Runways	75.9280	0.0000	0.00
	Subtotal	86.5790	0.9443	
	Total	4,380.59	3.91	

Source: Hazus 4.2, Wood analysis



Table 4-30 Utility System Economic Losses in Millions of Dollars

System	Component	Inventory Value	Economic Loss	Loss Ratio (%)
Potable Water	Pipelines	0.0000	0.0000	0.00
	Facilities	32.3010	1.5474	4.79
	Distribution Lines	217.7121	0.3196	0.15
	Subtotal	250.0131	1.8670	
Waste Water	Pipelines	0.0000	0.0000	0.00
	Facilities	323.0100	13.4388	4.16
	Distribution Lines	130.6273	0.1605	0.12
	Subtotal	453.6373	13.5993	
Natural Gas	Pipelines	0.0000	0.0000	0.00
	Facilities	23.2606	0.5796	2.49
	Distribution Lines	87.0848	0.0550	0.06
	Subtotal	110.3454	0.6346	
Oil Systems	Pipelines	0.0000	0.0000	0.00
	Facilities	0.9700	0.0473	4.88
	Subtotal	0.9700	0.0473	
Electrical Power	Facilities	533.5000	18.7840	3.52
	Subtotal	533.5000	18.7840	
Communication	Facilities	0.7760	0.0311	4.01
	Subtotal	0.7760	0.0311	
	Total	1,349.24	34.96	

Source: Hazus 4.2, Wood analysis



Table 4-31 Expected Utility System Pipeline Damage (Site Specific)

System	Total Pipelines Length (miles)	Number of Leaks	Number of Breaks
Potable Water	6,764	71	18
Waste Water	4,058	36	9
Natural Gas	2,706	12	3
Oil	0	0	0

Source: Hazus 4.2, Wood analysis

Economy

Hazus estimates the long-term economic impacts to the county post-earthquake. The model quantifies this information in terms of income and employment changes within the county. The total economic loss from the earthquake is estimated at \$568.5 million, which includes building and lifeline related losses based on the county’s available inventory.

Building losses are broken into two categories: direct building losses and business interruption losses. Building related losses, which summarize estimates costs to fix or replace structures and damages to properties and their contents, are discussed in more detail in the General Property section of this chapter. The estimated losses related to the business interruption of the area (Adams County) were 16% of the specific building-related losses (which amounted to \$529.6 million).

Business interruption losses are summarized in more detail below (Table 4-32). They included the temporary living expenses (relocation based) for people displaced from their homes because of the earthquake event. Income losses amounted to \$20.2 million, while capital stock losses were about \$137.9 million.

Table 4-32 Business-Related Economic Loss Estimates in Millions of Dollars

Category	Area	Single Family	Other Residential	Commercial	Industrial	Others	Total
Income Losses							
	Wage	0.0000	0.4791	2.4024	0.0567	0.1285	3.0667
	Capital-Related	0.0000	0.2046	2.6416	0.0325	0.0205	2.8992
	Rental	1.3176	2.5060	1.3641	0.0219	0.0670	5.2766
	Relocation	4.6824	1.8602	1.8583	0.1846	0.3717	8.9572
	Subtotal	6.0000	5.0499	8.2664	0.2957	0.5877	20.1997
Capital Stock Losses							
	Structural	7.3938	3.8863	2.2381	0.3904	0.3945	14.3031
	Non_Structural	31.1578	30.9373	7.5005	1.6805	1.3107	72.5868
	Content	13.4901	10.0959	4.8520	1.0866	0.9116	30.4362
	Inventory	0.0000	0.0000	0.1274	0.2028	0.0168	0.3470
	Subtotal	52.0417	44.9195	14.7180	3.3603	2.6336	117.6731
	Total	58.04	49.97	22.98	3.66	3.22	137.87

Source: Hazus 4.2, Wood analysis



Historic, Cultural, and Natural Resources

Earthquake effects on the environment, natural resources, and historic and cultural assets could be very destructive depending on the actual type of seismic activity experienced and secondary/cascading effects from seismic activity (e.g. wildfire). The biggest impacts would likely be on older historic properties and facilities in older cities such as Arvada and Westminster, which may contain vulnerable structures built out of wood, unreinforced masonry, or manufactured housing materials. However, it is worth noting that only a small portion of Arvada and Westminster actually falls within Adams County boundaries, so vulnerabilities may not be as pronounced within the planning area examined in this plan.

Future Development

All participating jurisdictions within the County have adopted either building codes or some sort of design and construction standards to ensure structural stability and the longevity of the built environment as exposed to natural hazards. Adams County enforces the 2018 International Building Codes; Commerce City, Brighton, and Bennett have adopted the 2012 International Building Codes. As previously stated, building codes substantially reduce the potential for loss of life from earthquakes, helping to reduce the amount of damages to future structures by introducing strict requirements, which indirectly safeguard the populations in or near those structures. Continued growth of population in the County could potentially expose more people to earthquakes and their related hazards, though again this hazard was deemed to pose an overall Low Significance in the county.

Risk Summary

- The overall significance of this earthquake hazard is Low.
- There have been 198 earthquake epicenters within the boundaries of Adams County since 1962, with the majority located north-northeast of Denver. However, the majority of these were quite small in terms of intensity.
- The Hazus 2,500-year probabilistic scenario assessment conducted to estimate Adams County's earthquake vulnerability yielded the following:
 - Total economic losses would be around \$568.5 million
 - At least 5,473 buildings would be at least moderately damaged.
 - Building- and income-related losses in the county would amount of \$529.6 million
 - The most destructive scenario modeled in terms of injuries and casualties to people would be the 2 p.m. scenario, with a total of 149 people affected.
 - The model estimates that 235 households would be displaced due to earthquake activity, with 170 persons seeking temporary shelter.
 - The damages to transportation systems would equal \$3.91 million; damages to essential facilities would not be expected; and, damages to utility systems would amount to \$34.96 million
 - An estimated 137,000 tons of debris would be generated with this earthquake event.
- Related hazards: wildfire, dam failure/incident, flood, hazardous material incident, subsidence.



Table 4-33 Earthquake Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Limited	Occasional	Limited	Low
Bennett	Limited	Occasional	Limited	Low
Brighton	Limited	Occasional	Limited	Low
Commerce City	Limited	Occasional	Limited	Low
Denver Water	Limited	Occasional	Limited	Low

4.3.5 Flood

Hazard Description

Floods involve inundation of normally dry land or other areas. Common types of flooding applicable to Adams County include riverine flooding, localized or flash flooding (including storm generated flash floods), stormwater drainage flooding, and dam or levee failure inundation (see Section 4.3.2).

Floods can cause substantial damage to structures, landscapes, and utilities as well as cause life safety issues. Certain related health hazards are also common to flood events. Standing water and wet materials in structures can become breeding grounds for microorganisms such as bacteria, mold, and viruses. This can cause disease, trigger allergic reactions, and damage materials long after the flood. When flood waters contain sewage or decaying animal carcasses, infectious disease becomes a concern. Direct impacts to populations such as drowning can be limited with adequate warning and public education about what to do during floods. Where flooding occurs in populated areas, warning and evacuation will be of critical importance to reduce life and safety impacts.

Riverine flooding is defined as when a watercourse exceeds its “bank-full” capacity, and is usually the most common type of flood event in Colorado. Riverine flooding generally occurs as a result of prolonged rainfall, or rainfall that is combined with soils already saturated from previous rain events. It also occurs as a result from snowmelt, in which case the extent of flooding depends on the depth of winter snowpack and spring weather patterns.

A change in environmental conditions or land uses can create localized flooding problems inside and outside of natural floodplains by altering or confining natural drainage channels (e.g. leading to flash flooding). These changes are most often created by human activity in developed areas, but can also be created by other natural events such as wildland fires which cause compound effects. For example, wildfires create hydrophobic soils, a hardening or “glazing” of the earth’s surface that prevents rainfall from being absorbed into the ground, thereby increasing runoff, erosion, and downstream sedimentation of channels.

Flash flooding events can occur from sudden intense storms, a dam or levee failure, or from a rapid release of water held by an ice jam or snowmelt. Most flash flooding is caused by slow-moving thunderstorms in a local area or by heavy rains associated with hurricanes and tropical storms. Flash flooding occurs most often in Adams County around urbanized areas where much of the ground is covered by impervious surfaces. Flash floodwaters move at very high speeds due to the sudden rush of water, leading to “walls” of water which can reach heights of 10 to 20 feet. Flash floodwaters and the accompanying debris can uproot trees, roll boulders, and damage or destroy buildings, bridges, and roads.



Stormwater refers to water that collects on the ground surface or is carried in the stormwater system when it rains. In runoff events where the amount of stormwater is too great for the system, or if the channel system is disrupted by vegetation or other debris that blocks inlets or pipes, excess water remains on the surface. This water may pond in low-lying areas, often in street intersections. This is known as stormwater flooding. Stormwater flooding and ponding can carry debris, dirt, chemicals, and pollutants from impervious surfaces, leading to health issues as briefly described above.

Dam inundation can occur as a result of structural failure, overtopping, seismic activity, or other reasons described in more detail under Section 4.3.2 Dam Failure/Incident, which cause to the dam release its contents (often water), leading to flooding. With tens of dams of various types in or upstream of Adams County, dam inundation could cause serious issues and affect populations, property, and critical facilities or infrastructure. Other water and flood control structure-based flooding, such as that arising from levee failure, could also affect the county. For more information on levee and other structure-induced flooding refer to the 2018 Colorado State Hazard Mitigation Plan, and the 2018 Flood Hazard Mitigation Plan for Colorado.

The area adjacent to a river or stream channel is its floodplain. In its common usage, the term floodplain most often refers to that area that is inundated by the 100-year flood, or the flood that has a 1% chance in any given year of being equaled or exceeded. The 100-year flood is the national standard to which communities regulate their floodplains through the Federal Emergency Management Agency (FEMA) National Flood Insurance Program (NFIP).

Adams County is one of the richest irrigated and dry land farming areas across the U.S., with a hydrography characterized by a majority of intermittent flowing streams. According to the latest Adams County Flood Insurance Study (FIS), dated September 28, 2018, principal flood problems on the major waterways stem from the South Platte River and its tributaries' snow melt and summer weather front (e.g. thunderstorms) flooding characteristics, especially when coupled with the tributary basins' structure as they are narrow, hydraulically steep, and composed of highly erodible clay and loam soils. Almost all major floods from the South Platte River have been generated near the river's headwaters near Monument Divide, between Castle Rock and Colorado Springs. But significant snowmelt and intensive rain storms over the tributaries can often spread to Adams County, reaching waterways such as Sand Creek.

According to the FIS report, most flooding events on the South Platte and major streams like Sand Creek have occurred due to cloudbursts of intensive rainstorms which normally take place late spring through late summer (May-August). The South Platte River is often aggravated by snowmelt runoff during these key wet periods.

Geographic Location

The geographic coverage potential of this flooding hazard in Adams County is **Limited**.

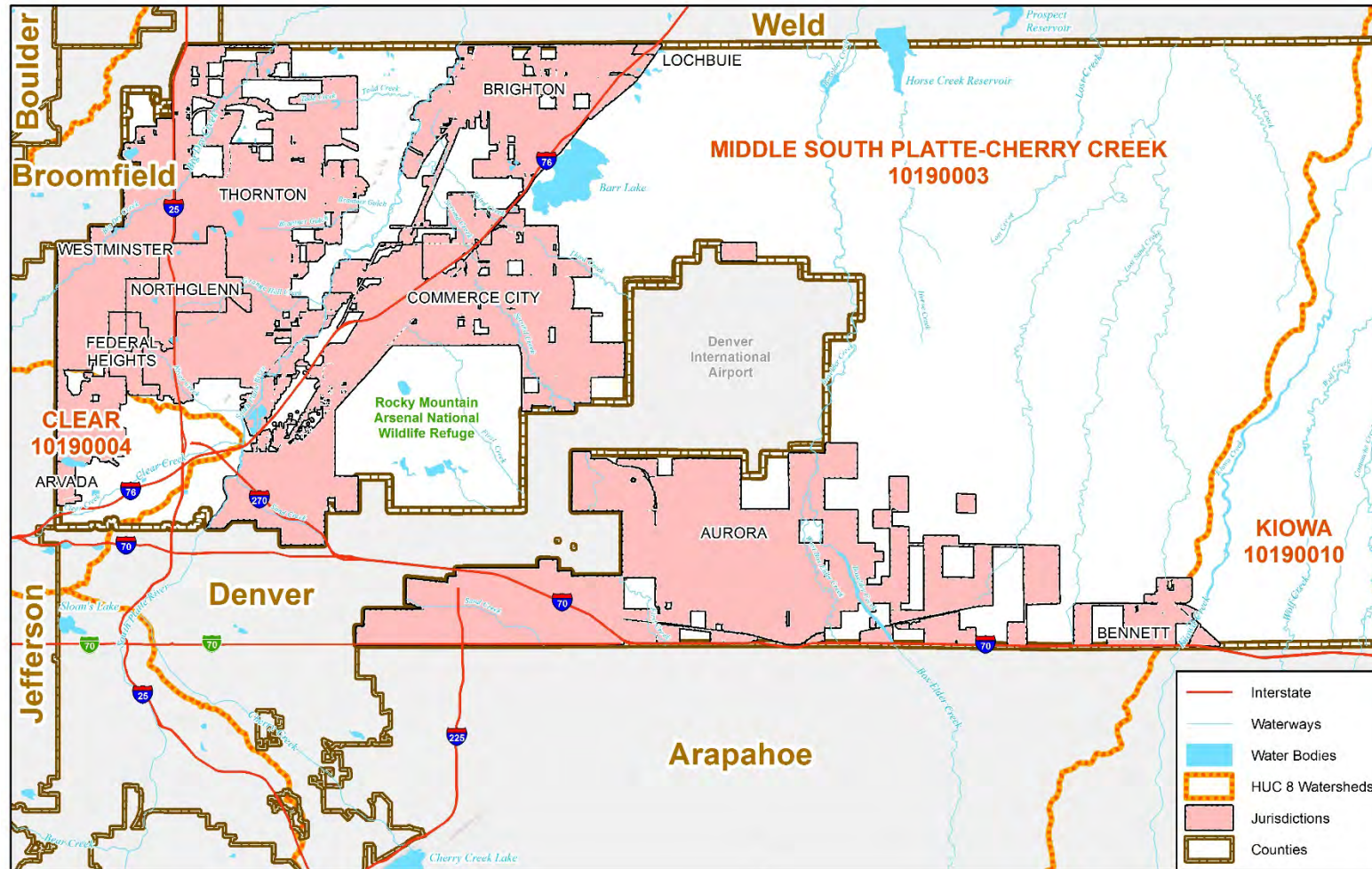
Adams County entirely falls within the South Platte River Basin, which has Hydrologic Unit Code 6 (HUC 6) 101900. The South Platte basin encompasses all or part of 25 counties in Colorado, and is about 24,151 square miles in area. Elevation in the basin ranges from 14,000 feet at the Continental Divide to 3,400 feet at the Colorado-Nebraska state line. The South Platte River is the major stream in the basin. Some of the State's most devastating floods have taken place in the South Platte basin. The major sub-basins in the South Platte River Basin, which are classified as HUC 8, are listed and briefly described in the bullet points below; these are displayed in Figure 4-18 and Figure 4-19 along with major water features in and near Adams County:



- Middle South Platte-Cherry Creek (HUC 10190003) – This watershed encompasses about 45% of Adams County, and runs north-south through the majority of its western portion. Some vegetation and land cover/land use types in this watershed within Adams County include irrigated agriculture, dryland agriculture, general grasses, and rangeland (among others) (USDA 2009).
- Clear (HUC 10190004) – Clear crosses very slightly into Adams County, from its western-most edge, reaching into Arvada and Westminster. The main waterway in this watershed is Clear Creek, which runs west-east.
- Kiowa (HUC 10190010) – Kiowa Creek is the main waterway in this watershed, though Wolf Creek and Comanche Creek contribute to the overall drainage and catchment of water in this watershed. The Kiowa watershed cuts Adams County north-south and is located immediate to the east of the Middle South Platte-Cherry Creek watershed, and to the west of the Bijou watershed.
- Bijou (HUC 10190011) – The Bijou watershed also cuts Adams County north-south, and its main waterway is Bijou Creek. Other major streams in the watershed include East Bijou Creek, West Bijou Creek, and Muddy Creek.
- Middle South Platte-Sterling (HUC 10190012) – The Middle South Platte-Sterling watershed is located on the eastern portion of Adams County, encompassing its northeast corner and south-southeast area (along with the Beaver watershed). It is located immediate east of the Bijou watershed, and its major waterways within Adams County include Badger Creek and Sand Arroyo Creek.
- Beaver (HUC 10190013) – This watershed only crosses Adams County slightly, on its southeastern-most corner. The main stream present in the county from this watershed is Wetzel Creek.



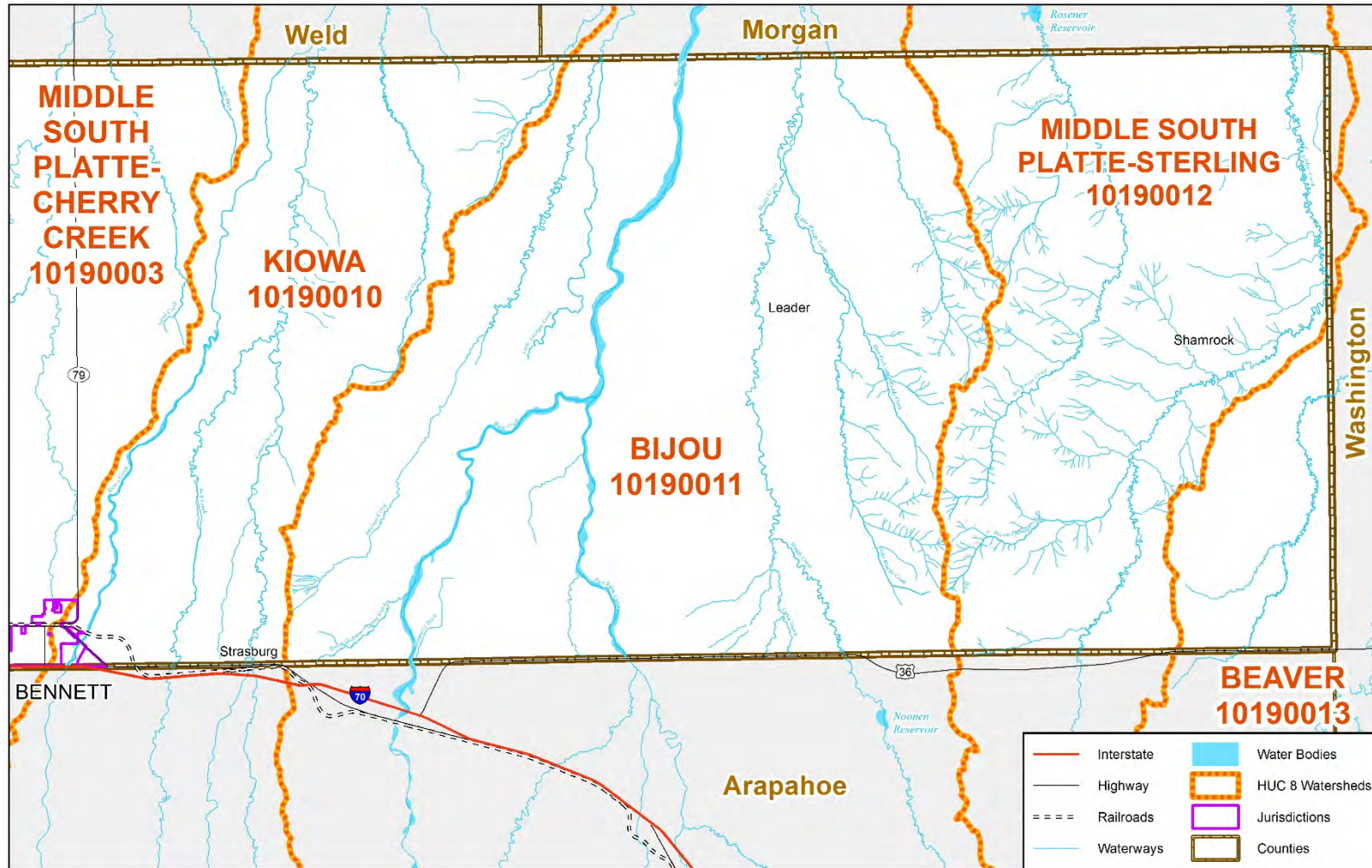
Figure 4-18 Basins and General Water Features in West Adams County



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS, Colorado
Information Marketplace, CO BLM, ESRI/
World Terrain Map, USGS NHD.
Note: HUC = Hyrdologic Unit Code



Figure 4-19 Basins and General Water Features in East Adams County



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS, Colorado
Information Marketplace, CO BLM, ESRI
World Terrain Map, USGS NHD.
Note: HUC = Hyrdologic Unit Code

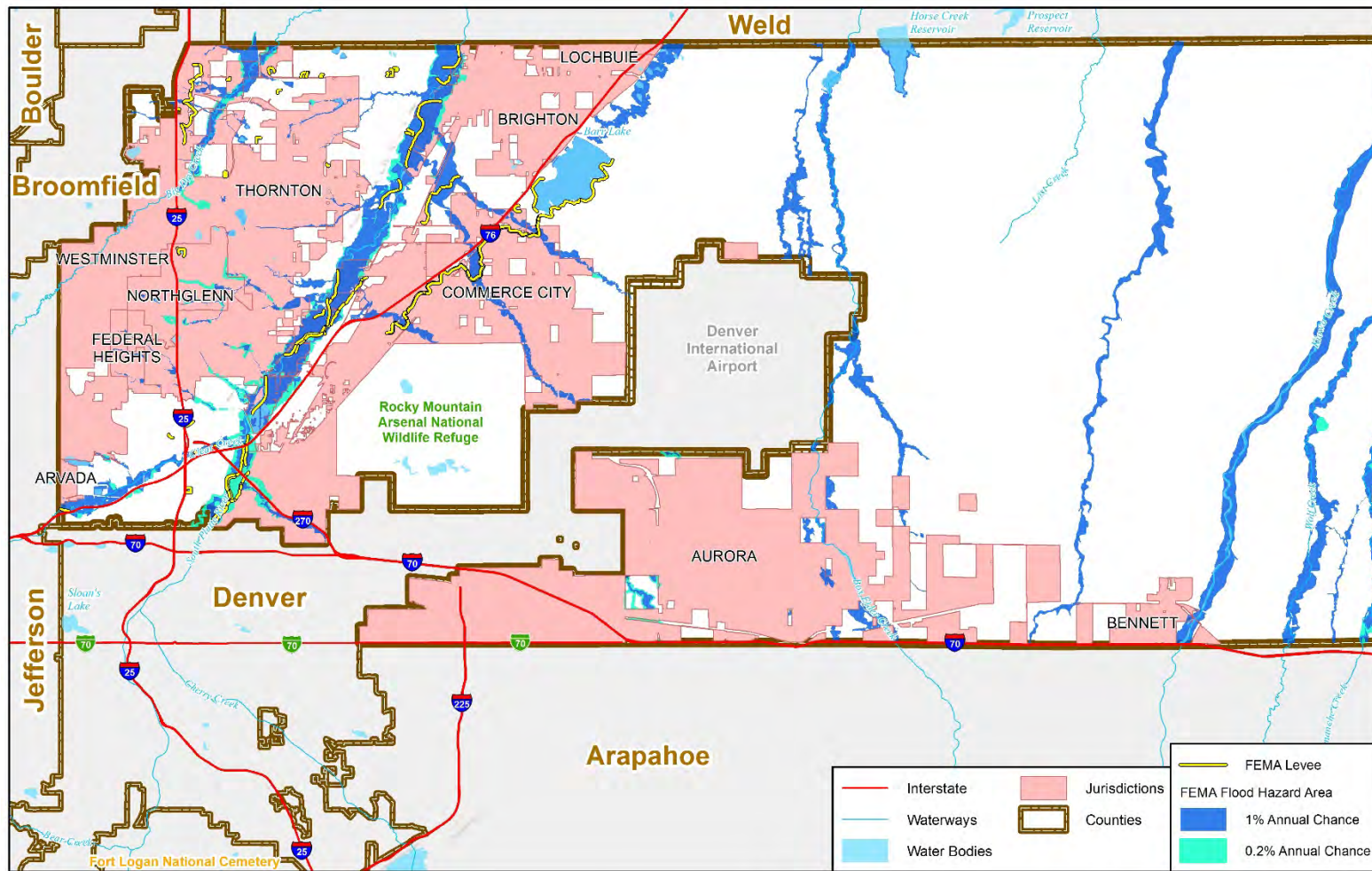


To accurately assess the risk of flooding, it is necessary to know what areas of a community may be the most susceptible to flooding. FEMA's National Flood Hazard Layer (NFHL) depicts high flood risk areas, referred to as Special Flood Hazard Areas (SFHAs), as well as other components such as Base (1%-annual-chance) Flood Elevations (BFEs), 0.2% annual chance floodplains (i.e. where the 500-year flood event would occur based on studied water features), and even built levee structures. The current NFHL with SFHAs for Adams County is dated October 29, 2019, and these floodplains and FEMA levees are displayed in Figure 4-20 and Figure 4-21. As the map shows, most of the higher risk areas are located in the western portion of the county, especially along the South Platte River which runs between the Thornton/Northglenn and Commerce City/Brighton areas, as well as along major river tributaries. Some of these high population areas where floodplains are present are covered by levees, as displayed by the yellow lines. Other floodplains posing risk to the planning area are located along the middle portion of Adams County, to the west and east of Highway 79, with other flood hazard areas along Bijou Creek and Muddy Creek farthest east of the county. The main waterways of concern in terms of flooding hazard as mapped by FEMA are listed below:

- South Platte River
- Clear Creek
- Niver Creek
- Sand Creek
- First Creek
- Second Creek
- Third Creek
- Todd Creek
- Big Dry Creek
- Brantner Gulch
- Boxelder Creek
- Lost Sand Creek
- Kiowa Creek
- Bijou Creek
- Wolf Creek
- Comanche Creek
- Muddy Creek



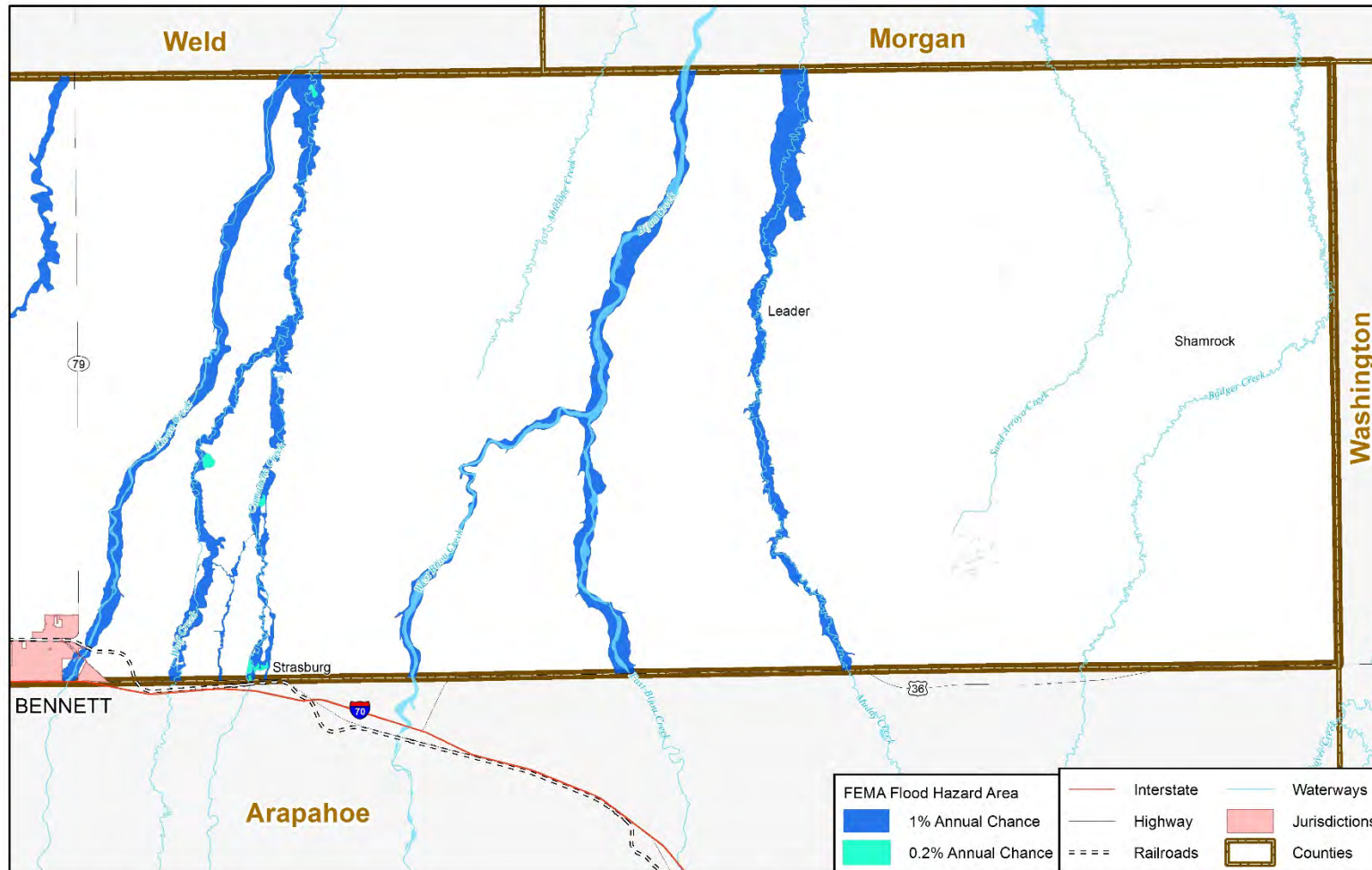
Figure 4-20 FEMA Special Flood Hazard Areas and Levees in West Adams County



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS, Colorado
Information Marketplace, CO BLM, ESRI
World Terrain Map, FEMA NFHL



Figure 4-21 FEMA Special Flood Hazard Areas and Levees in East Adams County



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace, CO
BLM, ESRI, World Terrain Map, FEMA NFHL



Previous Occurrences

There have been a number of past flooding events throughout the County, ranging widely in terms of location, magnitude, and impacts. The most frequent flooding events are quite localized in nature, resulting from heavy rains in a short period of time over urbanized areas that are not able to appropriately handle stormwater runoff. These events typically do not significantly threaten lives or property and will not result in emergency or disaster declarations; however, per the record set below, some events can definitely lead to injuries and death, as well as thousands or millions of incurred damages. Notable flood events from 1997 to 2019 are summarized in the bullet list below. These events include event-related injuries, deaths, and property or crop damages as applicable.

- **June 6, 1997** – A nearly stationary line of thunderstorms dumped 4.6 inches of rain onto portions of Thornton. Extensive flooding of streets, underpasses and other low lying areas was reported. Several businesses were flooded and basements in the area damaged.
- **July 29, 1997** - Heavy rain caused flooding to occur in the Rancho Pecos apartment building, in Westminster. Several residents had to be evacuated from their apartments, and property damages were around \$20,000. Flooding in that area, as well as near Strasburg on the eastern portion of the county, occurred on and off until August 4th of that year.
- **July 25, 1998** – A newspaper source indicated there was flash flooding in Aurora starting late afternoon on the 25th of July 1998. That same day, a trained spotter reported flood and flash flooding occurring north of Strasburg, on the eastern portion of Adams County, as 2.51 inches of rain fell in an hour. The deluge resulted in considerable flooding of local streets and county roads.
- **August 4, 1999** - Flooding and flash flooding problems developed over portions of the Urban Corridor on western Adams County, as slow moving thunderstorms dumped 2 to 3.5 inches of rainfall in approximately 3 hours. Near the junction of Interstate 25 and State Highway 36, up to 4 feet of water flooded an auto dealership, and approximately 45 cars were ruined. Sections of Interstate 25 and State Highway 36 near the interchange were closed due to floodwaters. Damage estimates to the dealership alone were approximately \$500,000. Floodwaters up to 5 feet deep forced the evacuation of two mobile home parks in Federal Heights. In addition, railroad tracks were washed out near Federal Blvd. and 64th Avenue. Numerous outages were reported with widespread blackouts in Thornton and Littleton. Along Massey Draw, near Carr Street and Chatfield Reservoir, 4 homes were flood damaged and portions of their backyards washed out.
- **August 5, 1999** - A dog kennel east of Denver International Airport was flooded when a small dam, upstream in Elbert County, reportedly breached. The floodwaters, up to 4 feet deep, washed away some 6-foot fences and other small buildings. Ten of the 70 dogs boarded at the kennel drowned.
- **July 16, 2000** - Very moist and unstable conditions combined with upslope during the late afternoon and evening hours triggered widespread urban and small stream flooding in and around the Denver metropolitan area. Rainfall amounts generally ranged from 1 to 3 inches, with the heaviest rainfall occurring during the evening hours. Since the rain fell in a relatively open area, no flood damage was reported.
- **August 17, 2000** - Thunderstorms producing very heavy rain of up to 3.5 inches in areas caused flooding and flash flooding problems in and around the Denver Metropolitan area. In Commerce City, a 37-yr old firefighter drowned while attempting to rescue a stranded motorist. According to a fire department spokesman, the firefighters were wading through the water when one of the men lost his footing and was sucked into a 10-ft deep culvert. He



was swept away before anyone could reach him. One death was therefore reported from this flash flood incident.

- **August 2, 2001** - Severe thunderstorms producing heavy rain and hail either washed out or damaged several county roads in the Watkins and Bennett areas (on the south-central portions of Adams County).
- **June 6, 2003** - Thunderstorms producing heavy rain caused flash flooding across extreme eastern sections of Adams County. Approximately 11 to 12 miles south of Leader, there was 1 to 2 feet of water covering the roadway. The highway department reportedly conducted major work on the road the following day to fix the damage caused by the flooding.
- **June 18, 2003** - Heavy rain caused flash flooding east of Leader, on the central-eastern portion of Adams County. Water up to 6 inches deep ran over bridges. In addition, several locations along Irondale Road (near East 88th Ave) had water flowing over them.
- **July 23, 2004** - Heavy rain caused flooding and flash flooding problems in and around the Federal Heights and Thornton areas. Several streets were inundated with anywhere from 2 to 4 feet of water including: 84th Ave. and Grant St., Conifer St. and Huron Blvd., 102nd St. and Melody as well as 83rd St. and Washington. Several cars were stranded in the floodwaters.
- **September 12-14, 2013** (known as the "2013 Colorado Floods") - Continuous heavy rainfall produced flash flooding, and floodwaters were reportedly breaking through basement windows west of Brighton, as well as impacting the Barr Lake area, Thornton, residences in Commerce City, and Henderson (in the unincorporated area between Thornton and Commerce City). A deep southerly flow over Colorado, ahead of a near stationary low pressure system over the Great Basin, pumped copious amounts of monsoonal moisture into the area. Commerce City officials ordered about 400 residents to leave a neighborhood near the Rocky Mountain Arsenal National Wildlife Refuge due to potential retention pond breaches. Homes, roads, and other properties were often covered under several feet of standing water across impacted communities. The storm headwaters then moved down the South Platte River and caused widespread flooding with record flood stages in northeastern Colorado counties. The floodwaters from the torrential rain hence resulted in widespread evacuations, road closures, and numerous water treatment facilities were contaminated and had to be shut down. Governor Hickenlooper declared a disaster emergency on September 13th in 11 counties across northeast Colorado including: Adams, Arapahoe, Broomfield, Boulder, Denver, Jefferson, Larimer, Logan, Morgan, Washington and Weld. By September 15th, federal emergency declarations covered those counties as well as Clear Creek County. Overall property damages for the Adams County area were estimated to be \$2,140,000.
- **May 22, 2014** - A severe thunderstorm in the Denver area produced nickel to quarter size hail in parts of Adams and Denver Counties. The line of stationary thunderstorms causing heavy rainfall also produced localized flash flooding near Bennett. Over one foot of water was observed rushing over the junction of US 36 and Kiowa-Bennett Road. An estimated \$10,000 was incurred in property damages.
- **August 30, 2016** - A wet microburst produced an intense thunderstorm with very heavy rain and hail in Westminster (with up to 3.6 inches of radar-estimated rainfall). Several vehicles were stranded in 2 to 3 feet of moving water at the intersection of 72nd Ave. and Pecos St. Street, and flooding was also reported on U.S. 36 at Pecos St.

Table 4-34 summarizes the flood events recorded in the National Oceanic and Atmospheric Administration (NOAA) National Centers for Environmental Information (NCEI) storm events database for Adams County, since 1997. Of the 22 flood events, 18 have been categorized as flash flood events, 1 led to a human death, and 4 resulted in property damages being incurred. All these were described in more detail in the bullet points above.



Table 4-34 Flood Related Deaths and Damages in Adams County, 1997-2019

Event Type	Number of Events	Deaths	Property Damage
Flash Flood	18	1	\$510,000
Flood	4	0	\$2,160,000
TOTAL	22	1	\$2,670,000

Source: NOAA NCEI, 2019

Almost all record floods on the South Platte River have been generated near the river’s headwaters on the slopes of Monument Divide. The following flood events, principal flood problems, and general terrain and flood related information for Adams County were pulled from the county’s September 28, 2018 Flood Insurance Study report:

- Major recorded floods have occurred on the South Platte River and its tributaries since 1844 in the Adams County area.
 - Specifically, 11 devastating floods occurred on the South Platte River, 3 on Clear Creek, and 3 each on Box Elder, Comanche Creek, and Bijou Creek.
- Major flooding in the Town of Bennett has been well documented back to 1875, where a major flood along Kiowa Creek overflowed the channel banks and destroyed the Town. After that flooding event, the Town was moved to its present-day location.
- The most significant floods of recent times on the South Platte River occurred in 1912, 1921, 1933, 1935, 1942, 1965, and 1973. The discharges for these floods were 13,000 cubic feet per second (cfs), 8,790 cfs, 22,000 cfs, 12,320 cfs, 10,200 cfs, 40,300 cfs, and 33,000 cfs, respectively, at the Denver gage. Clear Creek experienced flood discharges of 8,700 cfs, 5,390 cfs, and 5,250 cfs in 1888, 1933, and 1956, respectively recorded at the Golden gauge. Citizens interviewed in Watkins, Strasburg, Byers, and Deer Trail recalled severe damage and lives lost in 1905, 1933, 1935, and 1965 floods on Box Elder Creek, Comanche Creek, West Bijou Creek, and East Bijou Creek.
- In 1965, a unique combination of orthographic effects and meteorological conditions in the South Platte River Basin caused the worst flooding in the region's recorded history. Severe thunderstorms commenced over the headwaters of Plum Creek and Cherry Creek on June 16 and moved northeasterly down the creeks following and augmenting peak flows. More than 14 inches of rain were recorded at Palmer Lake in 4 hours. Overnight, westerly winds moved the storm front to a position over the Kiowa and Bijou Creek Basins where it met with thunderstorms forming just south of Agate. Here, 5.25 inches fell in 45 minutes. The net results of these conditions were six people drowned, two other deaths caused by flood-related activities, and estimated damages of \$500 million in the South Platte River Basin, of which \$300 million occurred in the Denver area.
- Severe flood runoff is transported through the City of Federal Heights as both overland shallow flow and as channel flow. The steep slope of the land, the close proximity of mobile homes to Tributary M of Niver Creek, and the presence of several culverts that are inadequate to convey major storm runoff combine to create flooding problems.
- The first major contribution to flood control in Adams County streams took place in the late 1800s, when Castlewood Dam was completed with the primary intention being irrigation uses. However, in August of 1933, this dam burst under pressure of water from severe thunderstorms in the upper Cherry Creek Basin.
- Throughout the study segment of the South Platte River in Adams County, levees have also been constructed as flood protection measures (some of which are displayed in Figure 4-20). However, past evidence shows these levees to be ineffective against 1-percent-annual-chance floods. On large segments of the South Platte River, historical records indicate that the 1965 and 1973 floods were of the 1-percent-annual-chance magnitude or greater.



- Nonstructural measures of flood protection are also used to aid in the prevention of future flood damage. These are the result of regulations of the Mile High Flood District.

Urban and stormwater drainage within the County has largely been associated with flooding of roadways during storm events. Adams County currently monitors several problem areas and is proactive in clearing the areas and closing the roads.

Probability of Future Occurrence

The probability of future occurrence of this flooding hazard in Adams County is **Likely**.

Periodic flooding of lands adjacent to rivers and streams is a natural occurrence in the county, and it can be expected to take place based upon established flood recurrence intervals.

A 100-year flood, which has a 1% chance (1 in 100) of occurring in a given year, is a regulatory standard used by federal agencies, states, and NFIP- participating communities to administer and enforce floodplain management programs, as well as set insurance requirements nationwide.

The 500-year flood event, which has a 0.2% chance (1 in 500) chance of occurring in a given year, is another commonly mapped and studied event by FEMA flood related programs and efforts.

For context, the main flood recurrence intervals used in planning, floodplain studies, and other regulatory contexts are summarized in Table 4-35, and more detailed descriptions of FEMA special flood hazard zones applicable to Adams County are contained in Table 4-36. The most recent FEMA special flood hazard areas mapped, which contain the 100- and 500-year events and hence where riverine flooding is expected to primarily occur in the future, are shown on Figure 4-20 under the Geographic Location subsection of this chapter.

Table 4-35 Annual Probability of Flooding Based on Recurrence Intervals

Flood Recurrence Interval	Annual Chance of Occurrence
10-year	10%
50-year	2%
100-year	1%
500-year	0.2%

Source: FEMA

Table 4-36 FEMA Special Flood Hazard Zones Present in Adams County

Flood Zone	Definitions
FEMA Special Flood Hazard Areas (SFHAs) Subject to Inundation by the 100- or 500-Year Floods	
Zone A	100-year floodplain, or areas with a 1% annual chance of flooding. Because detailed analyses are not performed these areas, no depths or base flood elevations are shown in Zone A areas.
Zone AE	Detailed studies for the 100-year floodplain. The base floodplain where base flood elevations are provided. AE Zones are now used on new format FIRMs instead of A1-A30 zones.
Zone AO	River or stream flood hazard areas and areas with a 1% or greater chance of shallow flooding each year, usually in the form of sheet flow, with an average depth ranging from 1 to 3 feet. Average flood depths derived from detailed analyses.
Other Flood Areas	
Floodway	A regulatory floodway is the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.
Zone X (shaded)	Areas with a 0.2% annual chance flooding (1 in 500 chance), between the limits of the 100-year and 500-year floodplains. This zone is also used to designate base floodplains of lesser



Flood Zone	Definitions
	hazards, such as areas protected by levees from the 100-year flood, shallow flooding areas with average depths of less than one foot, or drainage areas less than 1 square mile.
Zone X (unshaded)	500-year floodplain (0.2% annual chance). Area of minimal flood hazard.

Source: FEMA Flood Map Service Center, 2018

Based on the details provided in this chapter, flooding remains a likely occurrence throughout the identified flood hazard areas in the county. Smaller floods caused by heavy rains or inadequate drainage capacity in urbanized areas may be more frequent, but not as costly as the large-scale floods, which may occur at much less frequent intervals. In addition, dam or flood control structure failure could additionally take place and lead to flooding in an unexpected manner, in which likelihood of occurrence estimations would be more difficult to obtain.

Magnitude/Severity

The magnitude, or severity, of flooding hazards in Adams County is **Significant**.

The severity of a flooding event is determined by the following key aspects: 1) a combination of stream and river basin topography and physiography; 2) precipitation and weather patterns; 3) recent soil moisture conditions; 4) the degree of vegetative clearing, and 5) effects on life, property, the environment, and the economy in terms of injuries and deaths, and damages or losses to structures, crops, resources, and critical facilities.

As previously discussed, major floods can induce property damages that threaten structural integrity, result in death and injuries, and impact critical services, facilities, and infrastructure. Flooding impacts a community only to the degree that it affects the lives or property of its citizens and the community's overall ability to function. Therefore, the most vulnerable areas of a community will be those most affected by floodwaters in terms of potential losses, damages, and disruption of community services and utilities. For example, an area with large developments on the floodplain is significantly more vulnerable to the impacts of flooding than a rural or undeveloped zone where potential floodwaters would have little impact on the community due to lack of the built environment and human presence.

A number of factors contribute to the relative vulnerabilities of certain areas in the floodplain. Development, or the presence of people and property in the hazardous areas, is a critical factor in determining vulnerability to flooding. Additional factors that contribute to flood vulnerability range from specific characteristics of the floodplain to characteristics of the structures located within the floodplain. The following is a brief discussion of some of these flood factors which pose risk.

- **Flood depth:** The greater the depth of flooding, the higher the potential for significant damages due to larger availability of flooding waters.
- **Flood duration:** The longer duration of time that floodwaters are in contact with building components, such as structural members, interior finishes, and mechanical equipment, the greater the potential for damage.
- **Velocity:** Flowing water exerts forces on the structural members of a building, increasing the likelihood of significant damage (e.g. such as scouring).
- **Elevation:** The lowest possible point where floodwaters may enter a structure is the most significant factor contributing to its vulnerability to damage, due to the higher likelihood that it will come into contact with water for a prolonged amount of time.
- **Construction Type:** Certain types of construction and materials are more resistant to the effects of floodwaters than others. Typically, masonry buildings, constructed of brick or concrete blocks, are the most resistant to damages simply because masonry materials can be



in contact with limited depths of flooding without sustaining significant damage. Wood frame structures are more susceptible to damage because the construction materials used are easily damaged when inundated with water.

Floods may also be caused by structural or hydrologic failures of dams or levees. Each of these causes results in floods that have distinct characteristics relative to flow rate, rate of rise, volume, duration, and flood season. For more information on dam and structural inundation hazards, refer to Section 4.3.2 Dam Failure/Incident.

Climate Change Considerations

The 2014 Climate Change Assessments from the Western Water Assessment program (part of the NOAA Rise Team) includes an increase in intensity of heavy precipitation events, which could affect the nature and frequency of future floods. Additionally, with wildfires already being a problem in many parts of Colorado, increasing periods of drought and lack of precipitation are expected to exacerbate conditions for fires to occur, and in turn likely worsen the potential for runoff and flooding associated with burned areas. While Adams County fire history has not been significant in recent years, the potential for added development in the Wildland Urban Interface (WUI) could worsen risks to this hazard, in turn affecting future flooding due to changing climate conditions. For more information on fire hazards and WUI issues, refer to Section 4.3.13 Wildfire.

Vulnerability

Flood hazards affect most of the communities in the County, will continue to occur in the future, and can be critical in their magnitude causing injuries or even deaths, and damaging property and infrastructure. The following sub-sections discuss the results of the parcel analysis conducted for Adams County, using parcel centroids and the latest FEMA National Flood Hazard Layer (NFHL) data, updated as of October 29, 2019. Other data sources and vulnerability assessment methods may be used for assets not available in geospatial format, or to supplement existing GIS analysis (e.g. discussion of properties insured by the NFIP).

People

Based on the GIS analysis performed, where the FEMA special flood hazard areas were overlaid with the Adams County parcel layer to obtain the number of vulnerable properties (i.e. those falling in the hazard layer), the total at-risk population to this hazard was estimated. The total population exposed to flooding hazards was calculated by multiplying the average persons per household value for Adams County (which is 3.0) by the total properties of residential nature found to intersect with the flood hazard layers. This assessment yielded that 927 people may potentially fall in the 100-year floodplains, while 1,578 people may be found in the 500-year floodplains. For more details, refer to Table 4-37.

The impacts of flooding on vulnerable populations can be more severe. Comparing Figure 4-20 and Figure 4-21 with the social vulnerability maps in Section 2-5 shows that many of the areas at greatest risk of flooding also have higher social vulnerability stemming from socioeconomic status, household composition and disabilities, minority status and language proficiency, or housing and transportation resources. Families in this area may have fewer financial resources to prepare for or recover from a flood, and may be more likely to be uninsured or underinsured. Individuals with disabilities may need more time to evacuate, so evacuation notices will need to be issued as soon as feasible, and communicated by multiple, inclusive methods.



General Property

Vulnerability to flooding was determined by summing potential losses to Adams County's parcels in GIS, by using the latest FEMA NFHL data along with the County parcel layer the provided by the Assessor's Office. FEMA's NFHL data depicts the 1% annual chance (100-year) and the 0.2% annual chance (500-year) flood events. Flood zones A, AE, and AO are variations of the 1% annual chance event and were included in the analysis due to being present in Adams County. The "Shaded Zone X" along with the subtype 0.2% annual chance hazard zone were used to represent the 500-year flood event.

GIS was used to create a centroid, or point, representing the center of each parcel polygon. Only parcels with improvement values greater than zero were used in the analysis (with the exception of "Exempt" parcels, which were included regardless of improvement values); this assumes that improved parcels have a structure of some type. The FEMA flood zones were overlaid in GIS on the parcel centroid data to identify structures that would likely be inundated during a 1% annual chance or 0.2% annual chance flood event. Property improvement values for the points were based on the assessor's parcel data and summed by parcel type and jurisdiction across the county, along with content values and total values.

Content values were calculated based on improvement values and parcel types, using FEMA Hazus guidance as described under Section 4.2: Asset Summary. Property improvements and content values were then totaled, and a 25% loss estimation factor was applied based on those totals, per the FEMA depth damage functions.

Results of the overlay analysis are summarized in Table 4-37 by flood zone, jurisdiction, and parcel type. Based on these results, there are 959 improved properties in the 1% annual chance flood zone. The total parcel exposure value in the 1% annual chance flood zone is \$63.6 million, with a loss estimate of \$15.9 million. In the 0.2% annual chance flood there are 620 additional improved parcels, with a total exposure value of \$29.9 million and a loss estimate of almost \$7.5 million.

The greatest potential losses from either 100-year or 500-year flooding would occur in the Unincorporated Adams County areas, followed by Thornton, Northglenn, Brighton, Commerce City, Westminster, Arvada, and Federal Heights. Overall, there are a total of 1,579 parcels at risk countywide, with a total value of \$99.2 million and a loss estimate of almost \$24.8 million.

Table 4-37 Parcels Exposed to FEMA's Special Flood Hazard Areas in Adams County

Jurisdiction	Flood Event	Total Improved Parcels	Improved Value	Content Value	Total Value	Loss Estimate (25% of Total Value)	Population
Arvada	100-year	5	\$1,232,850	\$1,232,850	\$2,465,700	\$616,425	--
TOTAL		5	\$1,232,850	\$1,232,850	\$2,465,700	\$616,425	-
Brighton	100-year	32	\$219,530	\$109,765	\$329,295	\$82,324	3
	500-year	93	\$3,847,180	\$2,066,205	\$5,913,385	\$1,478,346	249
TOTAL		125	\$4,066,710	\$2,175,970	\$6,242,680	\$1,560,670	252
Commerce City	100-year	89	\$7,980,310	\$6,176,635	\$14,156,945	\$3,539,236	9
	500-year	18	\$1,445,830	\$1,593,885	\$3,039,715	\$759,929	-
TOTAL		107	\$9,426,140	\$7,770,520	\$17,196,660	\$4,299,165	9
Federal Heights	100-year	4	\$10,450	\$5,225	\$15,675	\$3,919	3
TOTAL		4	\$10,450	\$5,225	\$15,675	\$3,919	3
Northglenn	100-year	28	\$1,117,930	\$1,346,195	\$2,464,125	\$616,031	48
	500-year	146	\$3,630,590	\$1,825,880	\$5,456,470	\$1,364,118	411



Jurisdiction	Flood Event	Total Improved Parcels	Improved Value	Content Value	Total Value	Loss Estimate (25% of Total Value)	Population
TOTAL		174	\$4,748,520	\$3,172,075	\$7,920,595	\$1,980,149	459
Thornton	100-year	138	\$710,050	\$464,215	\$1,174,265	\$293,566	27
	500-year	124	\$2,587,870	\$1,564,865	\$4,152,735	\$1,038,184	333
TOTAL		262	\$3,297,920	\$2,029,080	\$5,327,000	\$1,331,750	360
Westminster	100-year	13	\$152,740	\$0	\$152,740	\$38,185	-
TOTAL		13	\$152,740	\$0	\$152,740	\$38,185	-
Unincorporated	100-year	650	\$26,376,260	\$21,308,330	\$47,684,590	\$11,921,148	837
	500-year	239	\$6,833,810	\$5,345,850	\$12,179,660	\$3,044,915	585
TOTAL		889	\$33,210,070	\$26,654,180	\$59,864,250	\$14,966,063	1,422
GRAND TOTAL		1,579	\$56,145,400	\$43,039,900	\$99,185,300	\$24,796,325	2,505

Source: FEMA NFHL 2019, Adams County GIS, U.S. Census Bureau, Wood analysis.

The loss estimates for this vulnerability assessment are a planning level analysis suitable for flood risk mitigation, emergency preparedness, response, and recovery. The methodology and results should be considered 'reasonable.' Uncertainties are inherent in any loss estimation methodology, and losses will vary depending on the magnitude of the flood event and current assets present. Other limitations may include incomplete or inaccurate inventories of the built environment, lack of mitigation information regarding built structures (e.g. structure elevation details), or even potential mitigation projects in place such as flood control projects. As such, this loss estimation assumes no mitigation and does not account for buildings that may have been elevated above the 1% annual chance event according to local floodplain management regulations. Another limitation to this analysis is that flooding does occur outside of available mapped floodplains due to poor drainage, stormwater overflow, and lack of FEMA or other data for those areas adjacent to streams that have not been analyzed.

Critical Facilities and Infrastructure

The impacts of floodwater on critical facilities such as police and fire stations, health facilities, and water or wastewater treatment facilities among others can greatly increase the overall effect of a flood event on a community (e.g. if critical potable facilities are impacted). In general, most of these facilities are located in areas with lower risk to flooding due to recent requirements for developers to consider hazard risks in their plans. However, the GIS analysis performed indicates the following critical facilities (Table 4-38) were found to be located within 100- or 500-year floodplains and are hence at risk of riverine flood hazards.

Table 4-38 Critical Facilities in Flood Hazard Areas in Adams County, by FEMA Lifeline and Location

Jurisdiction	Flood Event	FEMA Lifeline	Total
Brighton	100-year	Food/Water/Shelter	1
		Transportation	1
TOTAL			2
Commerce City	100-year	Food/Water/Shelter	5
		Hazardous Material	3
		Safety and Security	8
		Transportation	3
	500-year	Hazardous Material	6
		Safety and Security	4
TOTAL			29



Jurisdiction	Flood Event	FEMA Lifeline	Total
Federal Heights	100-year	Food/Water/Shelter	1
TOTAL			1
Northglenn	500-year	Safety and Security	2
TOTAL			2
Thornton	100-year	Food/Water/Shelter	8
		Hazardous Material	15
		Safety and Security	3
		Transportation	3
	500-year	Hazardous Material	1
TOTAL			30
Westminster	100-year	Hazardous Material	1
		Transportation	2
TOTAL			3
Unincorporated	100-year	Communications	5
		Energy	1
		Food/Water/Shelter	28
		Hazardous Material	40
		Safety and Security	37
		Transportation	94
	500-year	Communications	1
		Food/Water/Shelter	3
		Hazardous Material	5
		Safety and Security	3
		Transportation	2
TOTAL			219
GRAND TOTAL			286

Source: Adams County GIS, HIFLD, FEMA NFHL, Wood analysis

The majority are found in the Unincorporated portions of the county, followed by Thornton, Commerce City, Westminster, Brighton, Northglenn, and Federal Heights. A total of 259 facilities are located in the 1% annual chance flood event (100-year), while only 27 fall in the 0.2% annual chance flood event (500-year). The table below breaks up these critical facilities located in FEMA special flood hazard areas, but this time by facility type. Table 4-39 shows that the largest single category of those facilities is Tier HazMat II Sites, which raises the potential of toxic materials being released during a flood and impacting downstream communities. A large number of landfills/government service sites, bridges, and gravel mines/ponds are also found in floodplains.

Table 4-39 Critical Facilities in Flood Hazard Areas in Adams County, by Facility Type

Critical Facility Type	Total
HazMat EO Tier II Sites	60
Major Bridge	54
Landfills/Govt. Services	47
Gravel Mines/Ponds	44
Pedestrian Bridge	20
Golf Course Bridge	16
Minor Bridge	14
Communication Towers	6
Environmental Hazard Superfund	6
Government Facilities	6
Environmental Hazard Toxic Site	4
Schools	3
Electric Substations	1
EO Emergency Shelters	1
Fire Stations	1
HazMat EO RMP Sites	1
RTD Light Rail Station	1



Critical Facility Type	Total
Wastewater Treatment Plant	1
TOTAL	286

Source: Adams County GIS, HIFLD, FEMA NFHL, Wood analysis

Economy

Flooding can have a major economic impact on the economy, including indirect losses such as business interruption, lost wages, reduced tourism and visitation, and other downtime costs. Flooding often coincides with the summer tourism months and may hence impact, directly or indirectly (such as from the negative perception of potential danger to his hazard), the revenues of tourist agencies, hotel bookings, outdoor activity companies, and other such businesses in the commercial and industrial sectors.

National Flood Insurance Program (NFIP) Policies and Repetitive Flood Properties

FEMA insures properties against flooding losses through the NFIP. Table 4-40 below provides detailed information on National Flood Insurance Program (NFIP) policies in the plan-participating county jurisdictions, current as of September 12, 2019.

Table 4-40 Community Participation in the NFIP and Summary Information

Community	Date Joined (Regular Entry)	Current Map Date	Study Underway?	Policies in Force	Insurance in Force	Number of Paid Losses	Total Losses Paid
Adams County	2/1/79	9/28/18	Yes	177	\$54,342,200	19	\$114,092
Commerce City	2/15/78	2/17/17	Yes	20	\$5,802,000	--	--
Town of Bennett	9/12/14	3/5/07	Yes	--	--	--	--
City of Brighton	11/16/77	3/5/07	Yes	9	\$2,224,000	2	\$3,293

Source: FEMA NFIP, September 2019

NFIP insurance data indicates that as of September 12, 2019, there were 206 flood insurance policies in force in the jurisdictions in Adams County which are participating in this plan update process (including the unincorporated county), with \$62,368,200 of combined coverage.

As part of the process to reduce or eliminate repetitive flooding to structures across the United States, FEMA has developed an official Repetitive Loss Strategy. The purpose behind the national strategy is to identify, catalog, and propose mitigation measure to reduce flood losses to the relatively few numbers of structures that absorb the majority of the premium dollars from the national flood insurance fund. A repetitive loss property is defined by FEMA as “a property for which two or more NFIP losses of at least \$1,000 each have been paid within any 10-year period since 1978”. A repetitive loss property may or may not be currently insured by the NFIP.

There are 2 repetitive loss buildings in Adams County's unincorporated areas, 1 of which is insured. Losses-wise, 4 repetitive losses have been reported to the NFIP, 2 of which are insured properties. The total payments for repetitive loss buildings amounts to \$15,252 between the two flood hazard area zones applicable to the county: zones AE, A, A1-A30, AO, and AH; and, zones B, C, X. The majority of the repetitive loss payments were incurred in zones B, C, and X.

There are no repetitive loss properties or severe repetitive loss properties in Commerce City, the City of Brighton, or the Town of Bennet as of 2019.

Community Rating System (CRS)

The NFIP Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP



requirements. The three main goals of the CRS are to (1) reduce flood damage to insurable property, (2) strengthen and support the insurance aspects of the NFIP, and (3) encourage a comprehensive approach to floodplain management. The CRS offers flood insurance policy premium discounts for communities which develop and apply additional measures past minimum requirements related to floodplain management, and each community's eligibility is based on regular NFIP participation as well as maintaining full compliance with said program. Discounts range from 0% to 45% depending on given credits/scores, which assess the amount and degree of floodplain management measures and activities geared towards minimizing flood related damages, protecting the community and its resources, and developing according to best available codes ([FEMA Appendix F: CRS, 2019](#)).

There are 9 CRS classes that can qualify for discounts. Class 9, the lowest level, gives policy holders a 5% premium reduction. Class 1 is the highest level and gives premium discounts of 45% for properties located in the SFHA and 10% for properties outside the SFHA. There are many of activities recognized as measures for minimizing or eliminating exposure to floods. Credit points are assigned to each activity, and the activities are organized under 4 main categories:

- Public Information
- Mapping and Regulation
- Flood Damage Reduction
- Flood Preparedness

As of May 2019, Adams County's CRS class was 9. This means that the unincorporated portions of the county qualify for a 5% discount based on both SFHA and non-SFHA properties. Note that, for the purpose of determining these CRS discounts, all AR and A99 zones are treated as non-SFHAs. No other participating jurisdictions in this Plan update are currently participating in the CRS program, although several non-participating jurisdictions in the county are in the CRS program. The potential benefits of CRS participation are discussed in more detail in Section 5.5 of the Capability Assessment.

Historic, Cultural, and Natural Resources

There are significant historic, cultural, and natural resources and assets located throughout the County (e.g. trails and natural spaces, lakes). Natural areas within the floodplain often benefit from periodic flooding as a naturally recurring phenomenon. These natural areas often reduce flood impacts by allowing absorption and infiltration of floodwaters. Natural resources are generally resistant to flooding except where natural landscapes and soil compositions have been altered for human development or after periods of previous disasters such as drought and fire. Wetlands, for example, exist because of natural flooding incidents. Areas that are no longer wetlands may suffer from oversaturation of water, as will areas that are particularly impacted by drought. Areas which may have recently suffered from wildfire damage may erode because of flooding, which can permanently alter an ecological system.

Future Development

The risk of flooding to future development should be minimized by the floodplain management programs of the County and its municipalities, if properly enforced. Risk could be further reduced by strengthening floodplain ordinances and floodplain management programs beyond minimum NFIP minimum requirements.

Risk Summary

- The overall significance of flooding hazards is **High**.
- Over 1,500 parcels are exposed to flood hazards as portrayed by the latest FEMA NFHL data available. The majority are Residential in nature, followed by Exempt parcels.



- It is estimated that over 2,500 people may be found in special flood hazard areas based on the latest FEMA NFHL data available.
- A total of 286 critical facilities are found in flood hazard areas in the County.
- Related hazards: Dam Failure, Earthquake, Winter Weather, Thunderstorms.

Table 4-41 Flood Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Significant	Likely	Critical	High
Bennett	Extensive	Likely	Catastrophic	High
Brighton	Limited	Likely	Limited	Medium
Commerce City	Significant	Highly Likely	Limited	Medium
Denver Water	Limited	Likely	Limited	Medium

4.3.6 Hazardous Materials Incident

Hazard Description

Generally, a hazardous material is a substance or combination of substances which, because of quantity, concentration, or physical, chemical, or infectious characteristics, may either cause or significantly contribute to, an increase in mortality or an increase in serious, irreversible, or incapacitating reversible, illness. Hazardous materials may also pose a substantial present or potential hazard to human health or environment when improperly treated, stored, transported, disposed of, or otherwise managed.

Hazardous material incidents can occur while a hazardous substance is stored at a fixed facility, or while the substance is being transported along a road corridor or railroad line or via an enclosed pipeline or other linear infrastructure. In Adams County there are also environmentally contaminated properties also known as brownfields that pose a risk to residents as well as makes redeveloping the sites for future uses challenging. The Environmental Protection Agency (EPA) defines brownfields as, "abandoned, idled or under-used industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination".

The U.S. Department of Transportation (DOT), U.S. Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA) all have responsibilities relating to the transportation, storage, and use of hazardous materials and waste. The Right to Know Network maintained by the U.S. Coast Guard's National Response Center (NRC) is a primary source of information on the use and storage of hazardous materials, as well as data regarding spills and releases. In Colorado, the manufacture, use, storage, and transportation of hazardous materials is regulated by the Colorado Department of Public Health and the Environment (CDPHE). Hazardous materials carriers are subject to Colorado Public Utility Commission (PUC) registration and insurance requirements. Colorado statutes require that any person transporting hazardous materials that require placarding to obtain a Hazardous Materials Permit from the Public Utilities Commission. Safety oversight is the jurisdiction of the Colorado State Patrol.

The U.S. Department of Transportation divides Hazardous materials into the following classes:

- Explosives
- Compressed gases: flammable, non-flammable compressed, poisonous
- Flammable liquids: flammable (flashpoint below 141 degrees Fahrenheit) combustible (flashpoint from 141 - 200 degrees)
- Flammable solids: spontaneously combustible, dangerous when wet



- Oxidizers and organic peroxides
- Toxic materials: poisonous material, infectious agents
- Radioactive material
- Corrosive material: destruction of human skin, corrodes steel

Adams County Development Standards and Regulations defines a hazardous materials facility as a facility that produces or stores high volatile, flammable, explosive, toxic and/or water reactive materials (Adams County 2011). These facilities may include:

- Chemical and pharmaceutical plants (chemical plant, pharmaceutical manufacturing);
- Laboratories containing highly volatile, flammable, explosive, toxic, and/or water-reactive materials;
- Refineries;
- Hazardous waste storage and disposal sites; and
- Above ground gasoline or propane storage or sales center.

It is also common to see hazardous materials releases result as escalating incidents from other hazard incidents such as floods and wildfires. The release of hazardous materials can greatly complicate or even eclipse the response to the natural hazards disaster that caused the spill.

Geographic Location

Hazmat incidents can occur at fixed facilities or during transportation, as discussed below. Overall, the geographic coverage of this hazard in Adams County is limited—less than 10% of the planning area affected based on historical experience – but depending on the type and quantity of spills and the medium affected, the geographic coverage could become large.

Fixed Facilities

Generally, with a fixed facility, the hazards are pre-identified. The U.S. Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 requires industries to report on the storage, use, and releases of hazardous substances to federal, state, and local governments. Facilities in Colorado must submit an emergency and hazardous chemical inventory form (Tier II form) to the Colorado Department of Public Health and Environment (CDPHE) and, if required by local reporting regulations, the Local Emergency Planning Committee (LEPC) and local fire departments annually. Tier II forms provide state and local officials and the public with information on the general hazard types and locations of hazardous chemicals present at facilities during the previous calendar year. The inventory forms require basic facility identification information, employee contact information for both emergencies and non-emergencies, and information about chemicals stored or used at the facility. The EPA also requires facilities containing certain extremely hazardous substances to generate Risk Management Plans (RMPs) and resubmit these plans every five years.

The Adams County Office of Emergency Management administers the EPCRA program for the planning area through the Adams County LEPC. As of January 2020, there are 707 Tier II facilities and 14 RMP sites in Adams County, the most of any Colorado county. Of these, 462 are located in unincorporated Adams County; refer to Table 4-44 below for a breakdown of Tier II Facilities and RMP sites in each jurisdiction. The Colorado Department of Public and Environmental Health (CDPHE), lists one permitted hazardous waste facility in the county, located on west 56th Avenue.

GIS analysis was used to overlay the location of each Tier II facility and RMP sites with dam inundation layers, wildland urban interface (WUI) intermix layers and 100-year and 500-year floodplain layers. Of the 707 Tier II facilities in Adams County, 36 are located in the 100-year floodplain, all of which are located in unincorporated county except for 2 located in Commerce City; 8 are located in the 500-year floodplain,



with an even split between (4) unincorporated areas and (4) Commerce City; 13 are located in low density WUI, one is located in Brighton and the remaining in unincorporated areas; 77 Tier II facilities are located in a dam inundation path, located in unincorporated areas, Commerce City and Brighton. Each RMP site and the natural hazard the site is exposed to is listed in Table 4-42.

Table 4-42 Risk Management Plan Sites in Adams County

Name	Jurisdiction	Risk of Hazard
Colorado Interstate Gas Company, LLC - Totem Storage Facility	Unincorporated	
Henderson Fertilizer & Chemical - Agfinity Inc.	Unincorporated	Dam Inundation (<i>Chatfield and Cherry Creek dams</i>)
Wattenberg Gas Plant - Anadarko Petroleum Corp	Unincorporated	
BASF Construction Chemicals - BASF Corp.	Commerce City	
Denver Products Terminal - Sinclair Transportation Co.	Commerce City	
Denver Water - Recycling Plant	Commerce City	500-year flood (<i>Bear Creek and Spring Gulch</i>) and Dam Inundation (<i>Chatfield and Cherry Creek dams</i>)
Klein Water Treatment Plant - S. Adams Co. Water and Sanitation District	Commerce City	
Lineage Logistics - Henderson	Commerce City	
SEUSA Commerce City Refinery - Suncor Energy (U.S.A.) Inc.	Commerce City	Dam Inundation (<i>Chatfield and Cherry Creek dams</i>)
Veolia Environmental Services - Veolia ES Technical Solutions, L.L.C	Commerce City	Dam Inundation (<i>Chatfield and Cherry Creek dams</i>)

Source: Adams County GIS

Transportation

In transit, hazardous materials generally follow major transportation routes, including road, rail, and pipelines, creating a risk area immediately adjacent to these routes. There are five major interstates and highways that traverse Adams County, all of which have the potential for a hazardous materials incident. In particular concern for the western portion of the planning area is Interstate 70, and Interstate 25, both major corridors for the state and the nation and designated as Nuclear and Hazardous Materials routes. Closure on either Interstate due to a hazardous materials incident would significantly disrupt traffic flow between the Denver metropolitan area and the eastern plains leading to severe economic impacts to the Adams County area. State Highway (SH) 79 crosses north-south through the Town of Bennett and is also designated as a hazardous materials route. The County would be severely impacted if an incident were to occur on any of the routes, especially one that caused soil or water contamination.

There are two commercial airports located within and near Adams County, the Colorado Air and Space Port (formerly known as Front Range Airport) in unincorporated eastern Adams County, and Denver International Airport (DIA). DIA, although not part of Adams County jurisdictions, is surrounded by County lands and some flight paths from DIA are above Adams County and incorporated jurisdictions. The HMPC noted aviation incidents being a concern especially for Commerce City.

Both the Union Pacific Railroad (UPRR) and Burlington Northern Santa Fe Railway (BNSF) have mainline tracks that cross through Adams County, particularly in the western portion of the county. According to the Adams County Comprehensive Plan, the UPRR mainline track, which parallels US 85 averages 11 to 15 trains per day. The BNSF mainline track, adjacent to SH 2 and I-76 north of the interchange averages 28-30 trains per day. One of the UPRR rail lines bisects the Town of Bennett at-grade and has been a concern for the HMPC in the past.



Refer to the Adams County website for additional information on RMP sites, Tier II facilities, and pipelines in the county.

While the western, industrialized portion of the county is where many of the hazardous materials facilities are located, hazardous material incidents can also occur in agricultural areas in the eastern portion of the county; these types of facilities typically use pesticides, fertilizers, and other agricultural chemicals that are potentially harmful to people and the environment if a spill or misuse was to happen. For example, agricultural pesticides and fertilizers are often transported daily around the planning area. Illegal drug operations and dumping sites have also been known to pose a hazardous materials threat.

Zoning

Zoning in the United States were originally developed to help keep residential properties away from the harmful outputs of industrial uses. Zoning allows the County to determine where certain uses (i.e. residential, commercial, industrial, agricultural) are located in their community. Zone districts are created by law in Adams County to control the use of land and development in the county. Current zoning was obtained through Adams County GIS parcel data from the County GIS Department. The following table show a breakdown of the location of Tier II facilities and RMP sites and the corresponding zone district in unincorporated Adams County only. Both Tier II and RMP facilities are most commonly found in agriculturally zoned areas. A majority of hazardous material facilities in the unincorporated areas are located in the Agricultural-3 District (A-3), which primary purpose is to all for dryland or irrigated farming, pasturage, or other related food production uses. Single family dwellings are permitted in the A-3 district, where the majority of Tier II facilities are located.

Table 4-43 Hazardous Materials Facilities, Tier II Facilities and RMP Site by Current Zoning Type (Unincorporated only)

Current Zoning ¹	# of Tier II Facilities	# of RMP Sites
A-1	30	
A-2	9	
A-3	310	2
AV	1	
C-0	2	
C-4	1	
I-1	4	1
I-2	27	
I-3	22	
PL	1	
P.U.D	12	
P.U.D (P)	15	
R-1-C	1	
RE	13	

Source: Adams County GIS

1 A-1: Agricultural-1 District – Purpose is to provide rural single-family dwelling district where the minimum lot area for a home site is intended to provide a rural living experience. Limited farming uses are permitted including the keeping of a limited number of animals for individual homeowner's use. This district is primarily designed for the utilization and enjoyment of the County's rural environment.

A-2: Agricultural-2 District - Purpose is to provide a district for rural subdivisions of at least ten (10) acres in size where adequate provisions are made for internal and external roads and access, water and sewer facilities, fire protection and other emergency services, and other public services and utilities. Farming uses are permitted, including the cultivation of land and the keeping of a limited number of animals.



A-3: Agricultural-3 District - Purpose is to provide land primarily in holdings of at least thirty-five (35) acres for dryland or irrigated farming, pasturage, or other related food production uses.

AV: Aviation District - intended to provide for non-residential land uses associated with aviation operations while minimizing risks to public safety and hazards to aviation users including those employed at public aviation facilities.

C-0: Commercial-0 District – Purpose is to provide an office district designed to provide administration and professional services, local employment and services, and provide a small local retail district designed to provide small convenient retail shopping and personal services for persons residing in adjacent residential areas.

C-4: Commercial-4 District - Purpose is to serve as a general retail and service district designed to provide services and products for both the general and traveling public in a regional context.

I-1: Industrial-1 District - Purpose is to provide a general commercial and limited industrial district designed to provide for a variety of compatible business, warehouse, wholesale, offices and very limited industrial uses.

I-2: Industrial-2 District: Purpose is to accommodate light manufacturing, processing, fabrication, assembly, and storage of non-hazardous and/or non-obnoxious material and products as well as allowing service facilities for industries and their employees.

I-3: Industrial-3 District - Purpose is to provide a heavy industrial district designed to accommodate most industrial enterprises.

PL: Public Lands, Parks, Open Space and Facilities District – Purpose is to protect established public lands and to provide an area in the County for location of parks, public open space, government buildings and facilities, schools and school grounds, quasi-public buildings and facilities, and related open space.

P.U.D: Planned Unit Development - The purpose and objective is to encourage the development of land as a single unit. Allows greater flexibility in the design of a development, more variety and diversification in the relationships between buildings, open spaces and uses, and conservation and retention of historical and natural topographic features while meeting the goals, policies and objectives of the comprehensive plan.

P.U.D (P): P.U.D. permitted

R-1-C: Residential -1-C District - The purpose of the Residential-1-C District is to serve exclusively as a single-family district for smaller home sites and smaller homes.

RE: Residential Estate - Purpose is to serve exclusively as a single family detached residential district for larger lots and larger homes in a spacious, open environment away from higher density uses and where agricultural uses and the keeping of livestock are substantially restricted.

The following table shows a breakdown of the number of Tier II facilities and RMP sites in each incorporated jurisdiction in Adams County.

Table 4-44 Hazardous Materials Facilities, Tier II Facilities and RMP Site by Jurisdiction

Jurisdiction	# of Tier II Facilities	# of RMP Sites
Arvada	3	
Aurora	76	2
Bennett	1	
Brighton	15	
Commerce City	72	7
Federal Heights	2	
Lochbuie	2	
Northglenn	2	1
Thornton	77	1
Westminster	9	
Unincorporated	448	3
Total	707	14

Source: Adams County GIS

Previous Occurrences

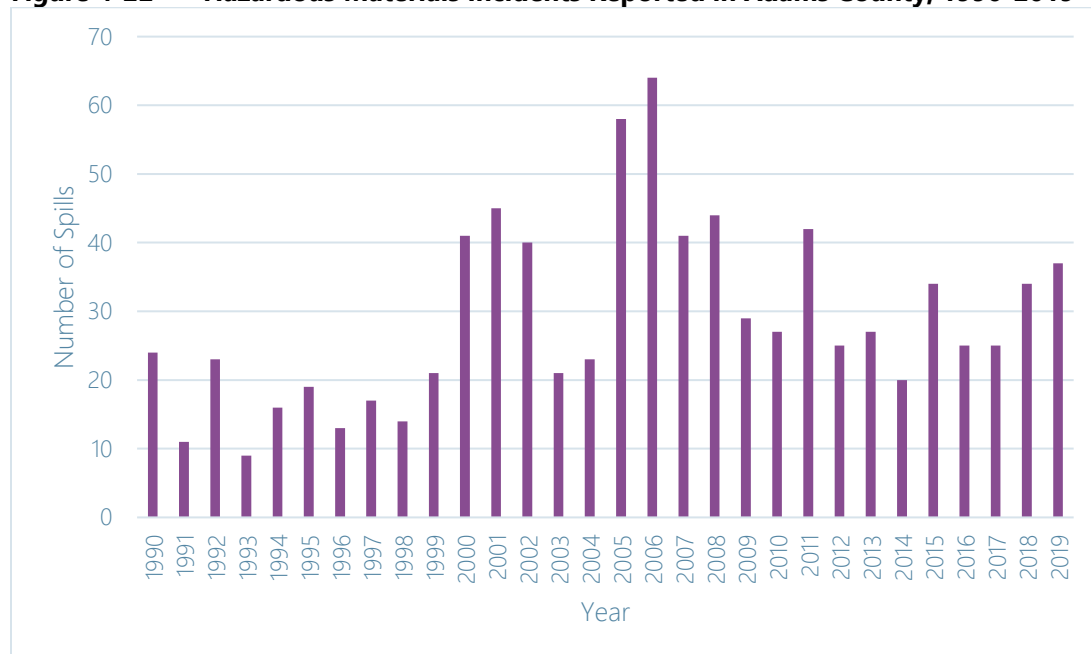
Hazardous materials incidents occur regularly in Adams County. The 2018 Colorado State Hazard Mitigation Plan notes that Adams County has more transportation and fixed facility hazardous materials releases than any other Colorado county (excluding oil and gas well spills).

Statistics from the National Response Center (NRC), which serves as the primary national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment



anywhere in the United States and its territories, indicate that between 1990 and the end of 2019, 869 hazardous materials incidents were reported in Adams County. This number almost certainly excludes a number of very small spills that were not reported to the NRC. This translates to an average of 29 incidents per year. The trend over the last 30 years shows fewer incidents in the 1990s (average of 17 incidents per year), with the number of incidents more than doubling during the 2000s (average of 39 incidents per year), followed by a slight decline during the 2010s (average of 30 incidents per year).

Figure 4-22 Hazardous Materials Incidents Reported in Adams County, 1990-2019



Source: National Response Center

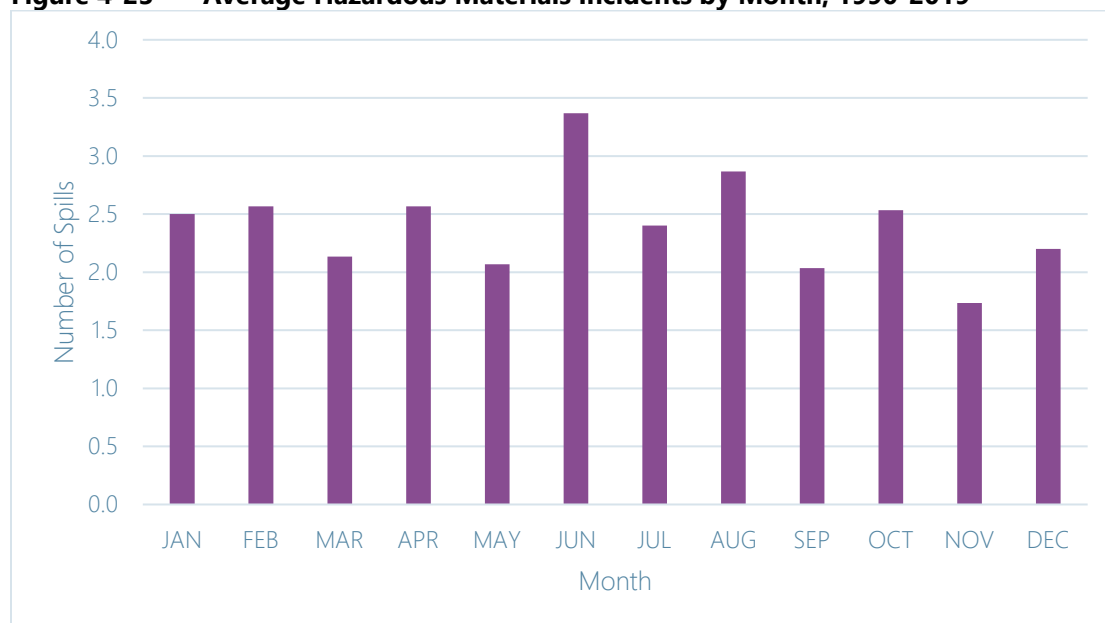
As shown in Table 4-45, the most common types of hazardous material incidents are fixed, with over half of incidents taking place at a fixed facility followed by mobile incidents.

Table 4-45 Hazardous Materials Incidents by Type, 1990 – 2019

Type of Incident	Number of Incidents	Percentage
Fixed	443	51%
Mobile	257	30%
Storage Tank	84	10%
Pipeline	51	5.9%
Unknown Sheen	14	1.6%
Railroad	6	0.7%
Continuous	5	0.6%
Aircraft	5	0.6%
Railroad Non-Release	4	0.5%
Total	869	

Source: National Response Center

While hazardous materials incidents can happen any time of day the most common month for an incident to occur is in the summer months, particularly in June and August. The following figures show the average number of hazardous materials incidents in Adams County in a given month.

Figure 4-23 Average Hazardous Materials Incidents by Month, 1990-2019

Source: National Response Center

Of these 869 reported incidents listed in the NRC data from 1990 through 2019, only 81 (9%) resulted in any reported injuries, fatalities, evacuations, or property damage. Those 81 incidents are listed as resulting in 8 fatalities, 108 injuries (93 requiring hospitalization), 22 evacuations (a total of 899 people) and \$399,000 in property damages. However, it is important to note that the NRC counts all injuries or damages resulting from an accident where hazardous materials were involved, whether or not the injuries or damages were caused by exposure to the hazardous substance; closer analysis shows that a majority of the injuries, fatalities, and property damages were from the physical impacts of the accident that caused the release, rather from exposure to hazardous materials themselves.

Probability of Future Occurrence

It is almost certain that a hazardous material incident will occur in Adams County in the next 10 years. While the County experiences 29 hazardous materials incidents per year on average, only 2.7 incidents a year cause injuries, fatalities, damage, or evacuations. The probability of future occurrence may be more likely in the City of Commerce City as a majority of the fixed facilities are located in the City's planning area.

Magnitude/Severity

Hazardous materials come in the form of explosives, flammable and combustible substances, poisons and radioactive materials. Hazards can occur during production, manufacturing, storage, transportation, use, or disposal. Impacts from hazardous materials releases can include:

- Fatalities
- Injury
- Evacuations
- Property damage
- Animal fatalities (livestock, fish & wildlife)
- Air pollution
- Surface or ground water pollution/contamination
- Interruption of commerce and transportation

Numerous factors influence the impacts of a hazardous materials release, including the type and quantity of material, location of release, method of release, weather conditions, and time of day. This makes it difficult to predict precise impacts. The impact to life and property from any given release depends primarily on:

- The type and quantity of material released.
- The human act(s) or unintended event(s) necessary to cause the hazard to occur.
- The length of time the hazard is present in the area.
- The tendency of a hazard, or that of its effects, to either expand, contract, or remain confined in time, magnitude, and space.
- Characteristics of the location and its physical environment that can either magnify or reduce the effects of a hazard.

The release or spill of hazardous materials can also require different emergency responses depending on the amount, type, and location of the spill incident.

The impacts of major hazardous materials incidents are potentially catastrophic, causing multiple deaths, property damage, and/or interruption of essential facilities and service for more than 72 hours. However, historically the impact of hazardous materials incidents in Adams County have been limited.

Climate Change Considerations

There are no known effects of climate change on human-caused hazards such as hazardous material incidents.

Vulnerability

As described above, GIS analysis was used to overlay the location of each Tier II facility and RMP site with dam inundation layers, wildland urban interface (WUI) intermix layers and 100-year and 500-year floodplain layers. The following table breakdown the number of Tier II facilities and RMP sites that are at risk of dam inundation, flooding or located within the WUI. Most hazardous materials facilities are located vulnerable to dam inundation followed by flooding. In total 189 hazardous materials facilities are at risk of a natural hazard event.

Table 4-46 Hazardous Material Facilities and Potential Hazard Risk

Hazard	# of Tier II Facilities	# of RMP Sites
Flood ¹	60	1
Dam Inundation	111	4
WUI Intermix Zones	13	
Total	184	5
Grand Total	189	

Source: Adams County GIS

¹Includes both 100-year and 500-year flood risk

People

Hazardous materials incidents impact on people is highly dependent on the location of the incident, but can cause injuries, hospitalizations, and even fatalities to people nearby. People living near hazardous facilities and along transportation routes may be at a higher risk of exposure, particularly those living or working downstream and downwind from such facilities. For example, a toxic spill or a release of an airborne chemical near a populated area can lead to significant evacuations and have a high potential for loss of life. As shown in Table 4-37, most of the Tier II facilities and RMP sites in unincorporated Adams County many are located in zone districts which permit single family residential uses.



Vulnerable populations can be more severely impacted by hazardous materials incidents. People with existing health risks or compromised immune systems could be severely affected by releases of even relatively low-impact materials. Low income families may be more likely to live in industrial areas or near hazardous materials routes. Individuals with disabilities may need more time to evacuate, so evacuation notices will need to be issued as soon as feasible, and communicated by multiple, inclusive methods.

General Property

The impact of most fixed facility incidents is typically localized to the property where the incident occurs. The impact of small spills during transportation may also be limited to the extent of the spill and remediated if needed. While cleanup costs from major spills can be significant, they do not typically cause significant long-term impacts to property.

Critical Facilities and Infrastructure

Impacts of hazardous material incidents on critical facilities are most often limited to the area or facility where they occurred, such as at a transit station, airport, fire station, hospital, or railroad. However, they can cause long-term traffic delays and road closures resulting in major delays in the movement of goods and services. These impacts can spread beyond the planning area to affect neighboring counties, or vice-versa. While cleanup costs from major spills can be significant, they do not typically cause significant long-term impacts to critical facilities.

Economy

The primary economic impact of hazardous material incidents results from lost business, delayed deliveries, property damage, and potential contamination. Large and publicized hazardous material-related events can deter tourists and recreationists and could potentially discourage residents and businesses. Economic effects from major transportation corridor closures can be significant not only for Adams County but also for the entire Denver-metro region.

Even small incidents have cleanup and disposal costs, and for a larger scale incident, these could be extensive and protracted. Evacuations can disrupt home and business activities. Large-scale incidents can easily reach \$1 million or more in direct damages, with clean-ups that can last for years.

Historic, Cultural, and Natural Resources

Hazardous material incidents may affect a small area at a regulated facility or cover a large area outside such a facility. Widespread effects occur when hazards contaminate the groundwater and eventually the municipal water supply, or they migrate to a major waterway or aquifer. Impacts on wildlife and natural resources can also be significant.

Future Development

While hazardous material sites are occasionally located near incompatible uses such as single-family homes, the County has set forth in their Comprehensive Plan to develop policies for the development of future hazardous materials facilities away from existing residential uses as well as a goal of increased coordination between the Planning Commission and the LEPC when reviewing development applications including changes to a parcels existing zone type.

Risk Summary

- There were 869 hazardous materials incidents reported between 1990-2019, an average of 29 incidents per year. Roughly half of these incidents were at fixed facility sites.
- Only 81 incidents resulted in injuries, fatalities, or evacuations, an average of 2.7 per year. However, most of the fatalities or injuries were caused by the accident, rather than from exposure to a hazardous material.



- 10 incidents between 1990-2019 caused damages to property resulting in \$399,000 in damages.
- There are 707 Tier II facilities and 14 RMP sites classified as Risk Management Plan facilities.
- *Related Hazards:* Cyber Incident, Dam Failure, Earthquake, Flood, Severe Thunderstorms, and Wildfire

Table 4-47 Hazardous Materials Incident Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Limited	Likely	Limited	Medium
Bennett	Significant	Likely	Limited	Medium
Brighton	Limited	Likely	Limited	Medium
Commerce City	Significant	Highly Likely	Critical	High
Denver Water	Limited	Likely	Negligible	Low

4.3.7 Winter Weather

Hazard Description

Winter storms can include heavy snow, ice, blizzard conditions, and extreme cold temperatures. Heavy snow can immobilize a region, stranding commuters, stopping the flow of supplies, and disrupting emergency and medical services. Accumulations of snow can collapse roofs and knock down trees and power lines. Severe winter storms can cause homes and farms to be isolated for days, and unprotected livestock may be lost. The cost of snow removal, damage repair, and business losses can have a tremendous impact on communities.

Heavy accumulations of ice can bring down trees, electrical wires, telephone poles and lines, and communication towers. Communications and power can be disrupted for days until damage can be repaired. Even small accumulations of ice may cause extreme hazards to motorists and pedestrians.

Some winter storms are accompanied by strong winds, creating blizzard conditions with blinding wind-driven snow, severe drifting, and dangerous wind chills. Strong winds with these intense storms and cold fronts can knock down trees, utility poles, and power lines. Blowing snow can reduce visibilities to only a few feet in areas where there are no trees or buildings. Serious vehicle accidents can result with injuries and deaths.

Extreme cold often accompanies a winter storm or is left in its wake. Prolonged exposure to the cold can cause frostbite or hypothermia and can become life-threatening. Infants and the elderly are most susceptible. Pipes may freeze and burst in homes or buildings that are poorly insulated or without heat. Extreme cold is most likely to occur in the winter months of December, January, and February. What constitutes extremely cold temperatures varies across different areas of the United States, based on normal climate temperatures for the time of year. In Colorado, cold temperatures are normal during the winter. When temperatures drop at least 20 degrees below normal winter lows, the cold is considered extreme and begins to impact the daily operations of a community. Extreme cold/wind chill impacts inanimate objects, plants, animals, and water supplies.

The effects of extremely cold temperatures are amplified by strong to high winds that can accompany winter storms. Wind-chill measures how wind and cold feel on exposed skin and is not a direct measurement of temperature. Animals are also affected by wind-chill; however, cars, buildings, and other objects are not.

Winter storms in Adams County, including intense winds and blizzard conditions, can result in property damage, localized power and phone outages, and closures of streets, highways, schools, businesses, and



nonessential government operations. People can also become isolated from essential services in their homes and vehicles. A winter storm can escalate, creating life threatening situations when emergency response is limited by severe winter conditions. Other issues associated with severe winter weather include hypothermia and the threat of physical overexertion that may lead to heart attacks or strokes. Snow removal costs can also impact budgets significantly. Heavy snowfall during winter can also lead to flooding or landslides during the spring if the area snowpack melts too quickly.

Geographic Location

Extensive - The entire County is susceptible to severe winter storms, and winter storms typically affect significant portions of the County.

Adams County weather can be severe during the spring and winter months. There can be long periods of sub-degree temperatures in the winter. Blizzards can occur in late spring. Wind and snow blizzards cause whiteouts and drifting snow of 2 to 3 feet and more. Winds can be extremely strong, up to 100 mph in the spring.

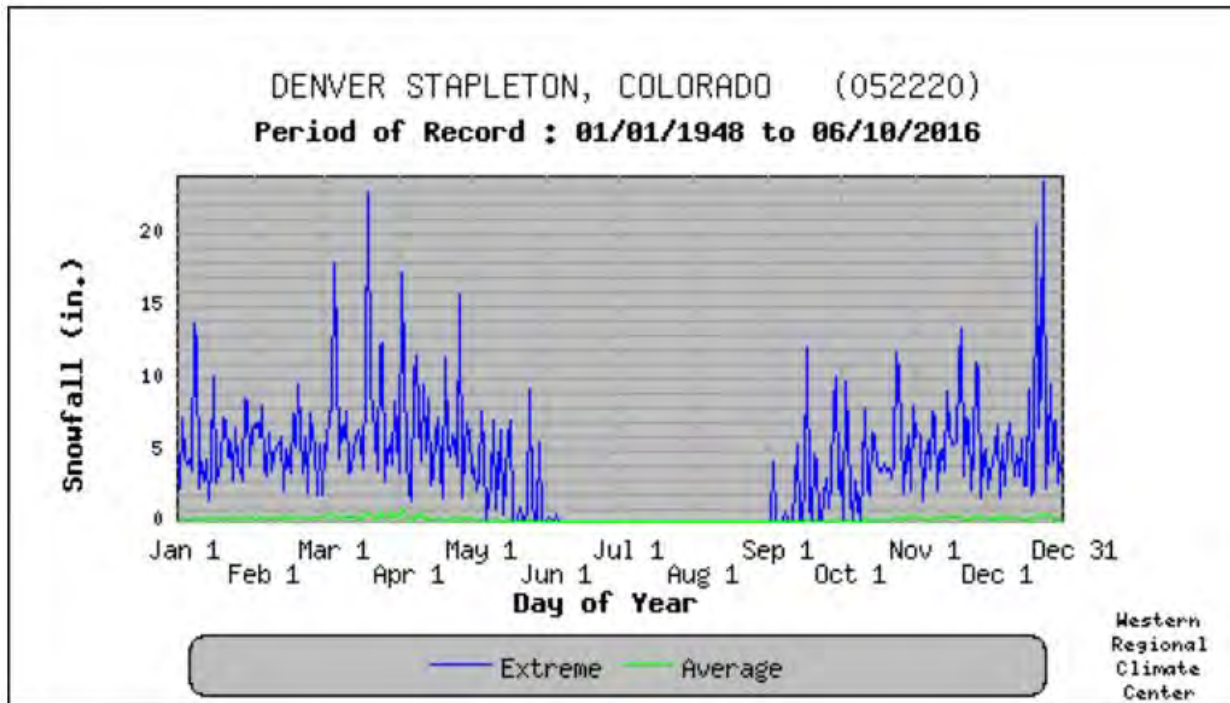
Adams County is uniformly exposed to severe winter storms. Winter storms occur in many forms and can vary significantly in size, strength, intensity, duration, and impact. High winds create snowdrifts, which can block roads and create dangerous wind chill factors. Storms or freezing temperatures are not needed for wind chill conditions to become dangerous. The NWS issues a wind chill advisory when wind and temperature combine to produce wind chill values of 20 degrees from zero to 35 degrees below zero. Hypothermia and frostbite are two consequences of wind chill. Hypothermia is the most common winter weather killer in Colorado. Ice accumulation becomes a hazard by creating dangerous travel conditions. When ice accumulates on roadways, the risk of losing control of a vehicle becomes much greater.

Previous Occurrences

September through April is primary season for significant snowfalls, with December/January producing colder and dryer snow storms and March/April producing wet and heavy snowfall. The Western Regional Climate Center reports data from weather stations in and around Adams County. The data reported here is from the Denver WSFO AP, COOP Station number 052220 with a period of record of January 1, 1948 to June 10, 2016. Table 4-50 contains winter weather summaries for this weather station. Figure 4-24 and Figure 4-25 show daily snowfall and temperature averages and extremes.

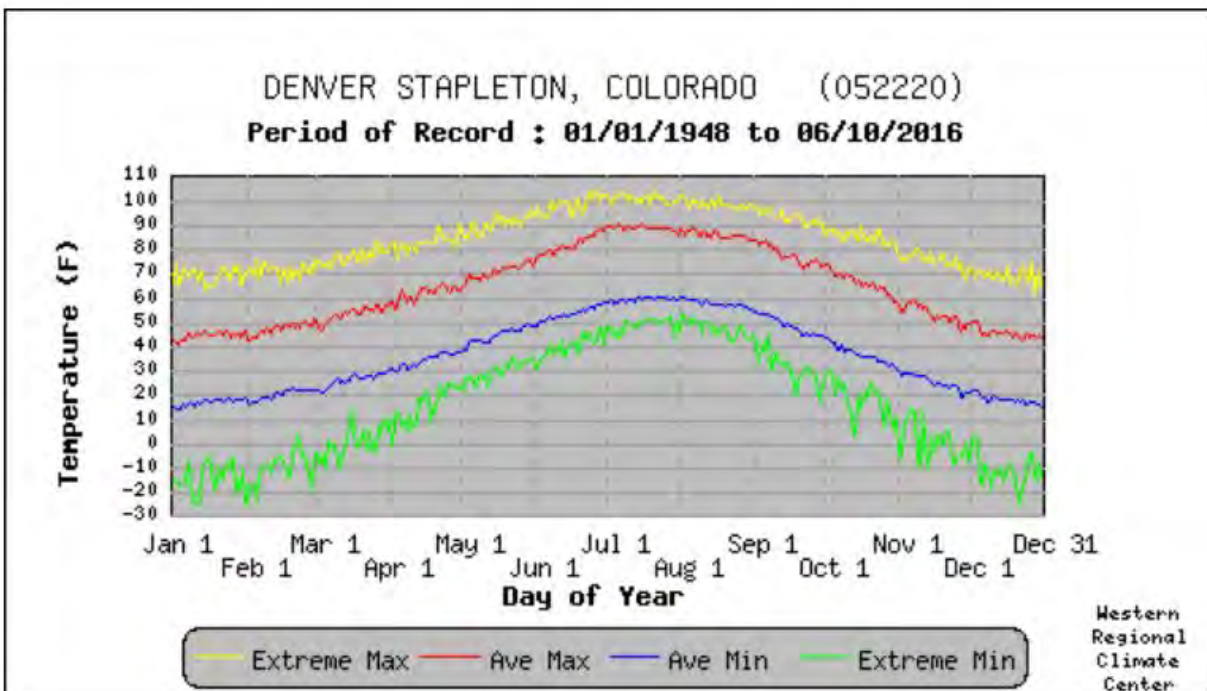


Figure 4-24 Adams County Snowfall Averages and Extremes: 1948-2016



Source: Western Regional Climate Center

Figure 4-25 Adams County Temperature Averages and Extremes: 1948 – 2016



Source: Western Regional Climate Center

Several major winter storms and blizzards have occurred in the planning area over the past several decades. Profiles of some of the more severe storms were obtained from the NCEI Storm Events Database. According to the Database there have been 185 severe winter storm events (includes blizzard, heavy



snow, winter storm and winter weather events) between January 1, 1950 and December 31, 2018 that have impacted Adams County. Those 185 events resulted in four deaths, all of which were a result of extreme cold, and 17 injuries as a result of a blizzard event or extreme cold. The following table summarizes the events recorded in the Storm Events Database.

Table 4-48 NCEI Severe Winter Storm Event Reports for Adams County, 1950-2018

Event Type	# of Events	Property Damage (\$)	Crop Damage (\$)	Deaths	Injuries
Winter Storm	73	0	0	0	0
Winter Weather	34	0	0	0	0
Heavy Snow	45	0	0	0	0
Blizzard	25	\$18,600,000	0	0	2
Cold/Extreme Cold/Wind Chill	6	0	0	4	15
Frost/Freeze	2	0	\$10,000,000	0	0
Totals	185	\$18,600,000	\$10,000,000	4	17

Source: National Center for Environmental Information Storm Events Database, www.ncdc.noaa.gov/stormevents/

*Hazards with wide extents have losses which reflect larger zones that extend beyond Adams County

The Storm Events Database collects information on each event from a variety of sources including but not limited to, county, state and federal emergency management officials, newspaper clipping services, the insurance industry and the general project. Crop damages recorded in the Database should be considered broad estimates according to the National Weather Service. As discussed in the Section 4.3.3 Drought, the Cause of Loss Database maintained by the USDA Risk Management Agency helps to quantify the economic impact different natural hazards have on the agriculture in the County.

Crop losses as a result of winter weather events including, cold wet weather, cold winter, freeze and frost events, occurred in Adams County every year between 2007 and 2018. Freeze was the most common cause of loss, occurring in all 11 years. While the year 2015 experienced the most crop losses with over \$2 million in losses claimed and over 44,000 acres affected. In total, over 57,000 acres were affected, and over \$3 million losses claimed in that 11-year period due to winter weather related hazards.

Table 4-49 Crop Insurance Claims due to Winter Weather Related Hazards, 2007-2018

Year	Cause of Loss	Determined Acres	Indemnity Amount
2007	Frost	25.34	\$462
	Freeze	373.31	\$35,635
	Cold Winter	63	\$11,264
2008	Frost	31.34	\$2,885
	Freeze	760.20	\$59,440
	Cold Winter	261.80	\$67,228
2009	Freeze	297.81	\$15,214
	Cold Wet Weather	1,252.66	\$34,191
2010	Cold Winter	120.29	\$1,121
2011	Freeze	148.44	\$14,048
	Cold Winter	243.27	\$23,331
2012	Freeze	88.35	\$22,607
2013	Freeze	1,472.77	\$107,775
	Cold Winter	110.68	\$8,178
	Cold Wet Weather	380.49	\$13,799
2014	Freeze	165.13	\$8,604
2015	Freeze	33,544.18	\$1,523,813



Year	Cause of Loss	Determined Acres	Indemnity Amount
	Cold Winter	8,057.12	\$620,256
	Cold Wet Weather	3,101.31	\$176,386
2016	Freeze	77.70	\$5,191
	Cold Winter	105.86	\$9,818
2017	Frost	281.84	\$89,804
	Freeze	850.92	\$46,388
	Cold Winter	5,960.60	\$204,478
2018	Freeze	0.00	\$9,977
Total		57,774	\$3,111,892

Source: USDA RMA

The following event narratives were recorded in the Storm Events Database:

December 18, 1998 - An Arctic air mass settled in over northeastern Colorado dropping overnight temperatures well below zero for 6 consecutive days. Overnight temperatures bottomed out at 19 degrees below zero on the morning of the 22nd. At least 15 people, mostly homeless, were treated for hypothermia at area hospitals. The bitter cold weather was responsible, either directly or indirectly, for at least 5 fatalities. Three of the victims died directly from exposure. The cold weather also caused intermittent power outages. Following the cold snap, thawing water pipes cracked and burst in several homes and business causing extensive damage. No estimate of the damage, however, was available.

March 17, 2003 - A very moist, intense and slow moving Pacific storm system made its way across the four corners area and into southeastern Colorado from March 17th to the 19th, allowing for a deep easterly upslope flow to form along the Front Range. The storm dumped 31.8 inches of snow at the former Stapleton International Airport, good enough for second place in the Denver weather history record book. The storm also managed to vault March 2003 into first place for the snowiest March in Denver history and fifth place for the wettest March on record. In addition, the storm allowed the month of March to break a streak of 19 consecutive months of below normal precipitation in Denver. The Mayor of Denver said, "This is the storm of the century a backbreaker, a record breaker, a roof breaker." The heavy wet snow caused roofs of homes and businesses to collapse across the Urban Corridor. The snow also downed trees branches and power lines. Up to 135,000 people lost power at some point during the storms and it took several days in some areas to restore power. Avalanches in the mountains and foothills closed many roadways including Interstate 70 in both directions stranding hundreds of skiers and travelers. Denver International Airport (D.I.A.) was also closed stranding approximately 4000 travelers. In all the estimated cost of the damage to property alone (not including large commercial buildings) was \$93 million making it easily the costliest snowstorm ever in Colorado. The second costliest snowstorm was the 1997 blizzard where damage totaled \$10.5 million.

The HMPC shared the following severe winter storm event:

March 13 -14, 2019 – A "bomb" cyclone including extreme cold and blizzard conditions lasting for two days impacted the Denver metro area in March 2019. The Town of Bennett reported the Town's tornado siren was damaged as well as the roofs of several buildings. Businesses, schools and government operations, with the exception of Public Works in Bennett were closed for two day. Interstate 70 was also closed during the event leaving drivers stranded and vehicles abandoned. The Bennett Recreation Center was opened as a shelter for stranded drivers.

The City of Commerce City was also impacted by the severe winter storm and reported downed trees and power outages as a result of downed electrical lines. The City experienced minor damage to some of the



City's building roofs. Businesses and schools were closed for two days and government buildings for one days. East 96th Avenue was closed for the extent of the storm.

Probability of Future Occurrence

More damaging severe storms may have a slightly lower frequency of occurrence. Based on the data presented above, it is likely that a damaging winter storm will occur every 2.7 years. Based on the data presented above, there have been 185 winter storm events in the past 68 years that have occurred within the planning area. It is highly likely that in a given year the planning area will experience a severe winter storm.

Magnitude/Severity

Table 4-50 contains winter weather summaries from the Denver WSFO AP, COOP Station number 052220 with a period of record of January 1, 1948 to June 10, 2016.

Table 4-50 Adams County Winter Weather Summary in Inches

Average Annual Snowfall	Snowiest Month/Average Snowfall	Highest Daily Snowfall	Highest Monthly Snowfall	Highest Seasonal Snowfall	Average Snow Depth	Winter Average Minimum Temp.	Minimum Temp.	# of Days <32°F/Year
58	March 11.9"	35.2" March 2003	35.2" March 2003	112.0" 1959	1"	18.5°F	-25°F 2/1/1951	155.5

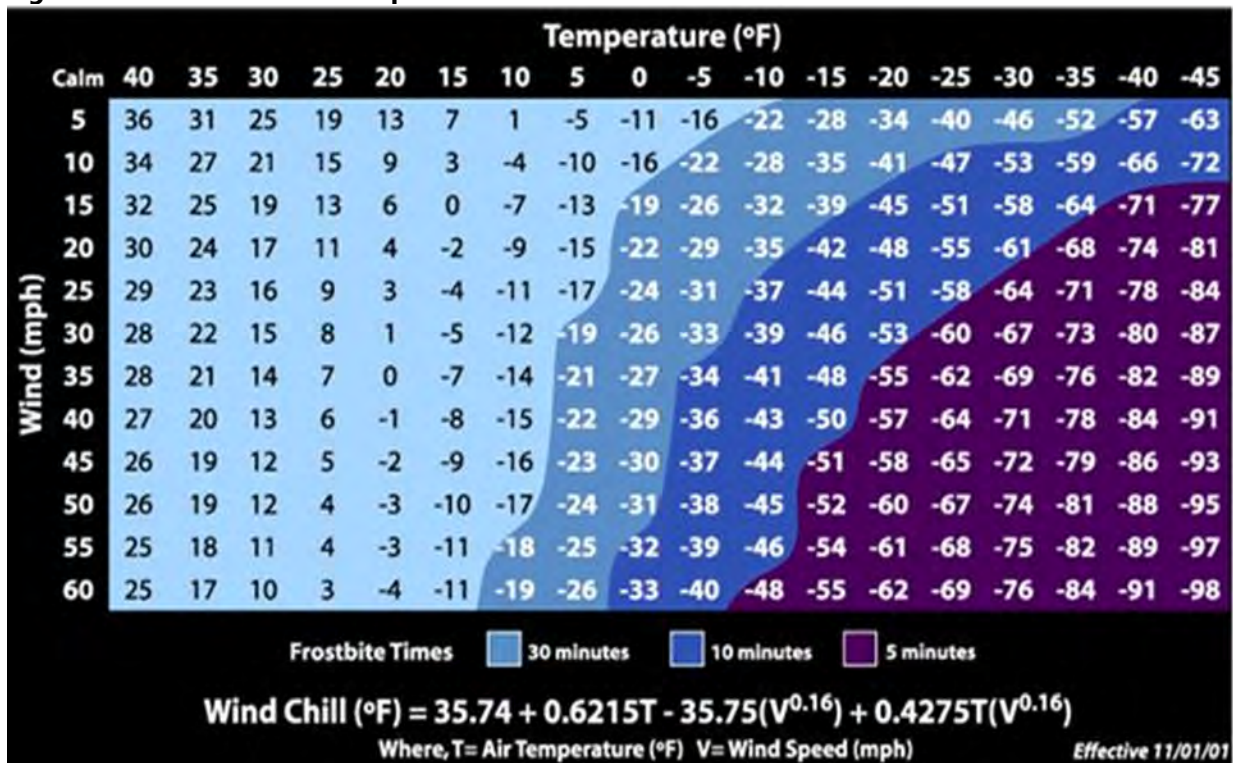
Source: Western Regional Climate Center, www.wrcc.dri.edu/ *Winter Months; December, January, February *Period of Record: 1/1/1948 – 6/10/2016

Overall, severe winter storm impacts could be limited, but the potential for heavy snow and blizzard events as defined by the National Weather Service are possible. Snow removal costs can impact budgets significantly. High snow loads also cause damage to buildings and roofs. Most property damages with winter storms are related to the heavy snow loads and vehicle accidents. The highest risk will be to travelers that attempt to drive during adverse conditions. People can also become isolated from essential services in their homes and vehicles. Economic impacts occur because of power outages and closures of Interstate 70 due leaving residents and visitors stranded as well as interrupting the transport of supplies and services into the area for an extended period. A winter storm can escalate, creating life threatening situations when emergency response is limited by severe winter conditions. Extreme cold associated with a severe winter storm can lead to frozen pipes as well as physical risks of hypothermia and the threat of physical overexertion that may lead to heart attacks or strokes.

In 2001, the National Weather Service (NWS) implemented an updated Wind Chill Temperature index, which is reproduced in Figure 4-26. This index was developed to describe the relative discomfort/danger resulting from the combination of wind and temperature. Wind chill is based on the rate of heat loss from exposed skin caused by wind and cold. As the wind increases, it draws heat from the body, driving down skin temperature and eventually the internal body temperature.



Figure 4-26 Wind Chill Temperature Chart



Source: National Weather Service

The NWS has defined winter season watches, warnings, and advisories based on specific criteria. The following is a breakdown on the various warnings that could be issued:

- **Ice Storm Warning** is issued when a period of freezing rain is expected to produce ice accumulations of 1/4" or greater, or cause significant disruptions to travel or utilities.
- **Heavy Sleet Warning** is issued when a period of sleet is expected to produce ice accumulations of 1" or greater, or cause significant disruptions to travel or utilities.
- **Heavy Snow Warning** is issued when snow is expected to accumulate 4 inches or more in 12 hours, or 6 inches or more in 24 hours.
- **Winter Storm Warning** is issued for a winter weather event in which there is more than one hazard present, and one of the warning criteria listed above is expected to be met.
- **Blizzard Warning** is issued for sustained wind or frequent gusts greater than or equal to 35 mph accompanied by falling and/or blowing snow, frequently reducing visibility to less than 1/4 mile for three hours or more. Watches are issued when conditions may be met 12 to 48 hours in the future.
- **Wind Chill Warning** is issued when wind and temperature combine to produce wind chill values of -35°F.
- **Winter Weather Advisory** is issued when wintry weather is expected, and caution should be exercised. Light amounts of wintry precipitation of patchy blowing snow will cause slick conditions and could affect travel if precautions are not taken

Climate Change Considerations

Climate change has the potential to exacerbate the severity and intensity of winter storms, including potential heavy amounts of snow. A warming climate may also result in warmer winters, the benefits of which may include lower winter heating demand, less cold stress on humans and animals, and a longer

growing season. However, these benefits are expected to be offset by the negative consequences of warmer summer temperatures which could have statewide economic impacts.

The effects of climate change in Colorado have already been observed. The following climate change observations are noted in the 2018 Colorado State Hazard Mitigation Plan:

- Snowpack, as measured by April 1, 2018 snow-water equivalent (SWE), has been mainly below average since 2000 in all of Colorado's river basins, but long-term (30-year, 50-year) declining trends have been detected.
- The timing of snowmelt and peak runoff has shifted earlier in the spring by 1 to 4 weeks across the state's river basins over the past 30 years, due to the combination of lower SWE since 2000, the warming trend in spring temperatures, and enhanced solar absorption from dust-on-snow.

Vulnerability

People

The threat to public safety is typically the greatest concern when it comes to impacts of winter storms. While virtually all aspects of the population are vulnerable to the potential indirect impacts of a winter storm, others may be more vulnerable, such as the elderly, particularly if there is a loss of electrical power. The weight of heavy continued snowfall and/or ice accumulating on power lines often brings them to the ground causing service disruptions for thousands of customers. According to data from the U.S. Department of Health and Human Services' empower Map site, 7,448 of the 56,909 Medicare Beneficiaries in the Adams County rely on electric-dependent medical equipment such as ventilators, to live independent in their homes. In addition, prolonged power outages can also have economic impacts if there is a loss of food in grocery stores and other facilities such as restaurants.

Cold and extreme cold temperatures have caused the majority of winter weather related casualties in the County. Infants, elderly and the homeless population are most vulnerable to the impacts of extreme cold. Exposure to extreme cold can cause frostbite or hypothermia and, in some cases, even death.

The region can experience high winds and drifting snow during winter storms that can occasionally isolate individuals and entire communities and lead to serious damage to infrastructure. Travelers on I-70 in the eastern portions of the planning area and residents of the Town of Bennett, can become isolated and visitors can become stranded, requiring search and rescue assistance and shelter provisions.

The impacts of winter weather on vulnerable populations can be more severe. As noted above, senior citizens in particular are much more vulnerable to cold temperatures, and slipping on ice can lead to severe injuries. People with disabilities or those who rely on home health care may be at increased risk if travel becomes difficult; similarly, individuals who are need regular dialysis treatments can become medical emergencies if roads are impassible.

General Property

Structural losses to buildings are possible and structural damage from winter storms in Colorado have resulted from severe snow loads on rooftops. Older buildings are more at risk, as are buildings with large flat rooftops (often found in public buildings such as schools). Vulnerability is influenced both by architecture and type of construction material and should be assessed on a building-by-building basis.

Critical Facilities and Infrastructure

Roads are especially susceptible to the effects of a winter storm, which can temporarily hinder transportation and require resources for snow removal. Interstate 70 is the only through road in the eastern Adams County and closure of the highway would leave the Town of Bennett isolated from emergency services. As noted under the people section, heavy snow accumulation may also lead to



downed power lines not only causing disruption to customers but also have potentially negative impacts on critical facilities in the county which may have cascading impacts on the County governments ability to operate.

Economy

Closure of Interstate 70 in eastern Adams County during winter storms could temporarily isolate Bennett. Depending on the length of the closure it could also hinder the local economy and the movement of goods through the county.

Historic, Cultural, and Natural Resources

Natural resources may be damaged by the severe winter weather, including broken trees and death of wildlife. Unseasonable storms may damage or kill plants and wildlife, which may impact natural food chains until the next growing seasons. Most of these impacts would be short-term. As noted previously, older, historic buildings could potentially be more vulnerable to roof and structural damage from heavy snow.

Future Development

Future buildings that conform to local building codes should be able to withstand snow loads from severe winter storms. Given building and population trends in the planning area, it is not anticipated that more persons will be exposed to the winter storm hazard in the future.

Risk Summary

- Winter storms often bring heavy snow and sometimes blizzard conditions to the County.
- In the past 68 years the County has experienced 185 winter storm events.
- Exposure to extreme cold has led to the majority of casualties (19) in Adams County.
- 7,448 Medicare Beneficiaries in the County rely on electric equipment and are more vulnerable to power outages due to a winter storm event.
- Winter weather resulted in over \$3 million in crop insurance claims and affected over 57,000 acres between 2007-2018. Freeze was the most common cause of loss.
- Severe winter weather can isolate residents and travelers by closing I-70 into and out of the eastern portions of the County.
- Heavy snow can lead to limited structural damage.
- Power outages are possible in severe winter storms.
- Related Hazards: Damaging wind

Table 4-51 Winter Weather Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Extensive	Highly Likely	Limited	High
Bennett	Extensive	Highly Likely	Critical	High
Brighton	Significant	Highly Likely	Limited	Medium
Commerce City	Significant	Highly Likely	Limited	Medium
Denver Water	Limited	Highly Likely	Negligible	Low

4.3.8 Subsidence

As defined by the United States Geological Survey (USGS), subsidence is the gradual settling or sudden sinking of earth's surface due to movement of earth materials. Primary causes of subsidence include



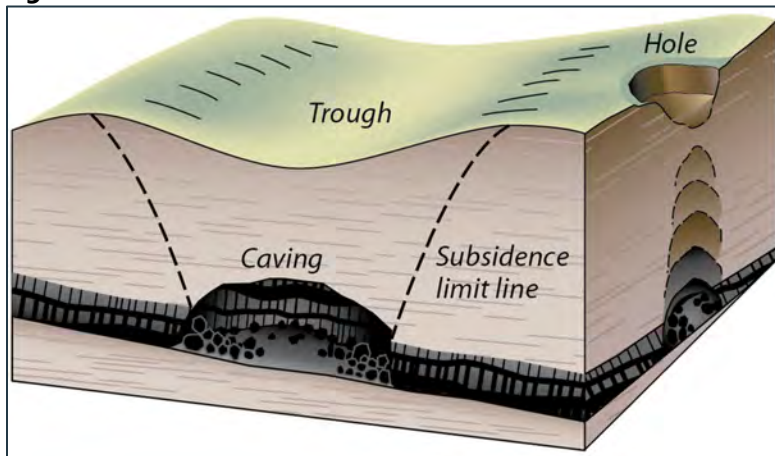
aquifer-system compaction, drainage of organic soils, underground mining, hydrocompaction, natural compaction, sinkholes, and thawing permafrost (USGS 2017). Depending on the cause, subsidence can occur rapidly or gradually, and it can be highly localized or uniformly affect a wide area.

Subsidence can be affected by periods of drought and precipitation. Collapsing soils are generally strong when dry but are subject to rapid collapse and can reduce in volume by 10 to 15% when wet.

Per the 2018 Colorado State Hazard Mitigation Plan, land subsidence is most common and of greatest concern in the sedimentary rocks over abandoned coal, hard rock, and clay mines. These areas are also referred to as undermined areas.

The Colorado Geological Survey defines mine subsidence as “the movement of the earth’s surface caused by the collapse of underground mine voids or entries. Over time, gravity and the weight of the rock overlying the mine cause the layers of rock to shift and fall downward into the mine area. As one layer falls down, the void moves upward toward the ground surface where it can cause holes, cracks, tilting, and sags. Even a few inches of settlement can cause significant damage to structures, roads, and utilities. Mine subsidence can occur abruptly or gradually over many years.” Figure 4-27 illustrates the underground causes of coal mine subsidence and depicts how the impacts can manifest at the surface (CGS 2010).

Figure 4-27 Coal Mine Subsidence

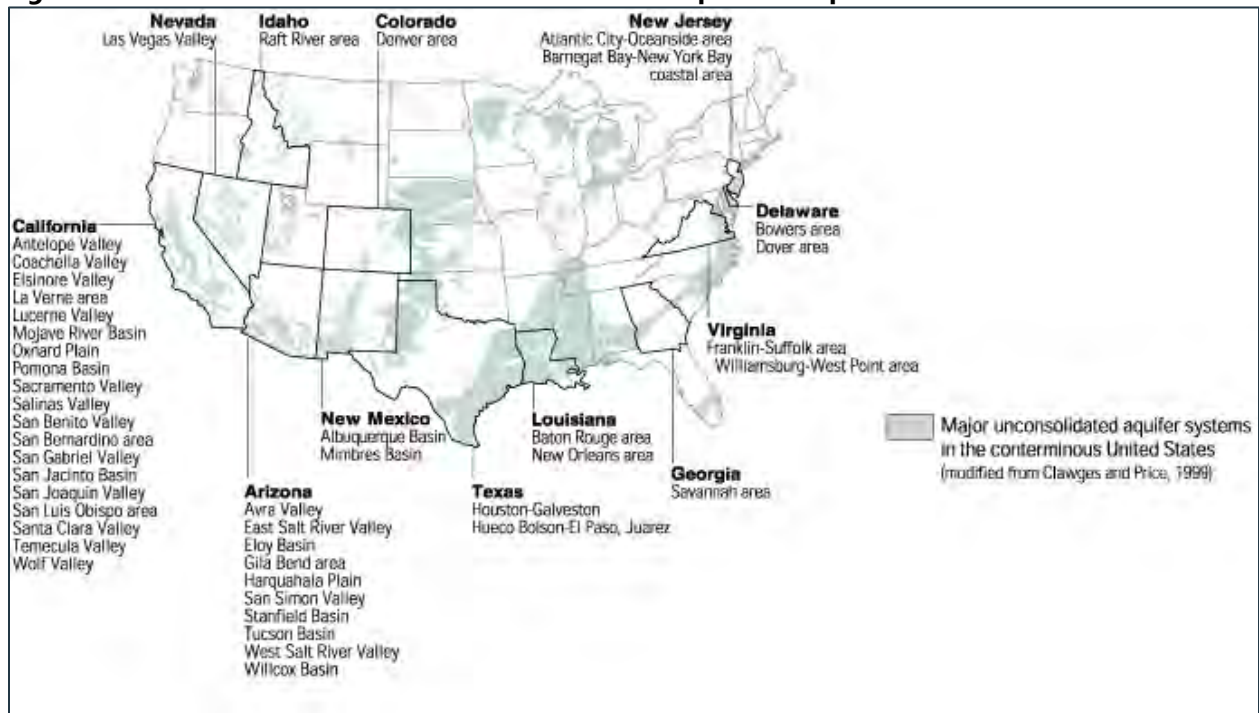


Source: Colorado Geological Survey

The State plan notes that land subsidence can also happen where significant groundwater extraction occurs as well as where evaporite bedrock dissolves and forms areas with karst morphology, which are characterized by underground drainage systems such as caverns or caves. Figure 4-28 shows that there is some potential for subsidence due to aquifer compaction around Adams County. Figure 4-29 shows that evaporite rocks generally underlie the Adams County area. However, these rock formations may not be near enough to the surface to pose a subsidence risk.

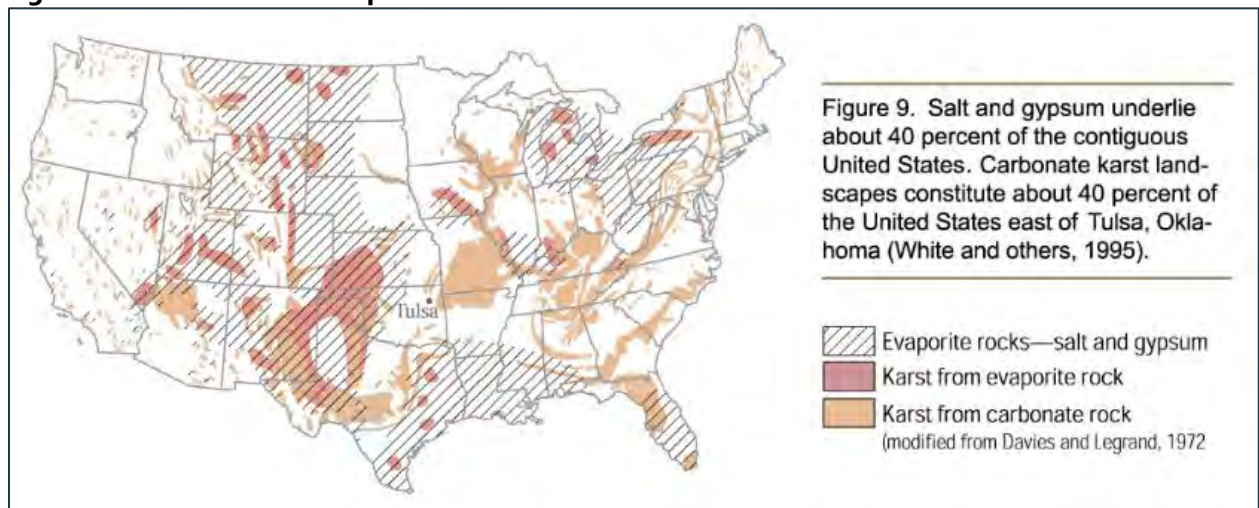


Figure 4-28 Areas of Potential Subsidence Due to Aquifer Compaction



Source: USGS Fact Sheet-165-00, December 2000

Figure 4-29 Karst and Evaporite Rock Formations



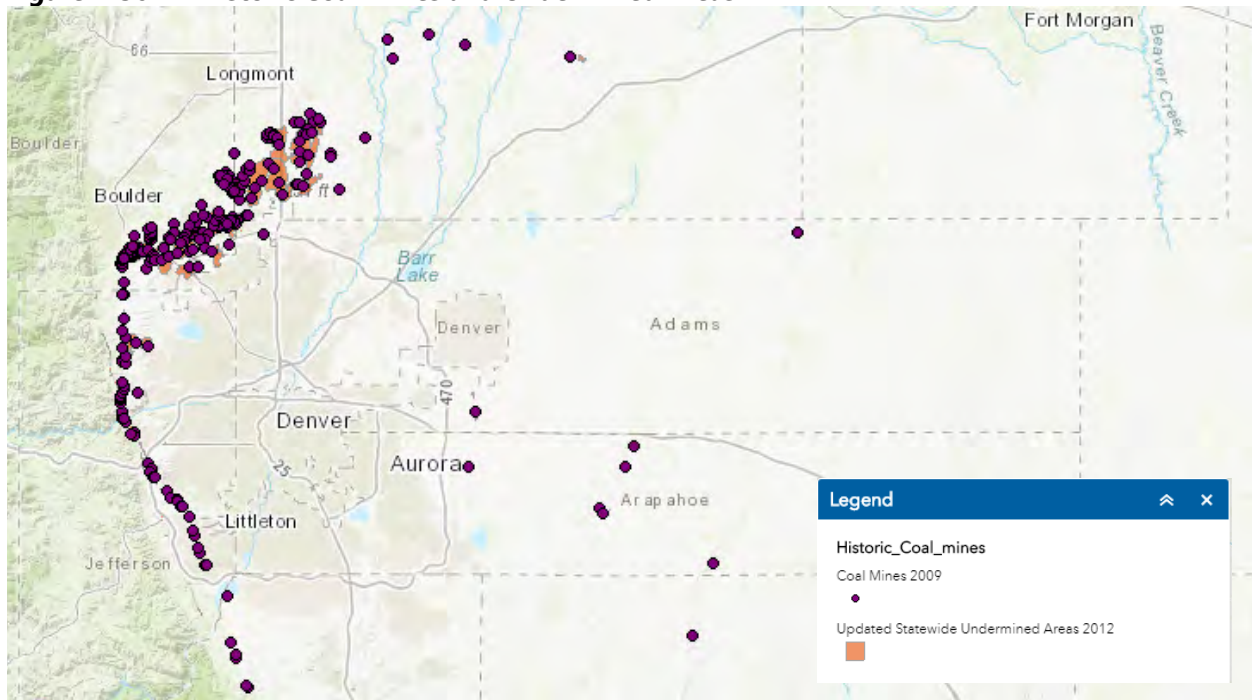
Source: USGS Fact Sheet-165-00, December 2000

Geographic Location

According to the 2018 Colorado State Hazard Mitigation Plan and data from the Colorado Geological Survey, Adams County does not contain potential natural subsidence areas, karst, or sinkholes. However, there are a number of known abandoned mines in the county, as shown in Figure 4-30. (Each dot may represent more than one mine.) These historic coal mines indicate areas of potential undermined areas. Additionally, areas of historic collapsible soil events, shown in Figure 4-31, may be susceptible to future subsidence.



Figure 4-30 Historic Coal Mines and Undermined Areas



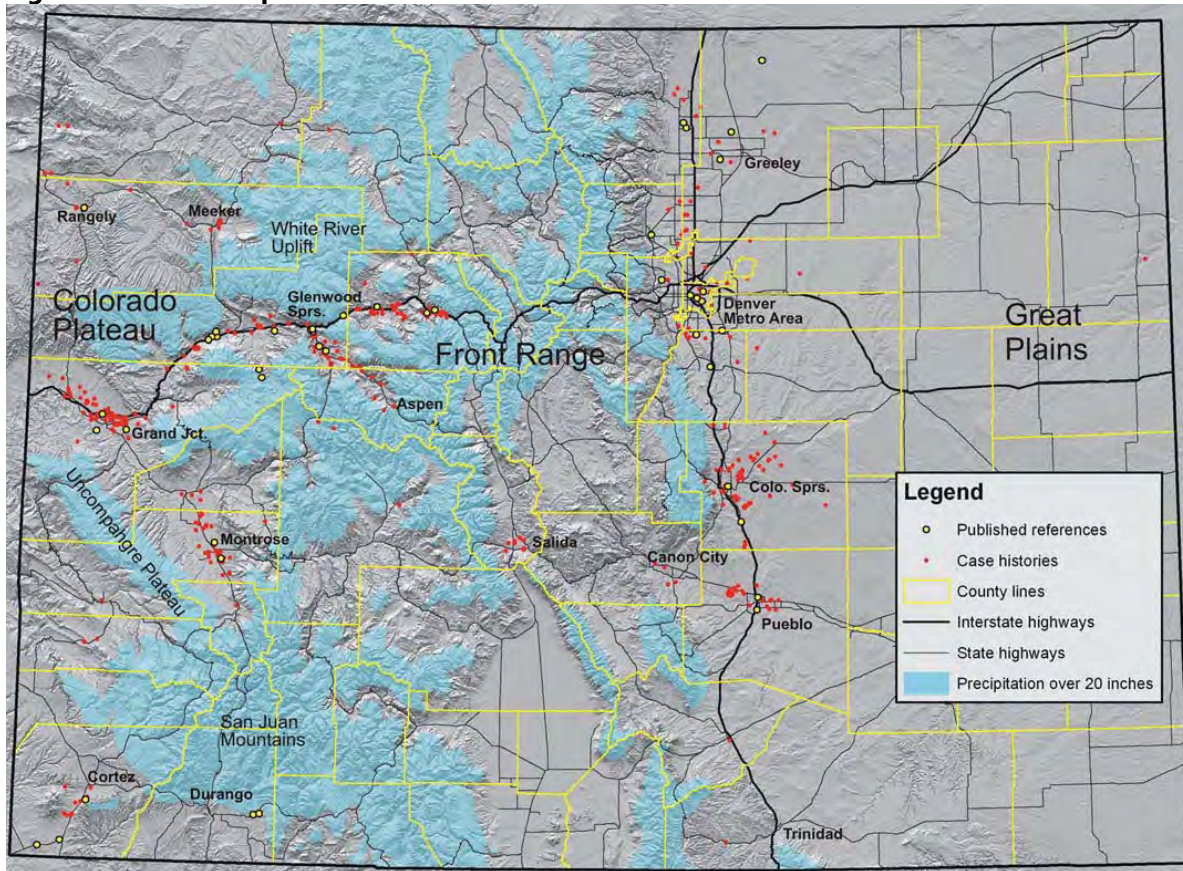
Source: Colorado Geological Survey

Previous Occurrences

Subsidence has been an issue historically along the Front Range; however, Adams County has limited case history of collapsible soil issues. Colorado Geological Survey identifies several past collapsible soil incidents in the County, as shown in Figure 4-31, but event details are not available.



Figure 4-31 Collapsible Soil Case Histories in Colorado



Source: Colorado Geological Survey cited in 2018 Colorado State Hazard Mitigation Plan

Probability of Future Occurrence

Due to the presence of collapsible soils and historic coal mines in the planning area, future subsidence events are possible. However, without clear data on historic occurrences, future probability is difficult to predict.

Probability of subsidence is influenced by flood and drought, both of which are likely to occur. Periodic flooding and draining of abandoned mines can cause shifts in mine structures and increase the risk of subsidence. Development activities that cause ground vibrations may also accelerate subsidence. Additionally, as development continues and expands into undermined areas, the probability of damaging subsidence events will increase. Similarly, with continued demand for mined materials, mining activities may expand and increase the area of exposure to subsidence and the probability of subsidence occurrences.

Given there is some limited evidence of past occurrences, it can be reasonably concluded that there is at least a 1% annual chance of some degree of subsidence within the County; therefore, future probability is considered occasional. On a smaller scale, an individual property can be examined for subsidence probability by performing site-specific investigations and exploratory drilling to determine whether the area is undermined. These tests can also allow for mitigation prior to construction.

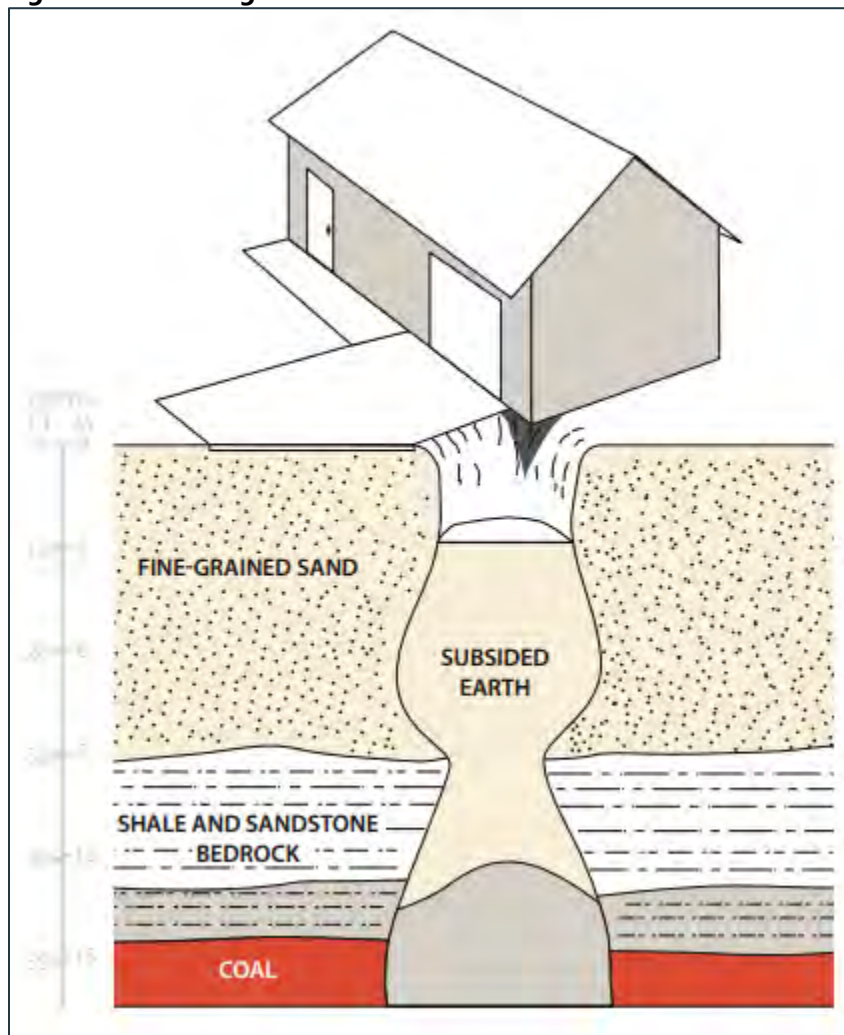


Magnitude/Severity

The magnitude of a subsidence event can vary substantially, from a gradual settling to an abrupt ground opening. The extent of subsidence depends on the soil composition and susceptibility to collapse. In the case of subsidence related to undermined areas, the severity depends on the depth and geometry of the mine, how much coal was extracted, the overlying geology, and groundwater fluctuations (CGS 2010). Areas can appear to be free of subsidence for many years, and then undergo renewed gradual or even drastic subsidence.

Figure 4-32 shows an example of how a subsidence hole might form under a structure.

Figure 4-32 Diagram of Subsidence Pit Under a Structure



Source: State of Colorado Department of Natural Resources Colorado Division of Reclamation, Mining & Safety and the Colorado Geological Survey; Turney, J.E., 1985, Special Publication 26, Subsidence Above Inactive Coal Mines: Information for the Homeowner

Climate Change Considerations

The future impacts of climate change are not expected to influence future subsidence or abandoned mine land hazard events. However, related hazards of drought and flood, which may affect subsidence occurrence and severity, are likely to be impacted by climate change. See Section 4.3.3. and Section 4.3.5 for discussions of climate change considerations for drought and flood, respectively.

Vulnerability

Risk to subsidence is difficult to quantify for Adams County due to the limited data on undermined areas and collapsible soils. Additionally, risk varies greatly depending on the magnitude of the event. The vulnerability information below is based on qualitative and anecdotal information.

People

In most cases of subsidence, injuries and fatalities are unlikely to occur. However, when abandoned mine lands or collapsible soils result in sinkholes, people may be injured if they are directly at the event location or are in structures or infrastructure that are affected by the event.

General Property

Subsidence can cause anything from minor cracking in structures and building foundations to complete undermining of structural integrity and building collapse. Roads, irrigation ditches, underground utilities, and pipelines can also be impacted. It is possible that many homes have been built over undermined areas and may be at risk to subsidence.

Critical Facilities and Infrastructure

Roads, utilities, irrigation ditches, pipelines, and other critical facilities may sustain damage from subsidence, ranging from minor cracking in road surfaces to major destruction. Damages to roads or utilities may cause interruptions in continuity of services.

Economy

Localized subsidence events are unlikely to affect the County's economy, however the repair costs for buildings, irrigation works, roads, utilities, and other infrastructure can be high. Additionally, remediation costs can be high due to costly foundation shoring or cost of stabilization of the hole itself.

Historic, Cultural, and Natural Resources

When subsidence occurs as a result of groundwater pumping it can have irreversible consequences for water supply. Excessive pumping can cause soil compaction that reduces the size and number of open pore spaces in the soil that previously held water, resulting in a permanent loss of storage in the aquifer system.

Future Development

Future growth and development throughout Adams County will increase demand for water. If this increased demand results in increases in groundwater extraction, land subsidence due to aquifer compaction may become more common.

Future development may also increase risk by increasing exposure to subsidence. Many old mines are located near present urban areas, and as urban areas grow and expand, development may occur over undermined areas. According to the 2018 Colorado State Hazard Mitigation Plan, as Colorado's population has grown in the past 25 years, many homes have been built over abandoned mines and many homeowners are unaware of this hazard.

Risk Summary

- Adams County is at risk to subsidence from collapsible soils and undermined areas.
- Related hazards: Flood, Drought



Table 4-52 Subsidence Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Limited	Occasional	Limited	Low
Bennett	Limited	Unlikely	Limited	Low
Brighton	Limited	Occasional	Limited	Low
Commerce City	Limited	Likely	Negligible	Low
Denver Water	Limited	Unlikely	Limited	Low

4.3.9 Terrorism/Active Shooter

Hazard Description

There is no single globally agreed-upon definition of terrorism. In a broad sense, terrorism is the use of violence and threats to intimidate or coerce, especially against civilians, in the pursuit of political aims. Terrorism is defined in the United States by the Code of Federal Regulations as “the unlawful use of force or violence against persons or property to intimidate or coerce a government, civilian population, or any segment thereof, in furtherance of political or social objectives.”

For this analysis, this hazard encompasses the following sub-hazards: terrorist attack, biological terrorism, agroterrorism, chemical terrorism, and radiological terrorism. Active shooter incidents, while not usually politically motivated, are also included in this profile. Cyber terrorism is discussed under Section 4.3.1 Cyber Incident.

A **terrorist attack** is an attack by terrorist groups or individuals against civilians. Another term sometimes used for these types of incidents is “violent extremist attacks.” These may involve:

- Coordinated tactical assaults by multiple attackers, such as the 2008 attacks on Mumbai, India;
- Sniping attacks from a distance, as with the 2014 Pennsylvania State Police barracks attack;
- Use of explosives, such as the 2013 Boston Marathon bombing;
- Arson, as in the 1998 arson attack at Vail Ski Resort.

The term **CBRNE** is also sometimes used to refer to the malicious use of Chemical, Biological, Radiological, Nuclear, or Explosive weapons and devices with the intent to cause significant harm or disruption. These weapons are detailed separately below.

Historically **explosives** have been the most common terrorist weapon, accounting for 51% of all attacks since 1970. Hazard impacts are typically instantaneous; secondary devices may be used, lengthening the duration of the hazard until the attack site is determined to be clear. The extent of damage is determined by the type and quantity of explosive. Effects are generally static other than cascading consequences and incremental structural failures. Some areas could experience direct weapons’ effects: blast and heat; others could experience indirect weapons’ effect.

Biological terrorism is the use of biological agents against persons or property. Liquid or solid contaminants can be dispersed using sprayers/aerosol generators or by point of line sources such as munitions, covert deposits and moving sprayers. Biological agents vary in the amount of time they pose a threat. They can be a threat for hours to years depending upon the agent and the conditions in which it exists.

A biological attack could also take the form of **agroterrorism**, directed at causing societal and economic damage through the intentional introduction of a contagious animal disease or fast-spreading plant disease that affects livestock and food crops and disrupts the food supply chain. Such an attack could



require the agriculture industry to destroy livestock and food crops, disrupt the food supply both nationally and globally, and could also affect consumer confidence in the food supply resulting in tremendous economic damage for potentially an extended period.

Chemical terrorism involves the use or threat of chemical agents against persons or property. Effects of chemical contaminants are similar to biological agents.

Radiological terrorism is the use of radiological materials against persons or property. Radioactive contaminants can be dispersed using sprayers/aerosol generators, or by point of line sources such as munitions, covert deposits and moving sprayers or by the detonation of a nuclear device underground, at the surface, in the air or at high altitude.

The U.S. Department of Homeland Security (DHS) defines an **active shooter** as “an individual engaged in attempting to kill people in a confined space or populated area.” While many terrorist attacks can also be described as active shooter incidents, here the term is used to refer to non-politically motivated incidents such as recent tragic incidents at schools, places of worship, and workplaces; these attacks are also sometimes called mass shootings. Active shooters typically use firearms although for the purposes of this plan the definition of active shooter is broad and intended to include attacks such as vehicle and knife attacks. The motivations for committing such acts range from retribution for a perceived injustice; to acts of violence against racial minorities, LGBTQ persons, or others; to promoting a specific social or political goal. Typically, active shooters are not interested in taking hostages or attaining material gain, and frequently aren’t even interested in their own survival. Unlike organized terrorist attacks, most active shooter incidents are carried out by one or two individuals.

The U.S. State Department designates 63 groups as Foreign Terrorist Organizations around the world. There is no similar list of domestic terrorist groups. The Global Terrorism Database (GTD) maintained by the National Consortium for the Study of Terrorism and Responses to Terrorism lists 241 groups known or suspected of carrying out terrorist attacks on U.S. soil since 1970.

The Southern Poverty Law Center (SPLC) reports 22 active hate groups in Colorado, as shown in Table 4-53. The SPLC defines a hate group as any group with “beliefs or practices that attack or malign an entire class of people – particularly when the characteristics being maligned are immutable.” It is important to note that inclusion on the SPLC list is not meant to imply that a group advocates or engages in violence or other criminal activity. None of the hate groups identified by the SPLC have a specifically identified footprint in Adams County, although several are located in the Denver metro area and any group with a statewide footprint may also have a presence in the area.

Table 4-53 Hate Groups Active in Colorado

Group	Ideology	City
ACT for America	Anti-Muslim	Denver
American Guard	General Hate	Statewide
Asatru Folk Assembly	General Hate	Statewide
Atomwaffen Division	Neo-Nazi	Statewide
Colorado Alliance for Immigration Reform	Anti-Immigrant	Lakewood
Family Research Institute	Anti-LGBT	Colorado Springs
Generations	Anti-LGBT	Elizabeth
Identity Evropa	White Nationalist	Denver
Identity Evropa	White Nationalist	Colorado Springs
Identity Evropa	White Nationalist	Boulder



Group	Ideology	City
Israel United In Christ	Black Nationalist	Denver
Mass Resistance	Anti-LGBT	Denver
MSR Productions	Hate Music	Wheat Ridge
Nation of Islam	Black Nationalist	Denver
Northern Kingdom Prophets	Black Nationalist	Pueblo
Patriot Front	White Nationalist	Statewide
Pray in Jesus Name Project, The	Anti-LGBT	Colorado Springs
Proud Boys	General Hate	Statewide
Scriptures for America Worldwide Ministries	Christian Identity	Laporte
Soldiers of Odin	Anti-Muslim	Denver
The Right Stuff	White Nationalist	Statewide
Traditionalist Worker Party	Neo-Nazi	Statewide

Source: Southern Poverty Law Center www.splcenter.org/states/colorado

Terrorist attacks and active shooter incidents can happen anywhere and generally take place with no warning. Duration is dependent on the parameters of the incident; while the incidents themselves are usually relatively short, residual impacts on the community can be long-lasting. The threat of terrorism, both international and domestic, is ever present, and an attack can occur when least expected.

Geographic Location

Terrorist attacks can occur at any location, but are more likely to target highly populated areas, critical infrastructure, or symbolic locations.

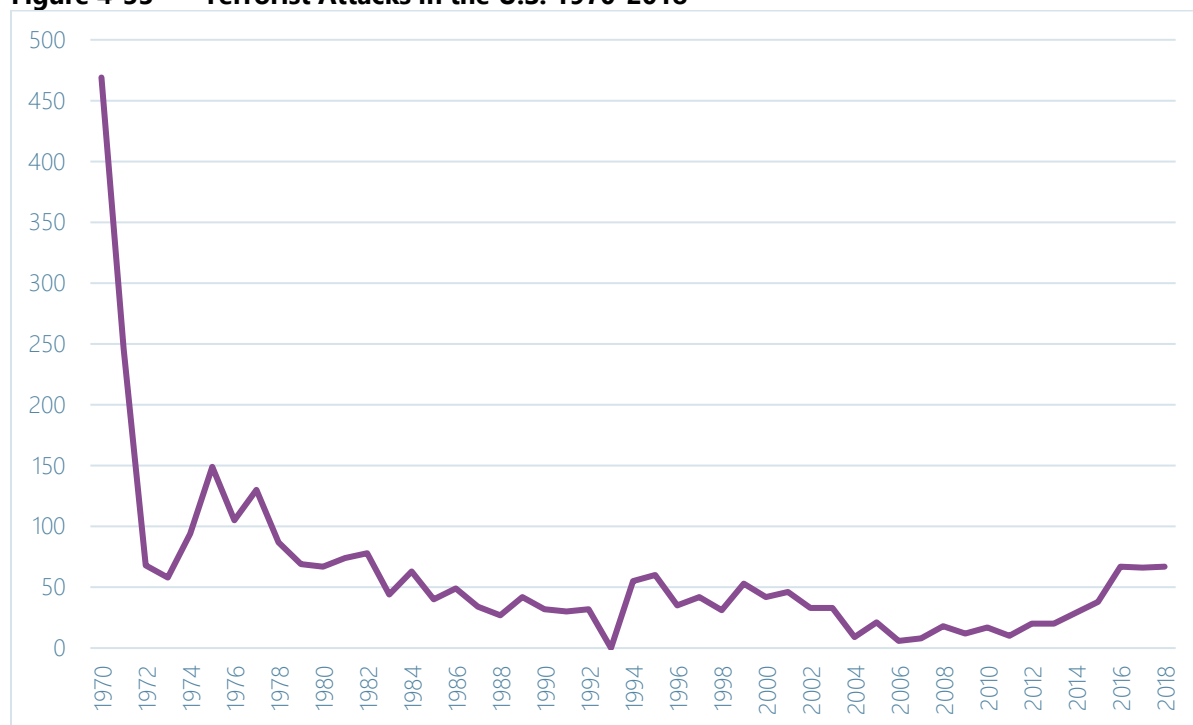
Active shooter incidents can potentially happen at any mass gathering, including workplaces, schools, places of worship, or concerts and special events. A 2014 FBI study of 160 active shooter incidents between 2000 and 2013 found that 45.6% of the incidents took place in a commercial environment, followed by 24.3% in an educational location, with the remaining 30.1% divided between outdoors, military and other government properties, residential properties, houses of worship, and health care facilities.

Previous Occurrences

Terrorism

The Global Terrorism Database (GTD) includes more than 190,000 terrorist attacks dating back to 1970. GTD data shows that despite public perception the number of terrorist attacks on US soil has decreased over recent decades, as shown in Figure 4-33. From an average of 147.5 incidents per year in the 1970s, the frequency of attacks declined to 51.8 per year in the 1980s, then to 37.0 per year in the 1990s, and to 22.8 per year in the 2000s. An increase in attacks from 2015 through 2018 brought that average back up to 39.6 incidents per year for 2011 through 2018 (the most recent year the GTD has analyzed), but this is still well below the frequency seen in the 70s and 80s.



Figure 4-33 Terrorist Attacks in the U.S. 1970-2018

Source: Study of Terrorism and Responses to Terrorism (START) Global Terrorism Database (GTD) <https://www.start.umd.edu/gtd/>

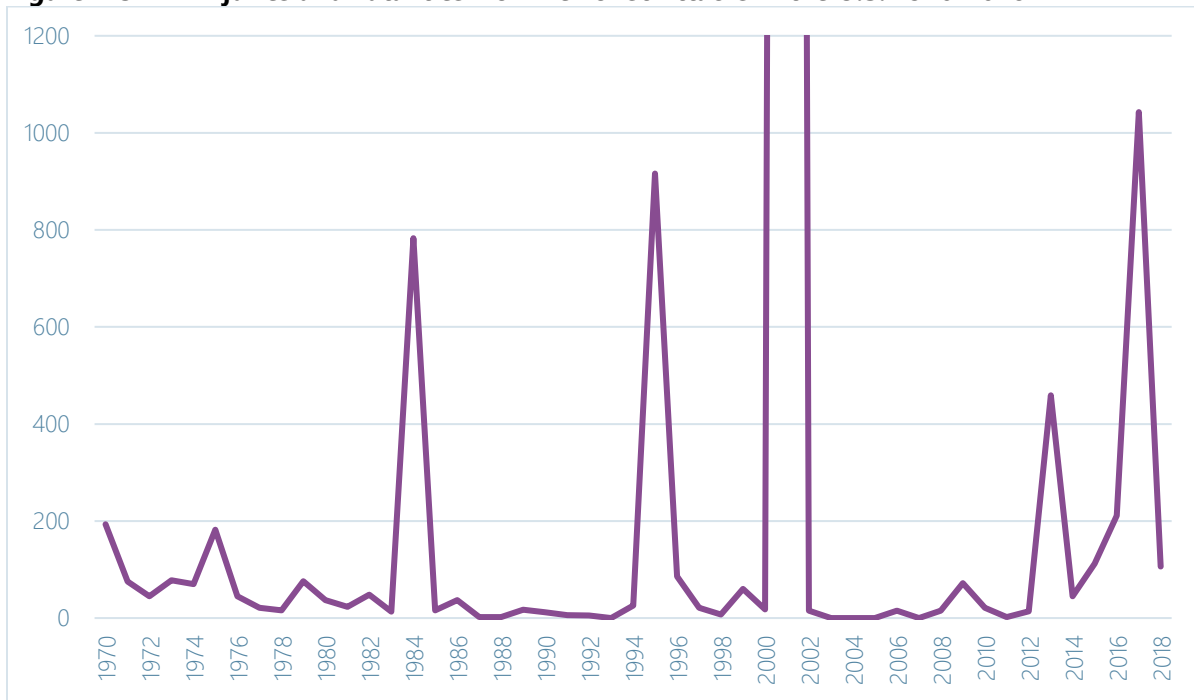
A 2017 U.S. Government Accountability Office report “Countering Violent Extremism” found that of 85 violent extremist incidents resulting in death in the U.S. since September 12, 2001, right wing groups were responsible for 73% of attacks while radical Islamist groups were responsible for 27%.

Unfortunately, the number of people injured or killed in terrorist attacks in the U.S. has not matched the decline in number of attacks, as can be seen in Figure 4-34. (Note that the 12,645 people injured or killed in 2001 extends off the top of the graph in order to make the differences between other years easier to see.) However, this data is to a large extent skewed by a handful of deadly attacks:

- The September 11, 2001 attacks on New York and Washington D.C., which killed 1,385 and injured 10,878 – more than all other terrorist attacks in the U.S. since 1970 combined.
- The October 1, 2017 shooting at the Route 91 Harvest Festival concert in Las Vegas, Nevada, which killed 59 and wounding 851.
- The April 4, 2013 Boston Marathon Bombing killed 3 and injured 264.
- The April 19, 1995 bombing of the Murrah Federal Building in Oklahoma City, killing 168 and injuring 650.
- The September – October 1984 salmonella food poisoning attack in Dalles, Oregon, which sickened 751 people.

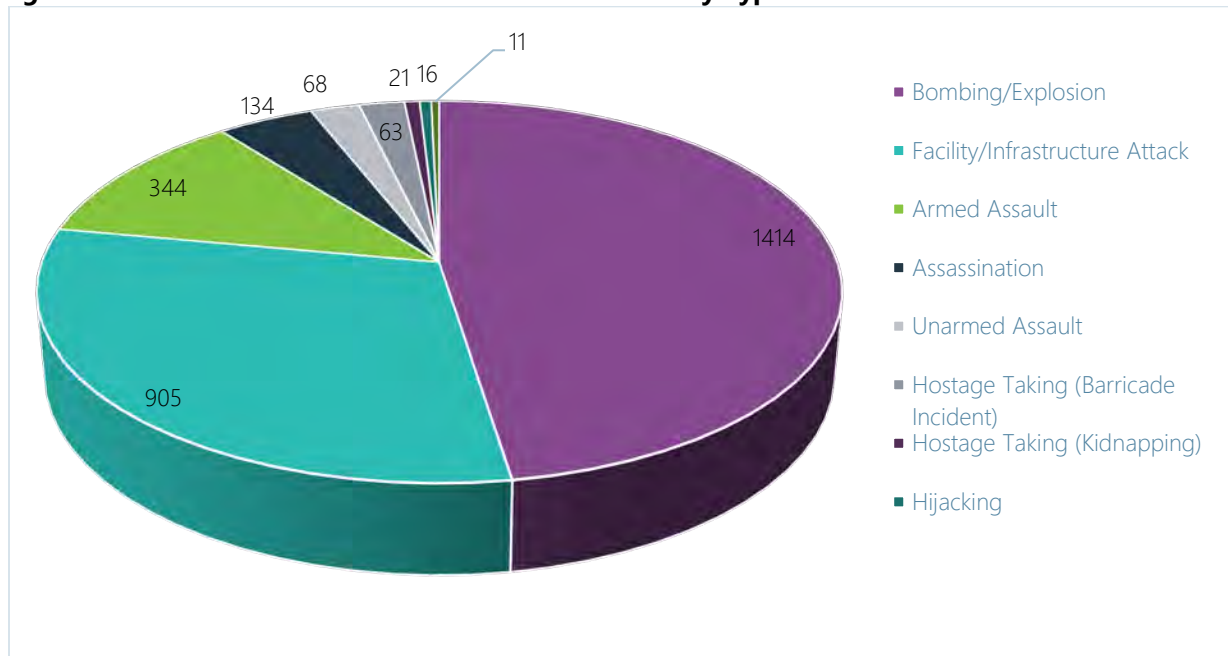
Of the 49 years since 1970 through 2018, only 10 (20%) saw more than 100 injuries or fatalities nationally, and most years saw fewer than 25 casualties.

Figure 4-34 Injuries and Fatalities from Terrorist Attacks in the U.S. 1970-2018



Source: Study of Terrorism and Responses to Terrorism (START) Global Terrorism Database (GTD) <https://www.start.umd.edu/gtd/>

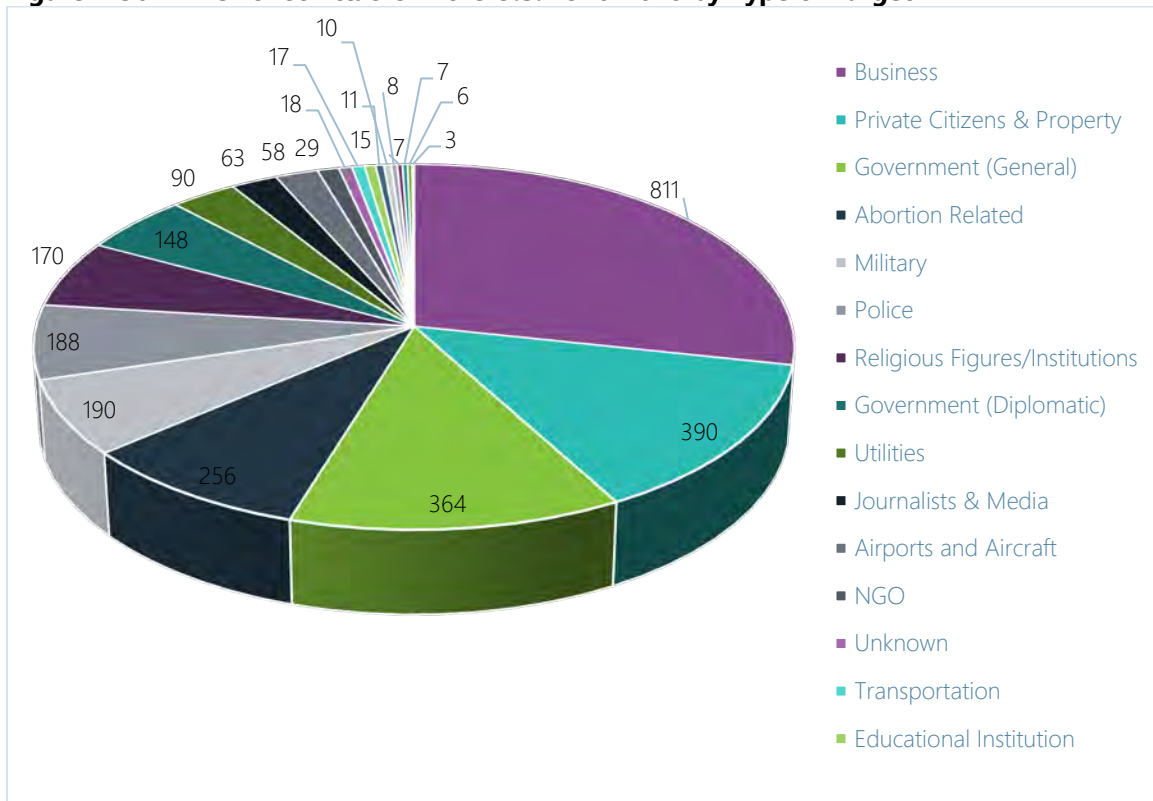
Figure 4-35 Terrorist Attacks in the U.S. 1970-2018 by Type of Attack



Source: Study of Terrorism and Responses to Terrorism (START) Global Terrorism Database (GTD) <https://www.start.umd.edu/gtd/>



Figure 4-36 Terrorist Attacks in the U.S. 1970-2018 by Type of Target

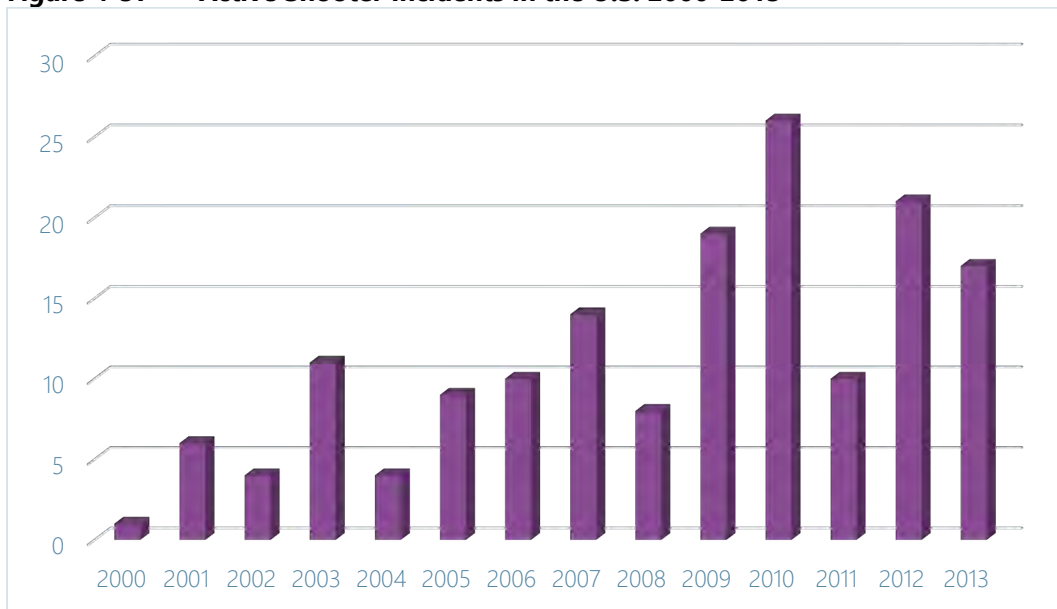


Source: Study of Terrorism and Responses to Terrorism (START) Global Terrorism Database (GTD) <https://www.start.umd.edu/gtd/>

The use of CBRNE weapons other than explosives outside of war zones is rare but not unprecedented. Nonetheless, the high potential impact of such attacks makes them a hazard of concern nationally.

Active Shooter Incidents

Figure 4-37 Active Shooter Incidents in the U.S. 2000-2013



Source: FBI, A Study of Active Shooter Incidents in the United States Between 2000 and 2013

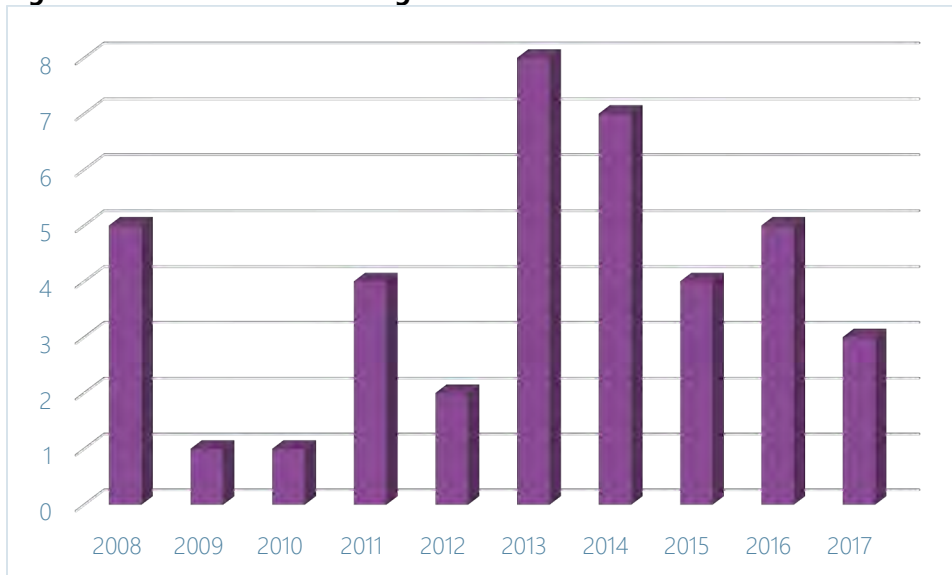


While the number of terrorist attacks in the U.S. has generally declined in recent decades, the number of active shooter incidents appears to be on the rise. Although there is much uncertainty and debate around exactly what constitutes an active shooter incident, the 2014 FBI study reported that 160 such incidents took place between 2000 and 2013. The frequency of attacks increased sharply during the 13 years of the study, from an average of 6.4 incidents per year in the first seven years of the study to 16.4 per year in the last seven years. The 160 incidents resulted in 1,043 casualties (486 killed and 557 wounded, excluding the shooters), an average of 6.5 casualties per incident.

School violence is sometimes considered as a subset of active shooter incidents (although not all school incidents involve the use of firearms). The U.S. Secret Service conducted a study of incidents of “targeted school violence” in the U.S. from 2008 to 2017, which they defined as “any incident in which (i) a current or recently former K-12 school student (ii) purposefully used a weapon (iii) to cause physical injury to, or the death of, at least one other student and/or school employee (iv) in or on the immediate property of the school (v) while targeting in advance one or more specific and/or random student(s) and/or employee(s).” The study excluded spontaneous incidents that resulted from unplanned fights or were tied to other criminal acts such as gang violence or drug trafficking.

The Secret Service study found 41 incidents that met the criteria from 2008 to 2017, an average of 4 per year. As with active shooter incidents, the number of incidents has increased. From 2008 through 2012, the nation saw an average of 2.6 incidents per year; from 2013 through 2017, that number had risen to 5.4 per year. 61% of attacks used firearms, while 39% used knives. In the 41 attacks, 98 victims were harmed, including 79 injured and 19 killed; this averages out to 1.9 persons injured and 0.5 killed per incident.

Figure 4-38 Incidents of Targeted School Violence in the US 2008-2017



Source: U.S. Secret Service Analysis of Targeted School Violence, 2019

Colorado has not been immune to active shooter and school violence incidents, including:

- June 25, 2006, Safeway Warehouse, Denver:** A 22-year-old man armed with a handgun began shooting in a Safeway warehouse in Denver after having recently been passed over for a job promotion. After shooting at his co-workers, he began setting fires in the warehouse. One person was killed and five were wounded, including one police officer. The shooter was killed by police during an exchange of gunfire.



- **December 9, 2007, Youth With a Mission Training Center/New Life Church, Arvada:** A 24 year old man armed with a rifle, two handguns, and smoke bombs entered the Youth With a Mission Training Center and began shooting. The shooter had been expelled from the training center three years prior to the incident. He then walked 70 miles overnight to the New Life Church in Colorado Springs, Colorado, and began shooting again. The shooter committed suicide after being shot by church security. A total of four people were killed and five were wounded.
- **November 7, 2009, Sandbar Sports Grill, Vail:** A 63-year-old man armed with a handgun began shooting in the Sandbar Sports Grill in Vail, Colorado. Before the attack, Moreau had an argument inside the bar and was escorted out by security. One person was killed; three were wounded. The shooter was apprehended by responding police.
- **February 23, 2010, Deer Creek Middle School, Littleton:** A 32-year-old man armed with a rifle began shooting in Deer Creek Middle School in Littleton, Colorado. No one was killed, but two people were wounded. The shooter was restrained by teachers until police arrived and took him into custody.
- **May 17, 2010, Boulder Stove and Flooring, Boulder:** A 53-year-old man armed with a handgun began shooting at the owners in the back office of Boulder Stove and Flooring in Boulder, Colorado. Two people were killed; no one was wounded. The shooter committed suicide before police arrived.
- **July 20, 2012, Cinemark Century 16 Aurora:** A 24-year-old man armed with a rifle, a shotgun, and a handgun began shooting after releasing tear gas canisters in a theater at the Cinemark Century 16 movie theaters in, Colorado. Twelve people were killed and 58 were wounded, at that time the highest casualty count from an active shooter incident in the U.S. The shooter, who was wearing body armor, was apprehended by police. Police later found the shooter's apartment booby-trapped with explosives.
- **December 13, 2013, Arapahoe High School, Centennial:** An 18-year-old male student armed with a shotgun, machete, and three Molotov cocktails, began shooting in the hallways of Arapahoe High School in Centennial, Colorado. As he moved through the school and into the library, he fired one additional round and lit a Molotov cocktail, throwing it into a bookcase and causing minor damage. One person was killed; no one was wounded. The shooter committed suicide as a school resource officer approached him.
- **May 7, 2019, STEM School Highlands Ranch, Littleton:** Two male students, 18 and 16 years old, armed with handguns and a rifle hidden in guitar cases opened fire in two separate areas of the school. One student was killed while trying to disarm one shooter, who was then restrained by other students. The other shooter injured eight students before police arrived and detained him.

Probability of Future Occurrence

The unpredictable and highly variable nature of these incidents makes it difficult to accurately analyze the probability of future incidents. Based on the GTD data, since 2001 the U.S. has averaged 28 terrorist attacks a year, with an average of 21 people killed and 105 injured. It remains to be seen if the increase in terrorist attacks since 2013 will continue or not. Nevertheless, we can assume there is effectively a 100% chance that the nation will experience a terrorist attack in any given year for the foreseeable future.

The FBI study determined that the U.S. averaged 16.4 active shooter incidents as of 2014, and it is likely that we will continue to experience such attacks on a regular basis for the next several years. The probability of an attack specifically in Adams County is difficult to estimate and depends on many different factors, not all of which are well understood. Assuming 16.4 active shooter incidents per year across 3,142 counties (or county-equivalents), there is roughly a 0.5% chance of an incident occurring in any given county in any given year, all other things being equal. Similarly, assuming 5 incidents of



targeted school violence per year, we can infer a 0.17% chance of an incident occurring in a given county in a given year.

Magnitude/Severity

As seen above, the impact of a terrorist incident varies widely based on many factors, including the incident site, weapon(s), location, time of day, and the effectiveness of prevention/protection efforts, among other circumstances. As a general rule, terrorist and active shooter incidents are targeted where they can do the most damage and have the maximum impact possible.

Active shooters have demonstrated the capability to kill or injure large numbers of people. The 160 incidents studied in the 2014 FBI report resulted in 1,043 casualties (486 killed and 557 wounded excluding the shooters), an average of 6.5 casualties per incident. The 41 school violence incidents in the U.S. Secret Service study injured 79 people and killed 19, an average of 1.9 persons injured and 0.5 killed per incident. The psychological impact of these types of incidents is often even worse than the direct impacts and can impact a community for years.

The extent of damage caused by an explosive attack depends on many factors including the size, construction, composition, application, and placement of the explosive. The high-pressured blast caused by an explosion can send debris flying and lift people off the ground. The injuries that are most common to explosions are overpressure damage, fragmentation injuries, impact injuries, and thermal injuries. Some health effects caused by explosions such as eye injuries and abdominal injuries may not be apparent initially. An explosion near a building, public transportation, or other facility there could be extensive damage done to structures and infrastructure. An explosive attack may cause disruption in services such as electricity, water, communications, and transportation.

Chemical attacks can cause injury or fatalities if inhaled or absorbed through the skin. The harm caused by these attacks ultimately depends on: 1) their degree of toxicity, 2) the concentration of the chemical, 3) the route of exposure, and 4) the duration of the exposure. Symptoms of exposure to most toxic chemicals would appear in minutes to hours. Different chemicals have varying effects on the body. Depending on the chemical agent, symptoms can appear either minutes or hours after exposure.

The severity of a biological attack would vary widely depending on the disease or agent used and how it is spread. Some biological agents can be easily disseminated or transmitted from person to person and could result in high mortality rates and potential for major public health impacts. Other agents are more difficult to disseminate and would likely result in only moderate morbidity rates.

Radioactive materials are commonly used throughout a host of different professions, including manufacturing, construction, health, and research, and are typically categorized based on the primary type of radiation they emit: alpha, beta, gamma, or neutron. Individuals can be exposed to radiation (energy), and/or become contaminated with radioactive materials, resulting in ongoing exposure. Internal contamination through inhaling or ingesting radioactive material is particularly dangerous.

A nuclear attack could have the most devastating and far reaching consequences out of all the possible disasters and hazards. Direct effects would include intense heat, blast energy, and high-intensity nuclear radiation. Following an attack, residual radioactive material would be propelled into the atmosphere and return as radioactive fallout. Secondary effects could range from the destruction of critical infrastructure and systems, to a shortage of adequate shelter, food, water, health, and other necessities.



Vulnerability

People

Most terrorist attacks are primarily intended to kill and injure as many people as possible. Physical harm from a firearms attack or explosive device is not completely dependent on location, but risk is greater in areas where higher numbers of people gather. If a biological or chemical agent were released indoors, it could result in exposure to a high concentration of pathogens, whereas an outdoors release could affect many more people but probably at a lower dose. Symptoms of illness from a biological or chemical attack could go undetected for days or even weeks. Local healthcare workers may observe a pattern of unusual illness or early warning monitoring systems may detect airborne pathogens. People could also be affected by an attack on food and water supply. In addition to impacts on physical health, any terrorist attack would likely cause significant stress and anxiety.

Similarly, most active shooters primarily target people, attempting to kill or injure large numbers of individuals. The number of injuries and fatalities are highly variable, dependent on many factors surrounding the attack including the location, the number of type of weapons used, the shooter's skill with weapons, the amount of people at the location, and law enforcement response time. Statistics indicate an average of 6.5 casualties per active shooter incident. Psychological effects of the incident, on not only victims and responders but also the general public, may last for years.

General Property

The potential for damage to property is highly dependent on the type of attack. Terrorist attacks involving explosives or other CBRNE weapons, may damage buildings and infrastructure. For most attacks, impacts are highly localized to the target of the attack, although CBRNE attacks could potentially have much broader impacts.

Active shooter incidents rarely result in significant property damage, although crime scene measures may deny the use of targeted facilities for days after the incident.

Critical Facilities and Infrastructure

Terrorists often target critical infrastructure, and attacks using explosives or other CBRNE weapons can potentially have devastating impacts.

While active shooter incidents rarely cause major property damage directly, indirect effects can be significant, such as the loss of critical facilities for days or weeks due to crime scene concerns.

Economy

Terrorist attacks can have major economic impacts. As an extreme example, after the September 11, 2001 terrorist attacks in New York and Washington the U.S. stock market lost \$1.4 trillion, the Gross Domestic Product of New York City lost an estimated \$27 billion, and commercial air travel decreased by 20%. Smaller attacks can still have severe economic impacts, primarily by deterring people away from certain areas or activities. Cleanup after a CBRNE attack could be lengthy and highly expensive. Terrorist attacks could also deter businesses from relocating to impacted areas, although there is not significant research to support this conclusion.

As noted above, over 45% of active shooter incidents in the FBI study took place at a commercial establishment. Nonetheless, most active shooter incidents have minimal impacts on the broader economy beyond the individual business affected. This can vary based on the location of the incident; an incident at a mall for example could cause temporary business interruption and closures due to crime scene investigation.



Historic, Cultural, and Natural Resources

Most terrorist or active shooter attacks do not cause widespread damage to the environment. However, terrorists have been known to target sites with historic or cultural significance.

Future Development

The link between increased development and terrorist attacks is uncertain at best. Many terrorist attacks have targeted larger metropolitan areas, so a larger population could potentially make public events more attractive targets. Population growth and development could expose more people and property to the impacts of an explosive or CBRNE attack.

There is no clear link between increased development and active shooter incidents.

Risk Summary

- While the number of terrorist attacks on U.S. soil has been declining since the 1970s, active shooter incidents and school violence have risen in recent years.
- Effects on people: The primary aim of most active shooters is to injure and kill as many people as possible.
- Effects on property: Active shooter incidents rarely cause significant property damage.
- Effects on economy: Most active shooter incidents have minimal impacts on the economy.
- Effects on critical facilities and infrastructure: Crime scene concerns can lead to the loss of use of critical facilities for days or weeks.
- Related Hazards: Cyber Incident, Hazardous Materials

Table 4-54 Terrorism Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Limited	Occasional	Limited	Low
Bennett	Extensive	Occasional	Critical	High
Brighton	Limited	Occasional	Limited	Low
Commerce City	Limited	Likely	Limited	Medium
Denver Water	Limited	Likely	Limited	Medium

4.3.10 Thunderstorms

Hazard Description

A thunderstorm is classified as severe when it contains one or more of the following phenomena: hail that is three-quarters of an inch or greater, winds in excess of 50 knots (57.5 mph), or a tornado. Approximately 10% of the thunderstorms that occur each year in the United States are classified as severe.

Thunderstorm winds are defined by the National Weather Service (NWS) as winds arising from convection (occurring within 30 minutes of lightning being observed or detected), with speeds of at least 50 knots (58 mph), or winds of any speed (non-severe thunderstorm winds below 50 knots) producing a fatality, injury, or damage. Events with maximum sustained winds or wind gusts less than 50 knots (58 mph) are entered as a Storm Data event only if they result in fatalities, injuries, or serious property damage.

Hail is formed when water droplets freeze and thaw as they are thrown high into the upper atmosphere by the violent internal forces of thunderstorms. Hail is sometimes associated with severe storms within the Adams County planning area. Hailstones are usually less than two inches in diameter and can fall at

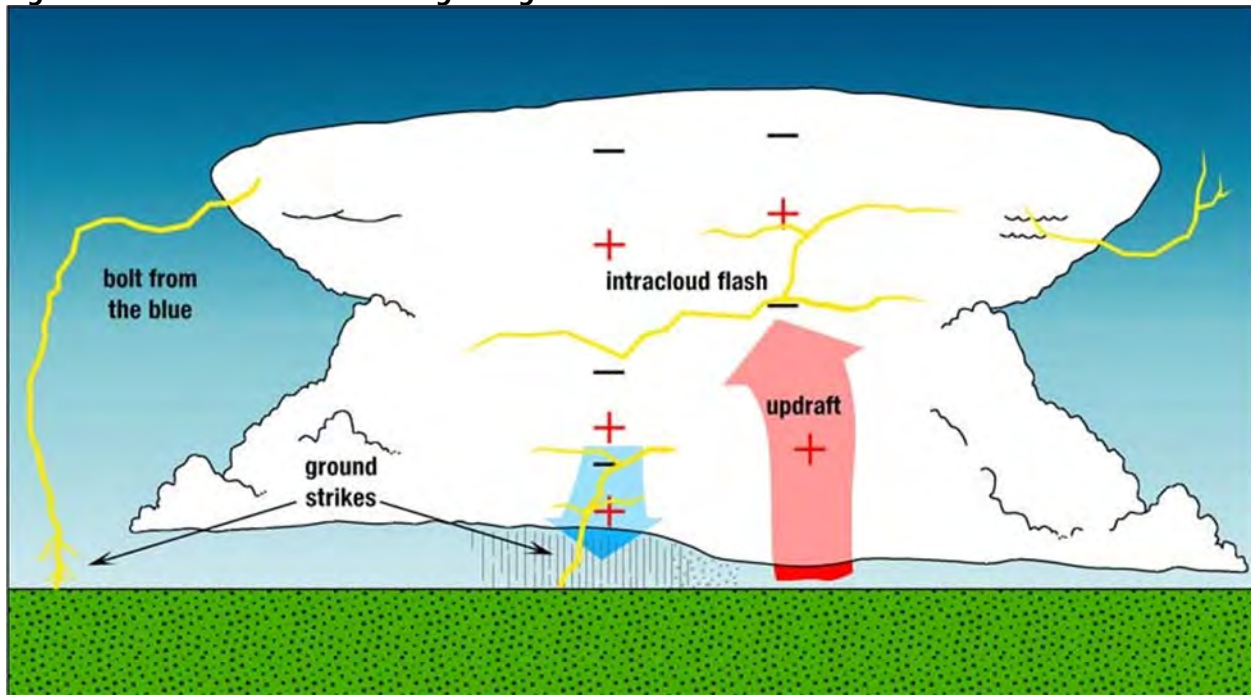


speeds of 120 miles per hour (mph). Severe hailstorms can be quite destructive, causing damage to roofs, buildings, automobiles, vegetation, livestock and crops.

Lightning is defined as any and all of the various forms of visible electrical discharge caused by thunderstorms. Thunderstorms and lightning are usually (but not always) accompanied by rain. Intra-cloud lightning is the most common type of discharge. This occurs between oppositely charged centers within the same cloud. Usually it takes place inside the cloud and looks from the outside of the cloud like a diffuse brightening that flickers. However, the flash may exit the boundary of the cloud, and a bright channel, similar to a cloud-to-ground flash, can be visible for many miles.

Cloud-to-ground lightning is the most damaging and dangerous type of lightning, though it is also less common. Most flashes originate near the lower-negative charge center and deliver negative charge to earth. However, a large minority of flashes carry positive charge to earth. These positive flashes often occur during the dissipating stage of a thunderstorm's life. Positive flashes are more common as a percentage of total ground strikes during the winter months. This type of lightning is particularly dangerous for several reasons. It frequently strikes away from the rain core, either ahead or behind the thunderstorm. It can strike as far as 5 or 10 miles from the storm in areas that most people do not consider to be a threat (see Figure 4-39). Positive lightning also has a longer duration, so fires are more easily ignited. And, when positive lightning strikes, it usually carries a high peak electrical current, potentially resulting in greater damage.

Figure 4-39 Cloud to Ground Lightning



Source: National Weather Service Pueblo Office

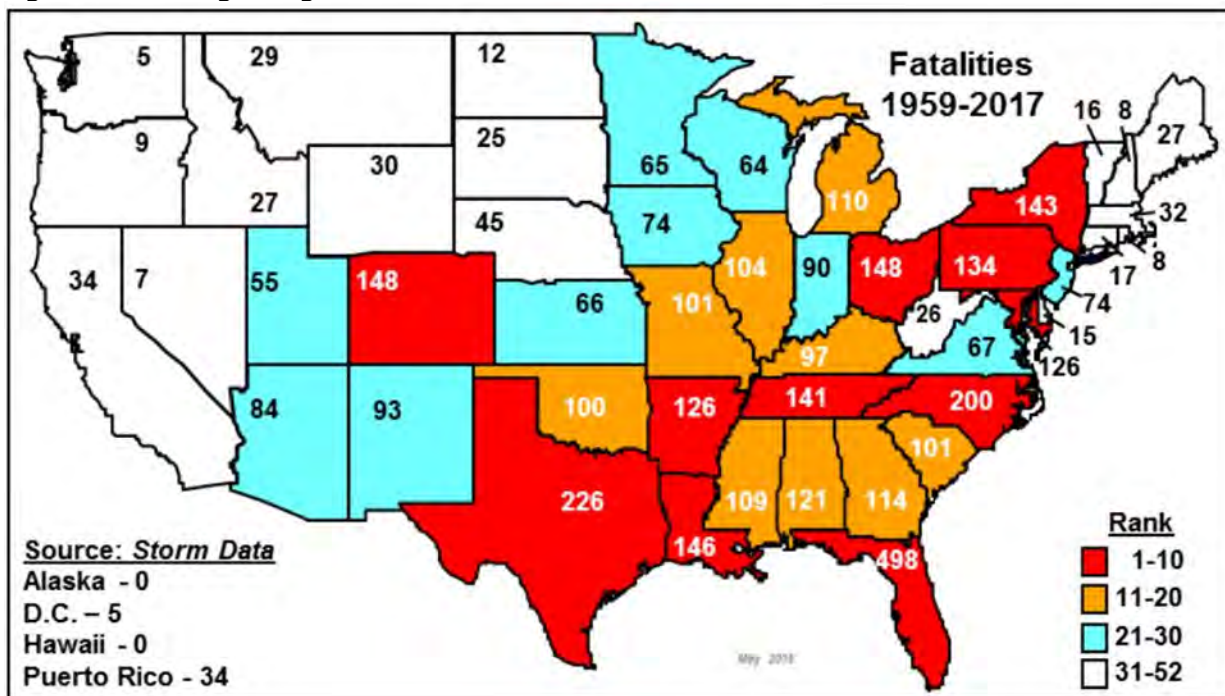
According to the National Weather Service, Colorado ranks 19th in the nation with respect to the number of cloud-to-ground lightning flashes, with an average number of 490,164 flashes per year (based on data collected between 2008 and 2017). Colorado ranks 31st in terms of cloud-to-ground flash density in the United States, with an average 4.7 flashes per kilometer squared (National Weather Service).

Figure 4-40 shows state-by-state lightning deaths between 1959 and 2017. Colorado ranks fourth for the number of deaths at 148. Florida (498), Texas (226), and North Carolina (200) were ranked higher. Based



on National Weather Service data since 1980 an average of 3 people are killed and 12 are injured in Colorado per year.

Figure 4-40 Lightning Fatalities in the United States, 1959-2017



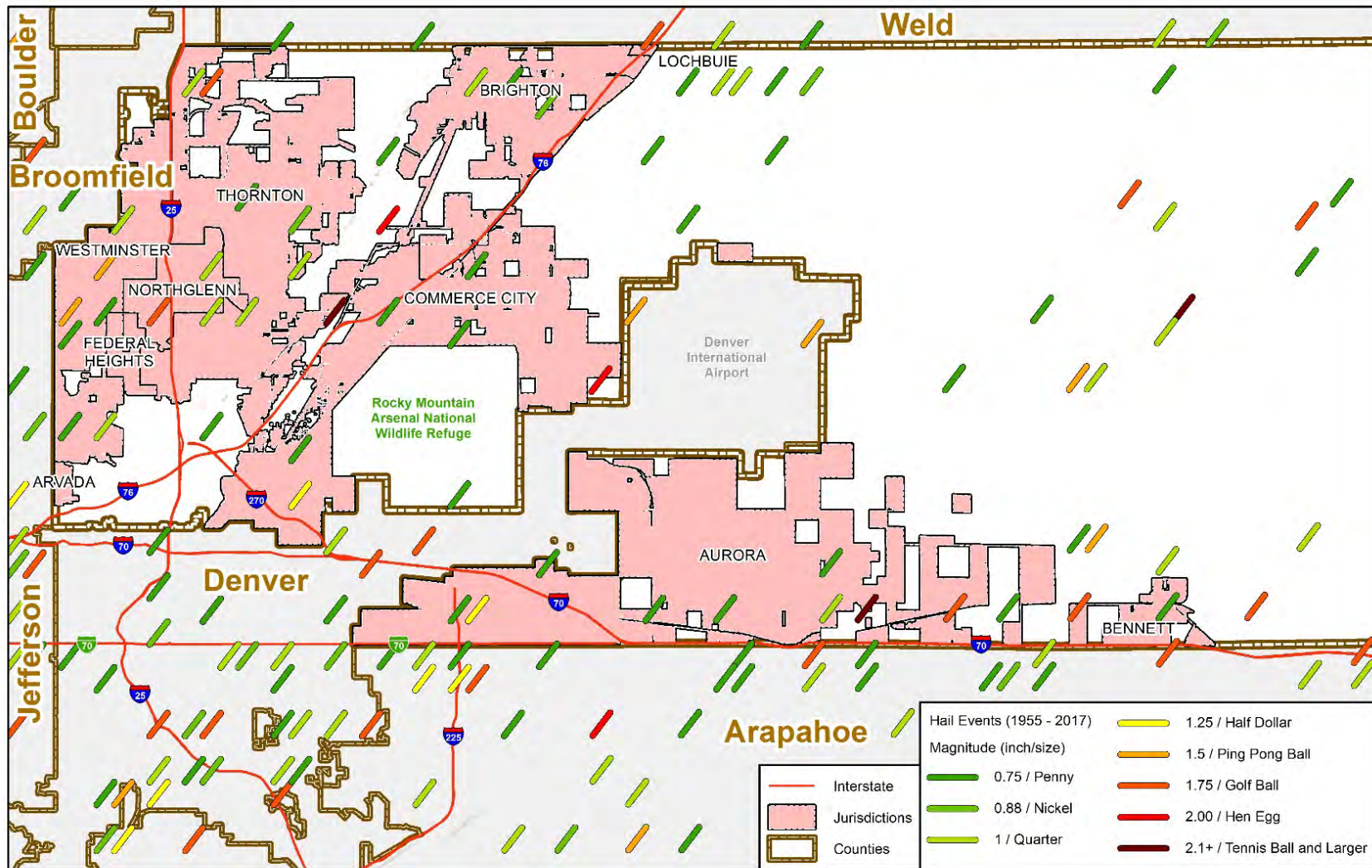
Source: National Weather Service

Geographic Location

Thunderstorms are generally expansive in size. The entire county is susceptible to any of the effects of a severe thunderstorm, including hail, lightning, heavy rain and thunderstorm winds. Figure 4-41 and Figure 4-42 shows the reported locations of hail storms from 1955 to 2017, including the event magnitudes. Note that these are NOAA-reported events and may not be comprehensive, particularly in the less-populated parts of the County.



Figure 4-41 NOAA Hail Events in West Adams County, 1955-2017

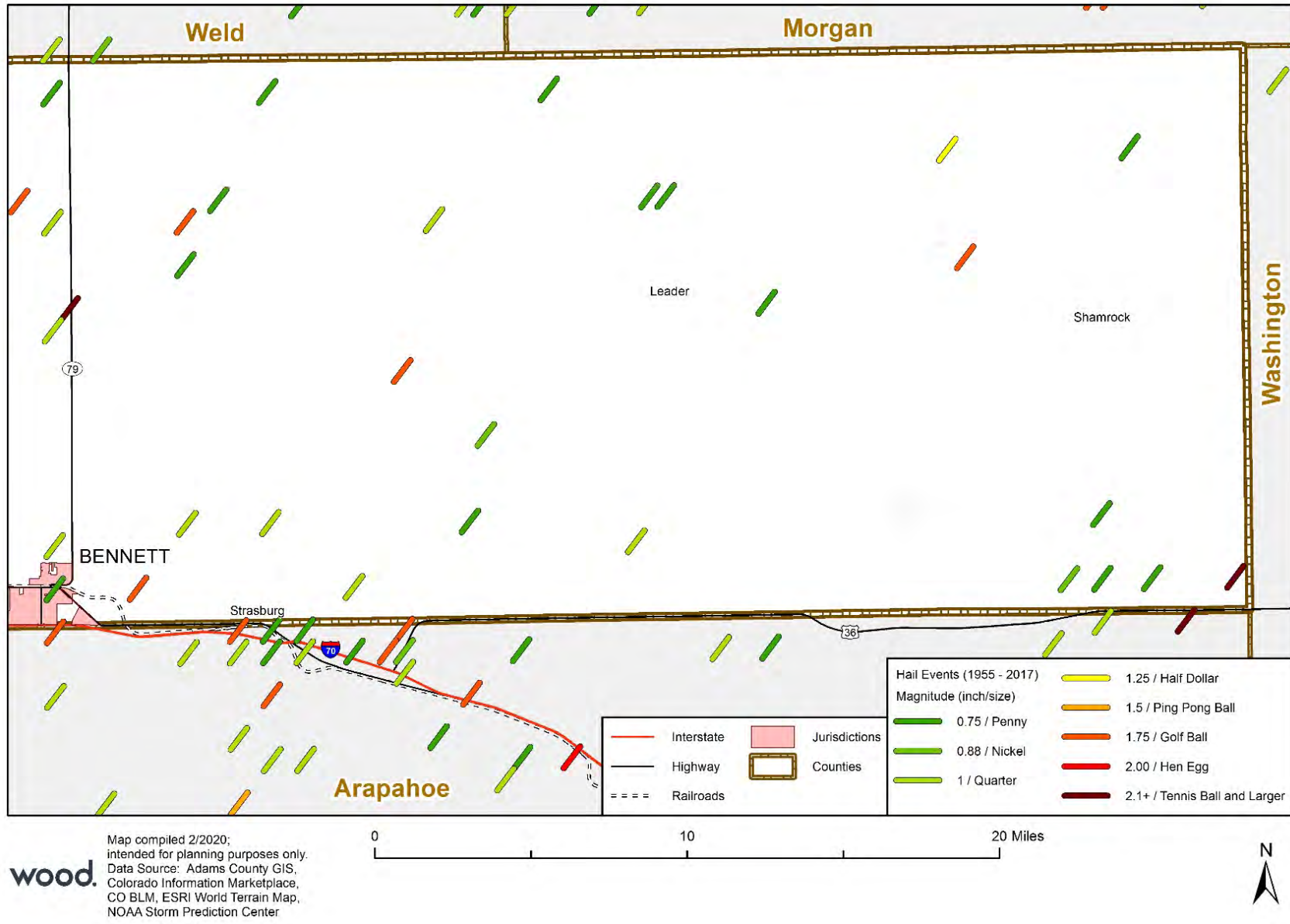


Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI World Terrain Map,
NOAA Storm Prediction Center

0 10 20 Miles



Figure 4-42 NOAA Hail Events in East Adams County, 1955-2017



Previous Occurrences

Thunderstorms are regular occurrences in Adams County from spring through late summer or early fall. Typically, more severe storms occur in midsummer. NOAA's National Center for Environmental Information (NCEI) Storm Events Database records 494 severe thunderstorm events for Adams County between 1955 and 2018. (The search included hail, heavy rain, lightning and thunderstorm wind.) Of these events 27 resulted in property or crop damages. The following table summarizes the recorded events.

Table 4-55 Severe Thunderstorm Events, 1955-2018*

Event Type	# of Events	Property Damage	Crop Damage	Deaths	Injuries
Lightning	20	\$391,000	\$0	2	3
Hail	380	\$438,800,500	\$50,000	0	7
Thunderstorm Wind	94	\$76,500	\$0	0	9
Total	494	\$439,268,000	\$50,000	2	19

Source: NCEI *The Storm Events Database only has recorded lightning events from 1996-2015

The Storm Events Database collects information on each event from a variety of sources including but not limited to, county, state and federal emergency management officials, newspaper clipping services, the insurance industry and the general project. Crop damages recorded in the Database should be considered broad estimates according to the National Weather Service. As discussed in the Section 4.3.3 Drought, the Cause of Loss Database maintained by the USDA Risk Management Agency helps to quantify the economic impact different natural hazards have on the agriculture in the County. Note that the NCEI database only includes uninsured crop losses; insured losses are much greater as shown in Table 4-56. Crop losses as a result of thunderstorm hazards, including excess moisture/rain/precipitation and hail, occurred in Adams County every year between 2007 and 2018. During this 11-year time period, hail caused a majority of the damages to crops affected, 165,334 acres and the amount of losses claimed, \$13,037,201. In total, over 197,000 acres were affected, and over \$15 million losses claimed in that 11-year period due to thunderstorm related hazards.

Table 4-56 Crop Insurance Claims due to Thunderstorm Related Hazards, 2007-2018

Year	Cause of Loss	Determined Acres	Indemnity Amount
2007	Hail	18,419.14	\$1,152,198
	Excess Moisture/ Precip./Rain	97.77	\$11,839
2008	Hail	15,216.68	\$1,403,659
2009	Hail	13,411.54	\$1,078,454
	Excess Moisture/ Precip./Rain	882.41	\$54,063
2010	Hail	14,919.75	\$1,129,280
	Excess Moisture/ Precip./Rain	2,975.14	\$181,479
2011	Hail	2,009.25	\$211,158
	Excess Moisture/ Precip./Rain	361.90	\$19,747
2012	Hail	1,045.21	\$71,169
2013	Hail	14,944.71	\$1,462,717
	Excess Moisture/ Precip./Rain	1,973.22	\$206,144
2014	Hail	17,160.49	\$2,284,272



Year	Cause of Loss	Determined Acres	Indemnity Amount
	Excess Moisture/ Precip./Rain	934.34	\$32,586
2015	Hail	9,593.61	\$641,160
	Excess Moisture/ Precip./Rain	16,193.92	\$1,223,294
2016	Hail	28,364.97	\$1,833,154
	Excess Moisture/ Precip./Rain	3,572.68	\$171,865
2017	Hail	1,927.89	\$99,394
	Excess Moisture/ Precip./Rain	4,954.17	\$321,170
2018	Hail	28,320.41	\$1,670,586
Total		197,279	\$15,259,389

Source: USDA RMA

The following is a summary of the events of record collected from the NCEI Storm Events Database for severe thunderstorm events specific to Adams County.

October 2, 1983 (Thunderstorm Wind Event) – 87 mph winds reported in Adams County.

July 13, 2011 (Hail Event) - Severe thunderstorms produced extensive damage as they moved across the Urban Corridor. At Denver International Airport alone, large hail up to golf ball size (2.5-inch diameter), very heavy rain, and wind gusts to 59 mph caused substantial damage to 40 planes and stranded approximately 1,500 passengers overnight. Damage to aircraft alone was nearly \$5 million. In addition, 83 cars in airport parking lots were damaged, along with some police cars and maintenance vehicles. In Watkins, two people suffered minor injuries and 35 to 40 homes were damaged. As many as 200 residents in a mobile home park were left homeless by the storm, causing the Red Cross to open a shelter at Bennett High School. Hailstones the size of softballs cratered the north sides of the mobile homes. Some farmers in the area said they lost as much as 85% of their total wheat crop. Power lines were damaged affecting about 1,200 customers in Watkins. The strong winds also flipped over a tractor-trailer rig on Interstate 70 near Watkins Road. Insurance claims for the Watkins, Bennett and Brighton areas was estimated to be \$17 million. The total damage estimate across the entire Urban Corridor was \$164.8 million and included 17,200 automobile claims and 12,600 homeowner claims.

No heavy rain events have been recorded in the Storm Events Database but the HMPC reported the following events:

May 2, 2014 – Rain in excess of 2" in an hour in the Town of Bennett. The heavy rain led to erosion and sediment issues leading to temporary road closures and transportation impacts for 1.5 miles along Kiowa-Bennett Road. Other property damages included impacts to fences and ditches. The direct cleanup costs from the event were reported to be \$15,000.

July 13, 2019 – Rainfall in excess of 2" in an hour occurred in the Town of Bennett. The event led to temporary road closures on 1.5 miles of Kiowa-Bennett Road. The direct cleanup costs were approximately \$5,000. The HMP reported that only cleanup occurred, and no improvements have been made to prevent future occurrences at this time.

The National Weather Service has been tracking lightning casualties by county in Colorado since 1980. The NWS statistics only include lightning casualties through 2018. As shown in Table 4-57, Adams County has not experienced a documented casualty due to lightning since 2010. Most of the events took place in the afternoon and in the summer months between June and August. According to the State of Colorado



2018 HMP, in any given day in July or August over 4,000 lightning flashes are expected to occur in Colorado.

Table 4-57 Lightning Casualties and Injuries in Adams County, 1984-2010

Year	Month	Day	Time	Fatalities	Injuries
1984	August	4	16:34	0	1
1986	June	16	19:30	0	5
1987	May	12	16:30	0	1
1988	April	21	16:10	1	1
1992	June	5	10:30	0	1
	August	1	19:05	0	1
1995	August	21	17:15	0	1
1997	August	11	15:00	0	1
2001	May	18	21:00	1	0
2006	June	11	14:45	1	0
		21	16:15	1	0
	August	31	13:47	0	1
2010	May	26	12:30	0	1
Total				4	14

Source: National Weather Service

Probability of Future Occurrence

Thunderstorms that produce lighting, heavy rain and hail are highly likely to occur. These events are well-documented seasonal occurrences that will continue to occur annually in Adams County.

Magnitude/Severity

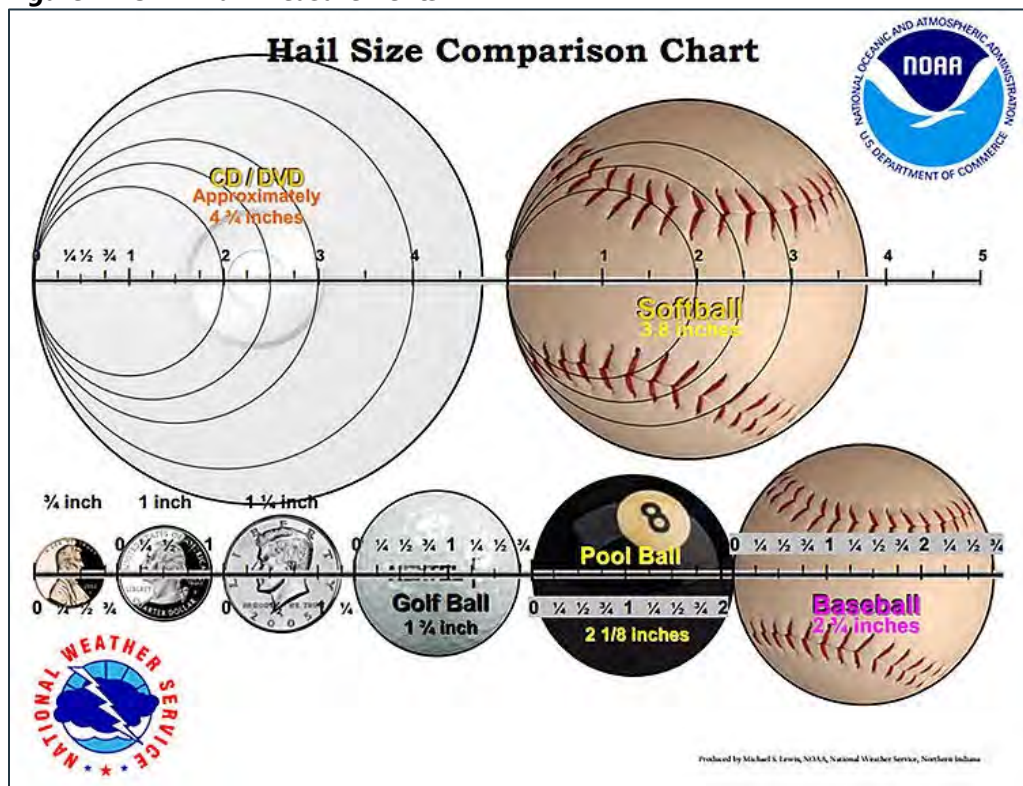
Common problems associated with severe storms include the loss of utilities or immobility. Loss of life is uncommon but can occur during severe storms. Immobility can occur when roads become impassable due to heavy rains causing flooding, erosion issues, or downed trees. Loss of power lines can occur due to downed trees from high winds or lighting.

The severity of severe thunderstorms that involve heavy rain, high wind hail can be measured according to hail by diameter sizes and wind speed. The NWS classifies hail by diameter size, and corresponding everyday objects to help relay scope and severity to the population. Figure 4-43 below shows the hailstone measurements utilized by the NWS.

There is no clear distinction between storms that do and do not produce hailstones. Nearly all severe thunderstorms probably produce hail aloft, though it may melt before reaching the ground. Multi-cell thunderstorms produce many hailstones, but not usually the largest hailstones. In the life cycle of the multi-cell thunderstorm, the mature stage is relatively short so there is not much time for growth of the hailstone. Supercell thunderstorms have sustained updrafts that support large hail formation by repeatedly lifting the hailstones into the very cold air at the top of the thunderstorm cloud. In general, golf ball sized hail or larger is associated with supercells, but non-supercell storms are also capable of producing golf ball size hail.



Figure 4-43 Hail Measurements



Source: National Weather Service

Lightning is measured by the Lightning Activity Level (LAL) scale, created by the NWS to define lightning activity into a specific categorical scale. The LAL is a common parameter that is part of fire weather forecasts nationwide. Adams County is at risk to experience lightning in any of these categories. The LAL is reproduced in Table 4-58.

Table 4-58 Lightning Activity Level Scale

Lightning Activity Level	
LAL 1	No thunderstorms
LAL 2	Isolated thunderstorms. Light rain will occasionally reach the ground. Lightning is very infrequent, 1 to 5 cloud to ground strikes in a five-minute period.
LAL 3	Widely scattered thunderstorms. Light to moderate rain will reach the ground. Lightning is infrequent, 6 to 10 cloud to ground strikes in a five-minute period.
LAL 4	Scattered thunderstorms. Moderate rain is commonly produced. Lightning is frequent, 11 to 15 cloud to ground strikes in a five-minute period.
LAL 5	Numerous thunderstorms. Rainfall is moderate to heavy. Lightning is frequent and intense, greater than 15 cloud to ground strikes in a five-minute period.
LAL 6	Dry lightning (same as LAL 3 but without rain). This type of lightning has the potential for extreme fire activity and is normally highlighted in fire weather forecasts with a Red Flag warning.

Source: National Weather Service



Isolated deaths and/or multiple injuries and illnesses; major or long-term property damage that threatens structural stability; and/or interruption of essential facilities and services for 24-72 hours

Lightning can cause deaths, injuries, and property damage, including damage to buildings, communications systems, power lines, and electrical systems. It also causes wildland fires.

Lightning can occur anywhere in Adams County, and it is not possible to identify specific hazard are. Data was not available to identify specific structures at risk. Data on average annual losses was limited but based on NCEI records \$391,000 in lightning-related damages occurred between 1996 and 2018. One of the most serious risks associated with lightning is its potential to cause wildland fires. This in particular could result in losses for the County particularly in the eastern portion. For specific details on loss and vulnerability associated with wildland fires, please see the wildland fire vulnerability discussion.

Climate Change Considerations

As average temperatures increase over time, this generally will result in higher extreme temperatures and more warming in the atmosphere can trigger climate changes, which could result in more frequent extreme weather events. Climate change models are estimating an increase in temperature by the end of the century. Lightning specifically tends to occur with warmer temperatures as heat energy fuels storm clouds. A study published in the Journal of Science in November of 2014 showed the possibility of a 12% increase of lightning events for every degree of warming. On average the United States experiences 20 million lightning strikes with the possibility of 30 million lightning strikes over the continental U.S. by 2100 (Scientific American 2014).

Vulnerability

People

Exposure is the greatest danger to people from severe thunderstorms. People can be hit by lightning, pelted by hail, and caught in rising waters due to heavy rain.

Aspects of the population who rely on constant, uninterrupted electrical supplies may have a greater, indirect vulnerability to lightning. Elderly or disabled people, especially those with home health care services, often rely heavily on an uninterrupted source of electricity. Resident populations in nursing homes, residential facilities, or other special needs housing may also be vulnerable if electrical outages are prolonged. If they do not have a back-up power source, rural residents and agricultural operations reliant on electricity for heating, cooling, and water supplies are also especially vulnerable to power outages. According to the data obtained from emPower.com, a website maintained by the U.S. Department of Health and Human Services, 13% of the Medicare beneficiaries in the County rely, or 7,448 of the 56,909 of beneficiaries on medical equipment that is depended on electricity in order to live independently.

The impacts of thunderstorms on vulnerable populations can be more severe. Low income families are more likely to live in poorly constructed homes that are more likely to be damaged, and are more likely to be uninsured or underinsured, making it more difficult for them to recover from hail or lightning events. Individuals with disabilities may need more assistance after a major storm, especially if transportation or utility services are disrupted. Severe weather warnings must use methods that reach vision or hearing impaired people and those with limited English proficiency.

General Property

Severe thunderstorm events in Adams County are seasonal events that are most likely to occur in the summer months. These thunderstorm events can include significant precipitation as well as high winds, hail and lightning. These storms have resulted in injury and damages to property in several Adams County communities in the past. Lightning in particular can cause deaths, injuries, and property damage,



including damage to buildings, communications systems, power lines, and electrical systems. Lightning strikes cause intense but localized damage. Structural fires, localized damage to buildings, damage to electrical powerlines and communications outages are typical consequences of a lightning strike. High winds in the planning area often result in downing of trees and damage to properties. Given the nature of these types of storms, the entire County is potentially at risk.

Critical Facilities and Infrastructure

Because of the unpredictability of severe thunderstorm events strength and path, most critical infrastructure that is above ground is equally exposed to the storm's impacts. Due to the random and widespread nature of these hazards, a more specific risk assessment was not able to be conducted.

Economy

Economic impact of a severe thunderstorm is typically short term, although it can be significant. Lightning events can cause power outages and fires. Generally, long-term economic impacts center more around hazards that cascade from a severe thunderstorm, such as flooding, or wildfires ignited by lightning. In general, all severe thunderstorms pose a risk to the agricultural economy in the County. As noted in the Previous Occurrences subsection above, between 2007 and 2018, hail and heavy rain in Adams County led to over \$15 million in the crop insurance claims and have affected over 197,000 acres (refer to Table 4-56).

Historic, Cultural, and Natural Resources

Severe thunderstorms are a natural environmental process. Environmental impacts include the sparking of potentially destructive wildfires by lightning and localized flattening of plants by thunderstorm wind.

Future Development

New critical facilities such as communication towers should be built to withstand heavy rain, hail, wind, and lightning damage. Future development projects should consider severe thunderstorm hazards at the planning, engineering and architectural design stage with the goal of reducing vulnerability. Development trends in the County are not expected to increase overall vulnerability to the hazard, but all development will be affected by severe thunderstorm events and any population growth will increase potential exposure to hazards such as severe thunderstorms.

Risk Summary

- Severe thunderstorms can include hail, lightning, thunderstorm and heavy rain.
- 495 severe thunderstorm events have been reported in the County since 1955.
- Hail has been the most frequent (380 events) and most damaging hazard; resulting in \$438,800,500 in property damages since 195.
- Between 2007-2018 hail and heavy rain events have caused damages to 197,279 acres of crops and \$15,259,389 in crop loss.
- Heavy rain events have led to temporary closures of Kiowa-Bennett Road in the Town of Bennett
- Vulnerable populations are at risk of losing electricity due to a severe thunderstorm event. 13% of Medicare beneficiaries in the County rely on equipment that is electricity dependent.
- Related Hazards: Flood, Tornado/Damaging Wind



Table 4-59 Thunderstorms Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Extensive	Highly Likely	Limited	High
Bennett	Extensive	Highly Likely	Limited	High
Brighton	Extensive	Highly Likely	Limited	High
Commerce City	Significant	Highly Likely	Limited	Medium
Denver Water	Limited	Highly Likely	Limited	Low

4.3.11 Tornado/Damaging Wind

Hazard Description

Tornadoes are another severe weather hazard that can affect Adams County. Tornadoes are rotating columns of air marked by a funnel-shaped downward extension of a cumulonimbus cloud whirling at destructive speeds of up to 300 miles per hour (mph), usually accompanying a thunderstorm. Tornadoes are the most powerful storms that exist. They can have the same pressure differential that fuels 300-mile-wide hurricanes across a path only 300-yards wide or less. Tremendous destruction can occur in paths over a mile wide and 50 miles long with winds reaching 300 mph. Figure 4-49 below illustrates the potential impact and damage from a tornado according to the Enhanced Fujita Scale ratings (refer to the Magnitude/Severity section below).

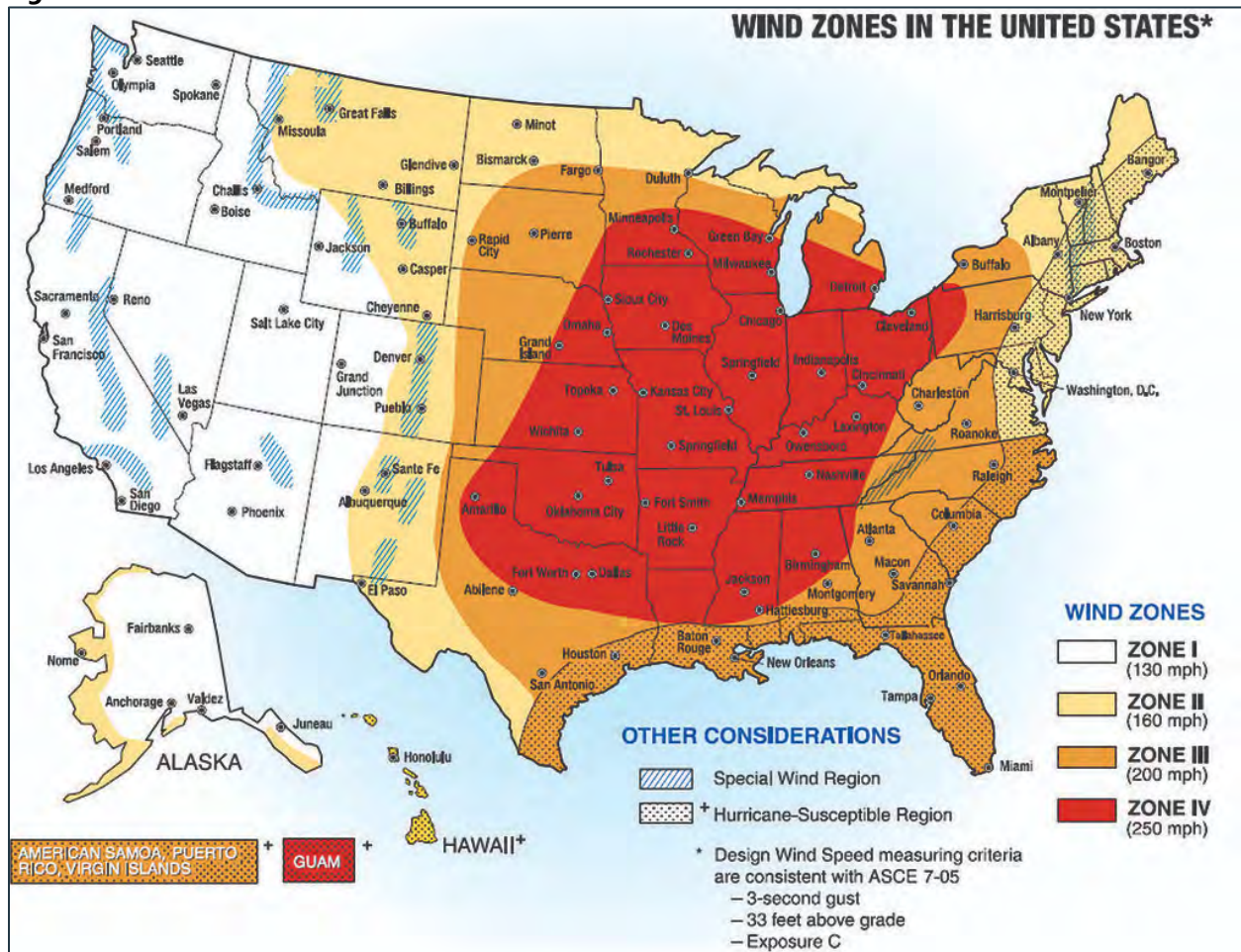
In the Colorado Front Range, tornadoes have been reported in nine months out of the year, with the peak season for tornados extending from mid-May through mid-August. June is by far the month with the most recorded tornadoes. Tornadoes have occurred every time of the day, with over half of them developing between 3 p.m. and 6 p.m., and 88% occurring between 1 p.m. and 9 p.m. MDT. They occur statewide, but by far the greatest number develop east of I-25. Since 1950, Weld and Adams counties are the two counties with the most tornadoes in the state.

According to the National Severe Storms Laboratory (NSSL) there are several types of damaging winds including straight-line wind, downdraft, macroburst, microburst, downburst and derecho all of which can cause significant property and crop damage, threaten public safety, and have adverse economic impacts from business closures and power loss. Damaging windstorms in Adams County are typically straight-line winds. Straight-line winds are generally any thunderstorm wind that is not associated with rotation (i.e., is not a tornado). It is these winds, which can exceed 100 mph and are responsible for most wind damage related to thunderstorms. These winds can overturn mobile homes, tear roofs off houses, topple trees, snap power lines, shatter windows, and sandblast paint from cars. Other associated hazards include utility outages, arcing power lines, debris blocking streets, dust storms, and an occasional structure fire.

Figure 4-44 depicts wind zones for the United States. The map shows that the entirety of Adams County falls into Zone II, which is characterized by damaging winds of up to 160 mph.



Figure 4-44 Wind Zones in the United States



Source: FEMA

Geographic Location

The entire county is susceptible to any of the effects of severe tornados and damaging winds.

Previous Occurrences

Tornado season typically is March through August; however, a tornado can occur in any month.

Since 1950, Adams County has experienced 269 wind events (note: database search included tornado, high wind and strong wind) as recorded by NCEI Storm Events Database. The following table summarizes the events recorded in the Database.

Table 4-60 NCEI Recorded Tornado and Damaging Wind Events Summary, 1950-2018

Event Type	# of Events	Property Damage (\$)	Crop Damage (\$)	Deaths	Injuries
Tornado	175	\$26,901,270	\$6,500,000	0	43
High Wind	91	\$135,000	\$5,000	1	12
Strong Wind	3	\$21,000	\$0	0	0
Totals	269	\$27,057,270	\$6,505,000	1	55

Source: NOAA

The Storm Events Database collects information on each event from a variety of sources including but not limited to, county, state and federal emergency management officials, newspaper clipping services, the

insurance industry and the general project. Crop damages recorded in the Database should be considered broad estimates according to the National Weather Service. As discussed in the Section 4.3.3 Drought, the Cause of Loss Database maintained by the USDA Risk Management Agency helps to quantify the economic impact different natural hazards have on the agriculture in the County.

Note that the NCEI data shown above only includes uninsured crop losses. Insured crop losses from damaging wind occurred in Adams County every year between 2007 and 2018. During this 11-year period, over 43,000 acres were affected, and over \$3 million losses claimed due to damaging wind. The greatest losses occurred in 2009 with over 20,000 acres affected and over \$1 million in losses claimed.

Table 4-61 Crop Insurance Claims due to Damaging Wind, 2007-2018

Year	Determined Acres	Indemnity Amount
2007	711.27	\$35,499
2008	1,947.45	\$151,677
2009	20,682.38	\$1,765,149
2010	1,669.42	\$68,351
2011	2,548.54	\$401,011
2012	3,785.77	\$504,004
2013	2,970.20	\$249,744
2014	791.805	\$78,079
2015	358.37	\$9,483
2016	3,513.33	\$202,499
2017	2,062.37	\$142,225
2018	2,081.77	\$149,235
Total	43,123	\$3,756,956

Source: USDA RMA

The following is a summary of the narratives for the events of reordered from the NCEI Storm Events Database for damaging wind and tornado events specific to Adams County.

April 17, 2018 - Powerful post frontal bora winds blasted along the Front Range Foothills and across Northeast and East-Central Colorado. The damaging wind gusts ranged from 60 to 90 mph. The winds uprooted trees, shattered windows, sprayed roof shingles, tossed outdoor furniture like toys, and knocked over semitrailer trucks. It also blew up dust and debris, limiting visibility for motorists. The storm toppled trees onto homes and vehicles. A 70-foot spruce tree slammed into the roof of a residence and cut through the ceiling of the master bedroom; a 3-month-old infant was sleeping in the room but was not injured. The gusty conditions forced officials to close a number of roadways or place high-wind restrictions. Around 64,000 Xcel Energy customers experienced some sort of outage related to near-hurricane force winds that toppled trees and power poles. Service was not restored for approximately 5,000 customers until the following day. At Denver International Airport, delays occurred as two runways were temporarily shut down and 25 flights were diverted. Peak wind reports included: 71 mph at Bennett, 70 mph at Denver International Airport, 67 mph near Brighton, Buckley AFB and Strasburg.

May 15, 2015 - Two tornadoes touched down briefly in Adams County; an EF1 tornado north of Strasburg caused \$15,000 in property damages, and an EF0 north northwest touched down in an open field causing no damage.

July 13, 1996 - A fast moving tornado (F2) ripped a 12-mile path of destruction near Strasburg, in eastern Adams County. The tornado caused extensive structural damage to several galvanized metal grain silos, farm buildings and sheds in the area. The roof of a two-story log home was completely torn off; the



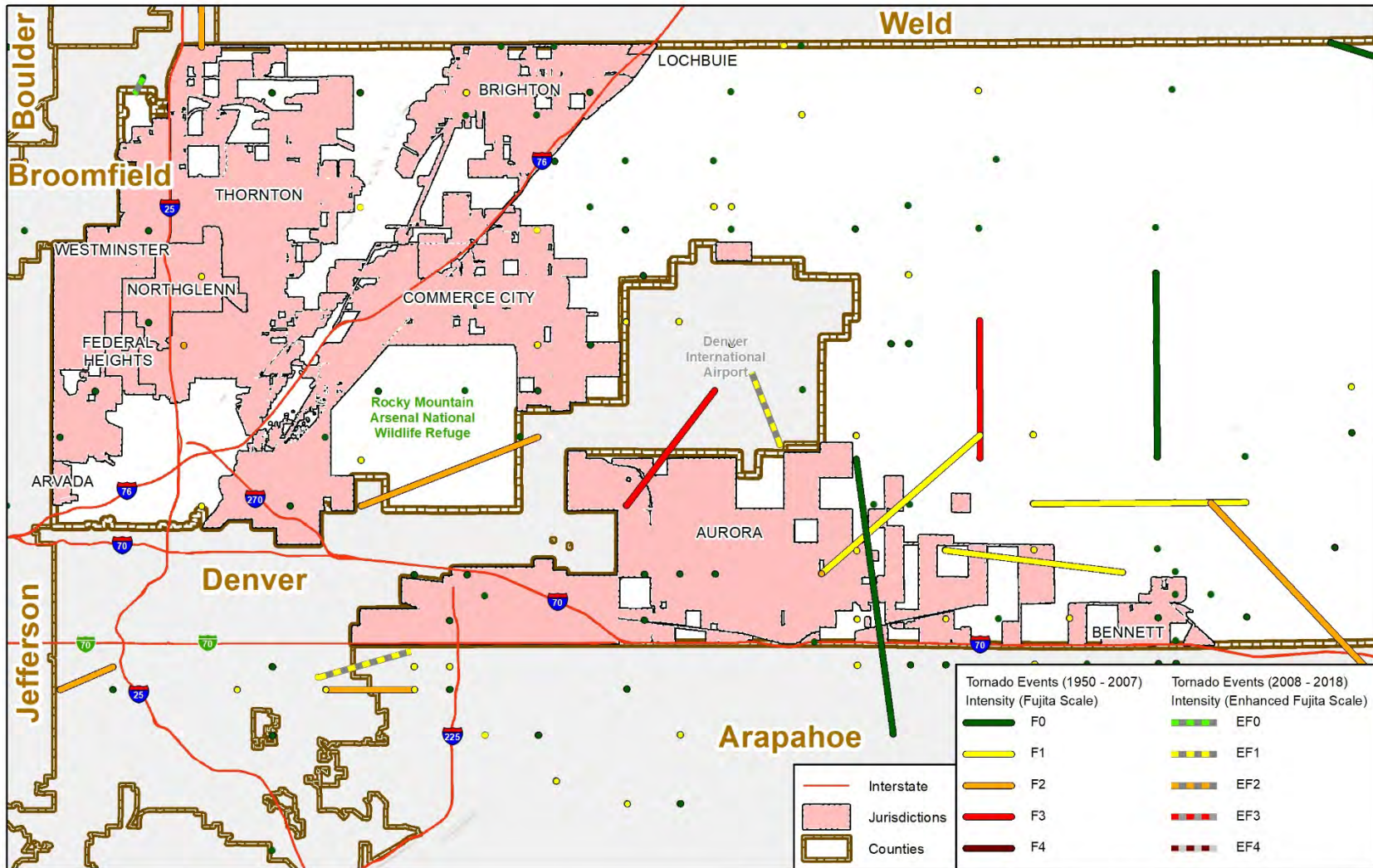
home received substantial damage from the wind and heavy rain that followed the tornado. \$220,000 damages to property and \$6,500,000 in crop damages were recorded.

June 3, 1981 – An F2 tornado caused 42 injuries and \$25,000,000 in property damages.

Figure 4-45 through Figure 4-48 show the past tornado and damaging wind events in Adams County and the associated Fujita Scale. Refer to the magnitude/severity section below for further information on the magnitude of past wind events in Adams County. Note that both maps appear to show fewer events and weaker events in the eastern half of the County; this is likely at least in part because tornados in the less populated portions of the County are less likely to be reported and/or cause damage.



Figure 4-45 Tornado Events in West Adams County 1950-2017



Map compiled 8/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI World Terrain Map,
NOAA Storm Prediction Center



Figure 4-46 Tornado Events in East Adams County 1950-2017

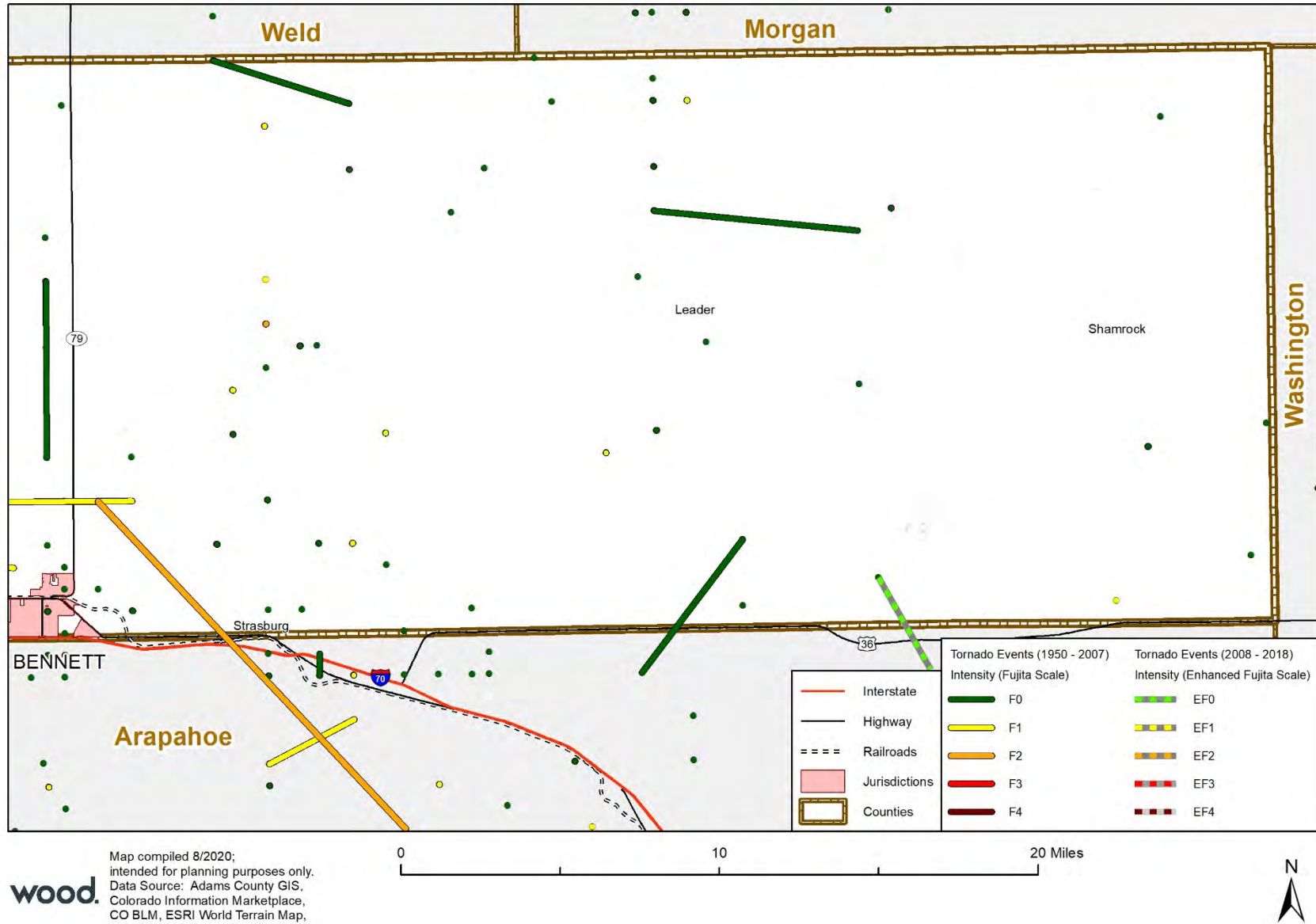
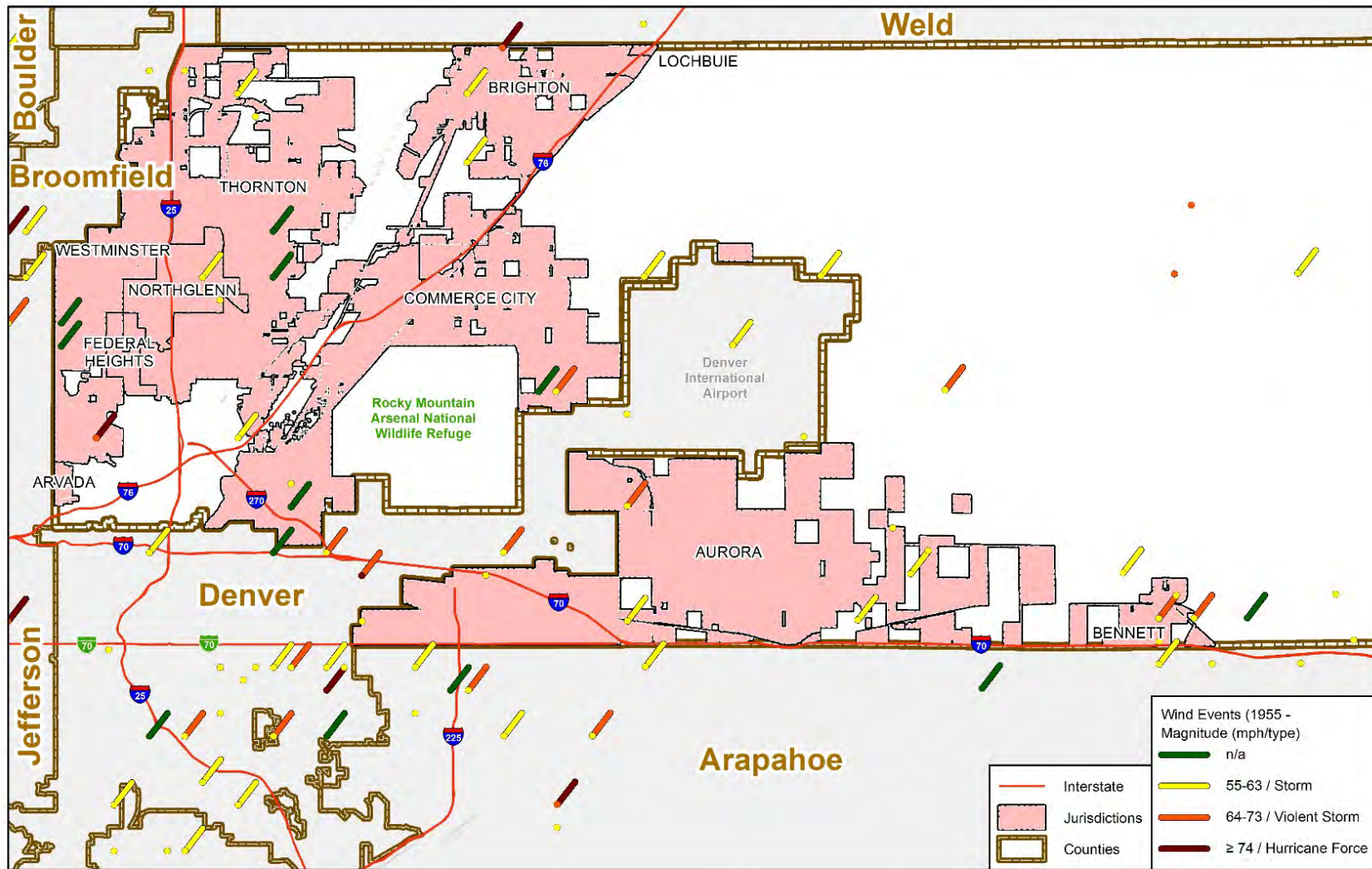


Figure 4-47 Wind Events in West Adams County 1955-2017



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI World Terrain Map,
NOAA Storm Prediction Center

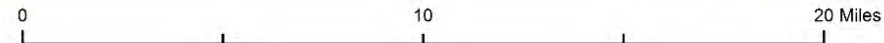
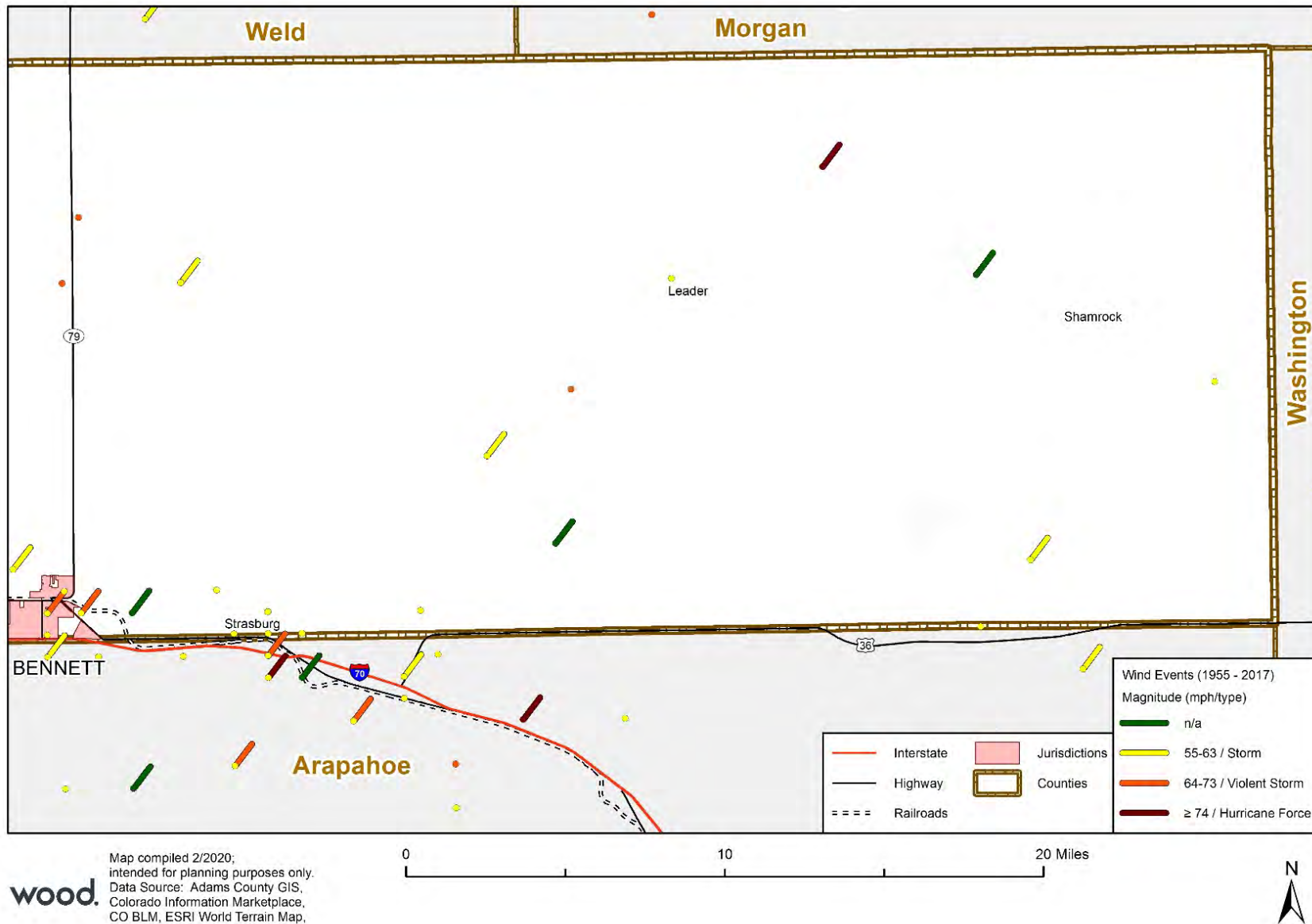


Figure 4-48 Wind Events in East Adams County 1955-2017



wood.
Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI World Terrain Map,
NOAA Storm Prediction Center

Probability of Future Occurrence

Two hundred and sixty-nine (269) damaging wind and tornado events have occurred in Adams County over 68 years of record keeping. Historical wind activity within the planning area indicates that the area is highly likely to continue to experience damaging wind during thunderstorm events with a potential of the formation of funnel clouds and low intensity tornadoes during adverse weather conditions.

Magnitude/Severity

Tornadoes can cause damage to property and loss of life. While most tornado property damage is caused by violent winds, the majority of injuries and deaths generally result from flying debris. Property damage can include damage to buildings, fallen trees and power lines, broken gas lines, broken sewer and water mains, and the outbreak of fires. Agricultural crops and industries may also be damaged or destroyed. Access roads and streets may be blocked by debris, delaying necessary emergency response.

Prior to February 1, 2007, tornado intensity was measured by the Fujita (F) scale. This scale was revised and is now the Enhanced Fujita scale. Both scales are sets of wind estimates (not measurements) based on damage. The new scale provides more damage indicators (28) and associated degrees of damage, allowing for more detailed analysis and better correlation between damage and wind speed. It is also more precise because it takes into account the materials affected and the construction of structures damaged by a tornado. Table 4-62 shows the wind speeds associated with the Enhanced Fujita Scale ratings and Figure 4-49 describes the potential damage at each EF scale.

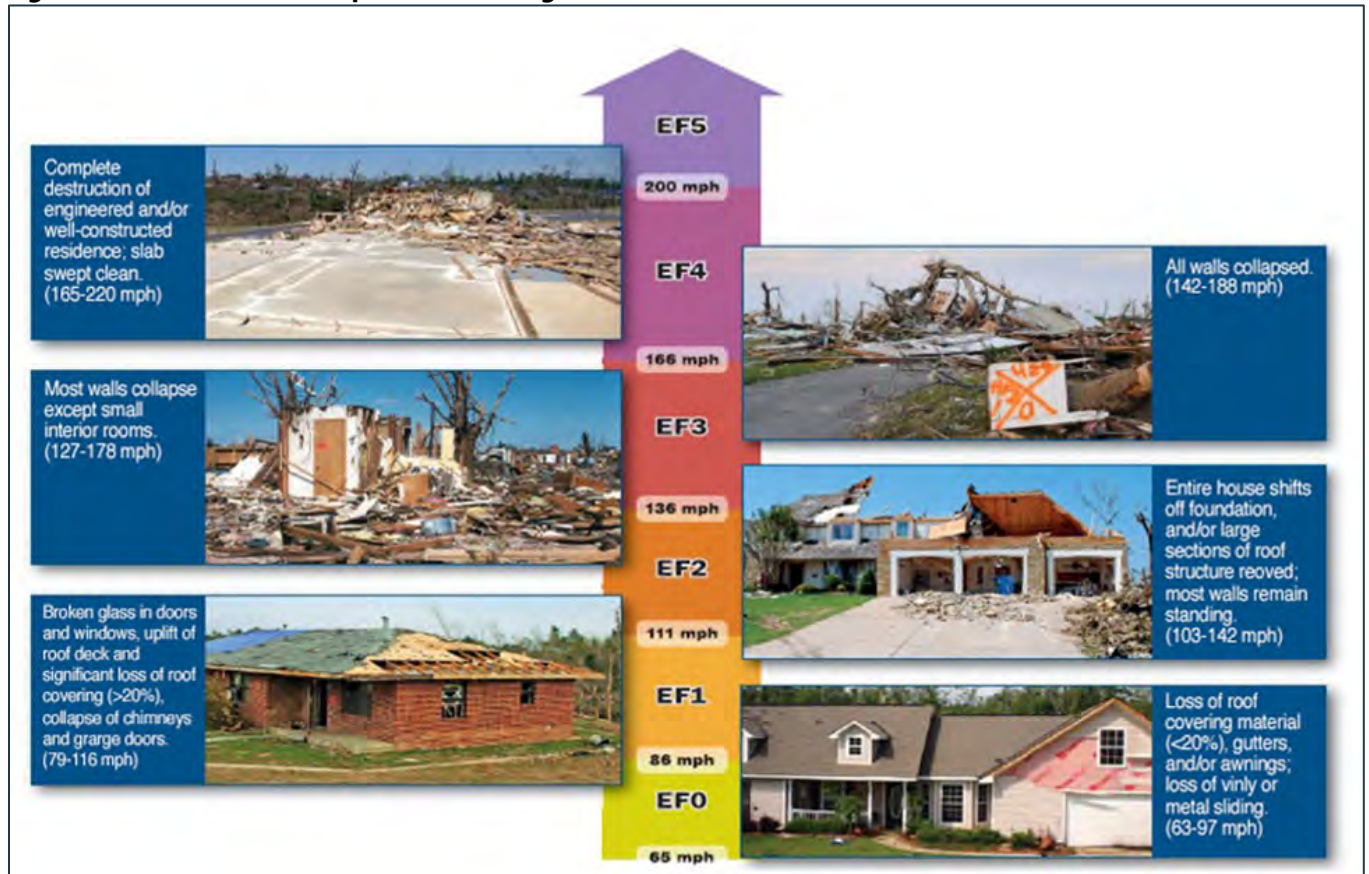
Table 4-62 Enhanced Fujita Scale

Enhanced Fujita (EF) Scale	Wind Speed Estimate (mph)
EF0	65-85
EF1	86-110
EF2	111-135
EF3	136-165
EF4	166-200
EF5	Over 200

Source: National Oceanic and Atmospheric Administration Storm Prediction Center, www.spc.noaa.gov/faq/tornado/f-scale.html



Figure 4-49 Potential Impact and Damage from a Tornado



Source: NOAA National Weather Service, Storm Prediction Center

Damaging wind is measured using the Beaufort Wind Scale as shown in Table 4-63 . This scale only reflects land-based effects and does not take into consideration the effects of wind over water

Table 4-63 Beaufort Wind Scale

Beaufort Number	Description	Wind speed (MPH)	Land Conditions
0	Calm	<1	Calm. Smoke rises vertically.
1	Light air	1 – 3	Wind motion visible in smoke.
2	Light breeze	3 – 7	Wind felt on exposed skin. Leaves rustle.
3	Gentle breeze	8 – 12	Leaves and smaller twigs in constant motion.
4	Moderate breeze	13 – 17	Dust and loose paper raised. Small branches begin to move.
5	Fresh breeze	18 – 24	Branches of a moderate size move. Small trees begin to sway.
6	Strong breeze	25 – 30	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult. Empty plastic garbage cans tip over.
7	High wind, Moderate gale, Near gale	31 – 38	Whole trees in motion. Effort needed to walk against the wind. Swaying of skyscrapers may be felt, especially by people on upper floors.



Beaufort Number	Description	Windspeed (MPH)	Land Conditions
8	Gale, Fresh gale	39 – 46	Some twigs broken from trees. Cars veer on road. Progress on foot is seriously impeded.
9	Strong gale	47 – 54	Some branches break off trees, and some small trees blow over. Construction/temporary signs and barricades blow over. Damage to circus tents and canopies.
10	Storm, Whole gale	55 – 63	Trees are broken off or uprooted, saplings bent and deformed. Poorly attached asphalt shingles and shingles in poor condition peel off roofs.
11	Violent storm	64 – 72	Widespread vegetation damage. Many roofing surfaces are damaged; asphalt tiles that have curled up and/or fractured due to age may break away completely.
12	Hurricane	≥ 73	Very widespread damage to vegetation. Some windows may break; mobile homes and poorly constructed sheds and barns are damaged. Debris may be hurled about.

Source: National Oceanographic and Atmospheric Association, <http://www.spc.noaa.gov/faq/tornado/beaufort.html>

The following table summarizes the magnitude of past tornado events as recorded in the NCEI Storm Events Database. There have been 217 tornado events with a recorded magnitude since 1950 in Adams County. The highest recorded wind event in Adams county was 89 miles per hour (mph) and the highest magnitude tornado recorded is an F3. The most commonly recorded tornado events in the Storm Events Data Base are F0/EF0 and F1/EF1 tornadoes.

Table 4-64 Summary of Magnitudes of Past Tornado Events in Adams County

Magnitude	# of Events
F0	88
F1	47
F2	9
F3	2
F4	0
F5	0
EF0	24
EF1	47
EF2	0
EF3	0
EF4	0
EF5	0
Total	217

Climate Change Considerations

There presently is not enough data or research to quantify the magnitude of change that climate change may have related to tornado frequency and intensity. NASA's Earth Observatory has conducted studies which aim to understand the interaction between climate change and tornadoes. Based on these studies meteorologists are unsure why some thunderstorms generate tornadoes and others don't, beyond knowing that they require a certain type of wind shear. Tornadoes spawn from approximately one percent of thunderstorms, usually supercell thunderstorms that are in a wind shear environment that promotes rotation. Some studies show a potential for a decrease in wind shear in mid-latitude areas. Because of uncertainty with the influence of climate change on tornadoes, future updates to the mitigation plan should include the latest research on how the tornado hazard frequency and severity could change. The level of significance of this hazard should be revisited over time.



Vulnerability

People

Community members are the most vulnerable to damaging wind and tornado events. The availability of sheltered locations such as basements, buildings constructed using tornado-resistant materials and methods, and public storm shelters, all reduce the exposure of the population. However, there are also segments of the population that are especially exposed to the indirect impacts of damaging winds and tornadoes, particularly the loss of electrical power. These populations include the elderly or disabled, especially those with medical needs and treatments dependent on electricity. Nursing homes, community-based residential facilities, and other special needs housing facilities are also vulnerable if electrical outages are prolonged, since backup power generally operates only minimal functions for a short time.

The impacts of tornado and damaging wind on vulnerable populations can be more severe. Comparing the maps in this section with the social vulnerability maps in Section 2-5 shows that the areas with the greatest social vulnerability have experienced high wind and tornado events. Families in this area may have fewer financial resources to prepare for or recover from a disaster, and may be more likely to be uninsured or underinsured. Poorer families are more likely to live in poorly constructed homes that are more likely to be damaged. Individuals with disabilities may need more assistance after an event, especially if transportation or utility services are disrupted. Severe weather warnings must use methods that reach vision or hearing impaired people and those with limited English proficiency.

General Property

General damages can be both direct and indirect. Direct damage refers to what the wind event physically destroys. Indirect damage focuses on additional costs, damages and losses from secondary hazards spawned by the event. Depending on the magnitude of the wind events as well as the size of the tornado and its path, a tornado is capable of damaging and eventually destroying almost anything. Construction practices and building codes can help maximize the resistance of the structures to damage. The County's current building code (2018 International Building Code) requires structures to be built to withstand a 90-mph wind event (EF1). According to the previous HMP, a significant portion of structures in the County were built under earlier building codes that may have had lower standards for wind resistance.

Secondary impacts of damage caused by wind events often result from damage to infrastructure. Downed power and communications transmission lines, coupled with disruptions to transportation, create difficulties in reporting and responding to emergencies. These indirect impacts of a wind event put tremendous strain on a community. In the immediate aftermath, the focus is on emergency services.

Critical Facilities and Infrastructure

Because of the unpredictability of wind events' strength and path, most critical infrastructure that is above ground is equally exposed to the storm's impacts. Due to the random nature of these hazards, a more specific risk assessment was not able to be conducted.

Economy

Both winds and tornadoes can impact exposed critical infrastructure; depending on the impact and the function, this could cause a short-term economic disruption. The most common problems associated with tornadoes and damaging winds are loss of utilities. Downed power lines can cause power outages, leaving large parts of the county isolated, and without electricity, water, and communication. Damage may also limit timely emergency response and the number of evacuation routes. Downed electrical lines following a storm can also increase the potential for lethal electrical shock, and can also lead to other hazard events such as wildfires.



Historic, Cultural, and Natural Resources

Damaging winds and tornadoes can cause massive damage to the natural environment, uprooting trees and other debris.

Future Development

As the County continues to increase in population, the number of people and housing developments exposed to the hazard increases. Adherence to current building codes, coupled with proper education on building techniques and the use of sturdy building materials, attached foundations, and other structural techniques may minimize the property vulnerabilities. Public shelters at parks and open spaces may help reduce the impacts of tornadoes and damaging wind events on the recreational populations exposed to storms.

Risk Summary

- 269 wind events have been recorded in Adams County in the past 68 years, including 175 tornados.
- Past wind events have resulted in a total of \$27,057,270 in property damages, 1 fatality, and 55 injuries.
- Between 2007 and 2018 over 43,000 acres were affected by damaging wind and over \$3 million losses claimed due to the hazard.
- Vulnerable populations are at higher risk of power outages from wind events
- Related Hazards: Thunderstorms, wildfire
- Overall significance is **High**

Table 4-65 Tornado/Damaging Wind Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Extensive	Highly Likely	Limited	High
Bennett	Extensive	Highly Likely	Catastrophic	High
Brighton	Extensive	Highly Likely	Limited	High
Commerce City	Significant	Highly Likely	Limited	Medium
Denver Water	Limited	Highly Likely	Negligible	Low

4.3.12 Wildfire

Hazard Description

Wildfire is defined as an unplanned and uncontained wildland fire, including unauthorized human-caused fires, which can be intentional or unintentional; escaped wildland fire use events, which are naturally ignited wildfires that are then managed for specific objectives; and escaped prescribed fire projects, which are fires ignited intentionally to meet specific objectives. In addition to forest fires, wildfires also include prairie fires or brushfires. Wildfires have the ability to consume large areas, including infrastructure, property, and resources.

The 2018 Colorado State Hazard Mitigation Plan defines four general categories of wildfire:

- **Wildland Fire** – fuel consists mainly of natural vegetation.
- **Interface or Intermix Fire** – urban/wildland fires that consist of vegetation and human-made fuels.
- **Catastrophic Fire** – a very intense event that makes suppression exceedingly difficult and negatively impacts human values.



- **Prescribed Fire** – any fire ignited by management actions to meet specific objectives. A written, approved prescribed fire plan must exist, and National Environmental Policy Act (NEPA) programmatic agreement requirements (where applicable) must be met, prior to ignition. Escaped prescribed fires are considered wildfires.

Three main factors influence wildfire behavior – topography, fuel, and weather. Fires can spread more quickly when flaming fronts meet upslope fuels; but valley bottoms and ridge tops can act as barriers to fire spread (Holsinger et al. 2016). During intense fires, understory vegetation, such as leaves, small branches, and other organic materials that accumulate on the ground, can become additional fuel for the fire. The most explosive conditions occur when dry, gusty winds blow across dry vegetation, causing the fire to spread rapidly.

Most of the eastern half of the County is dominated by agricultural and grazing lands. Fuel loads on grazing lands are moderate to heavy, and large fires have occurred with this fuel type during springtime wind events. Cultivated agricultural lands include both irrigated and non-irrigated crop land. Typically, this category of land has very dynamic burning characteristics and seasons. The dynamic nature of the fuel locations and seasons of availability adds to the challenge of wildfire suppression and mitigation.

Other hazards can influence wildfire probability and severity. Damaging winds can down power lines, earthquakes can crack gas lines, and lightning can spark fires. Lightning is a major cause of structural fires and wildfires. Drought conditions increase wildfire potential by decreasing fuel moisture. Climate trends including warm winters, hot and dry summers, and severe drought, continue to increase wildfire risk and the potential for catastrophic wildland fires in Colorado. Forest insect epidemics and forest parasites also contribute to wildfire potential by increasing fuel loading. Per the 2018 Colorado State Hazard Mitigation Plan, over the past two decades Colorado has experienced an increase in insect infestations that have left vast areas of forest vulnerable to wildfire.

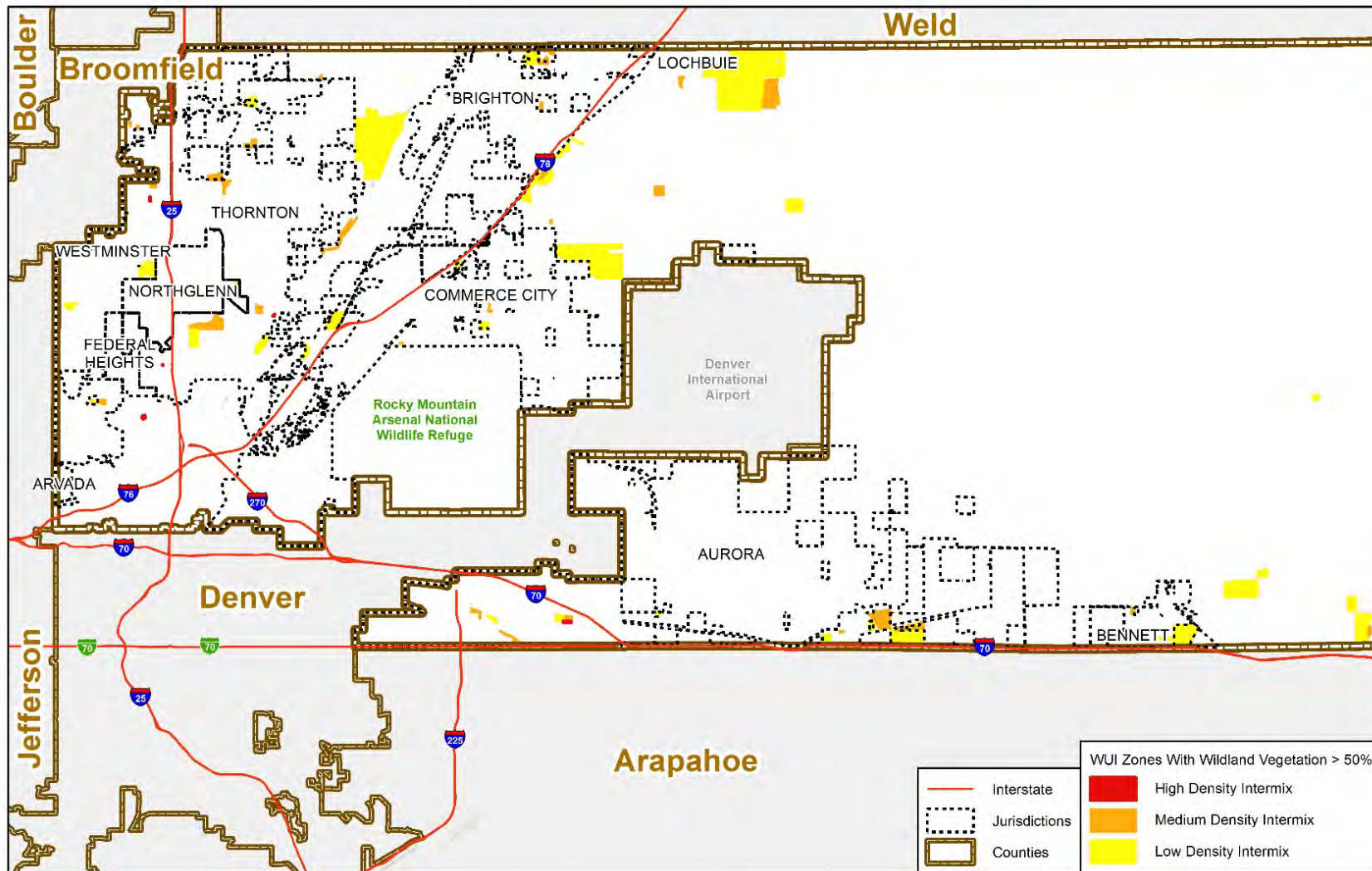
Geographic Location

Wildland fires can occur anywhere that natural vegetation exists as a fuel source, including forests and grasslands. Of greatest concern is the area where this vegetation meets and intermingles with developed areas, known as the Wildland-Urban Interface (WUI), because this is the area where wildfire can directly impact people and property. Figure 4-50 and Figure 4-51 show the high, medium, and low density WUI Zones with vegetation coverage of 50% or more in Adams County.

For additional details on the WUI Intermix vs. Interface areas, refer to the Vulnerability section below.



Figure 4-50 Wildland Urban Interface (WUI) Intermix Areas in West Adams County



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI World Terrain Map,
Adams County 2012 Comprehensive Plan

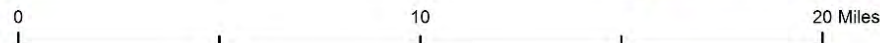
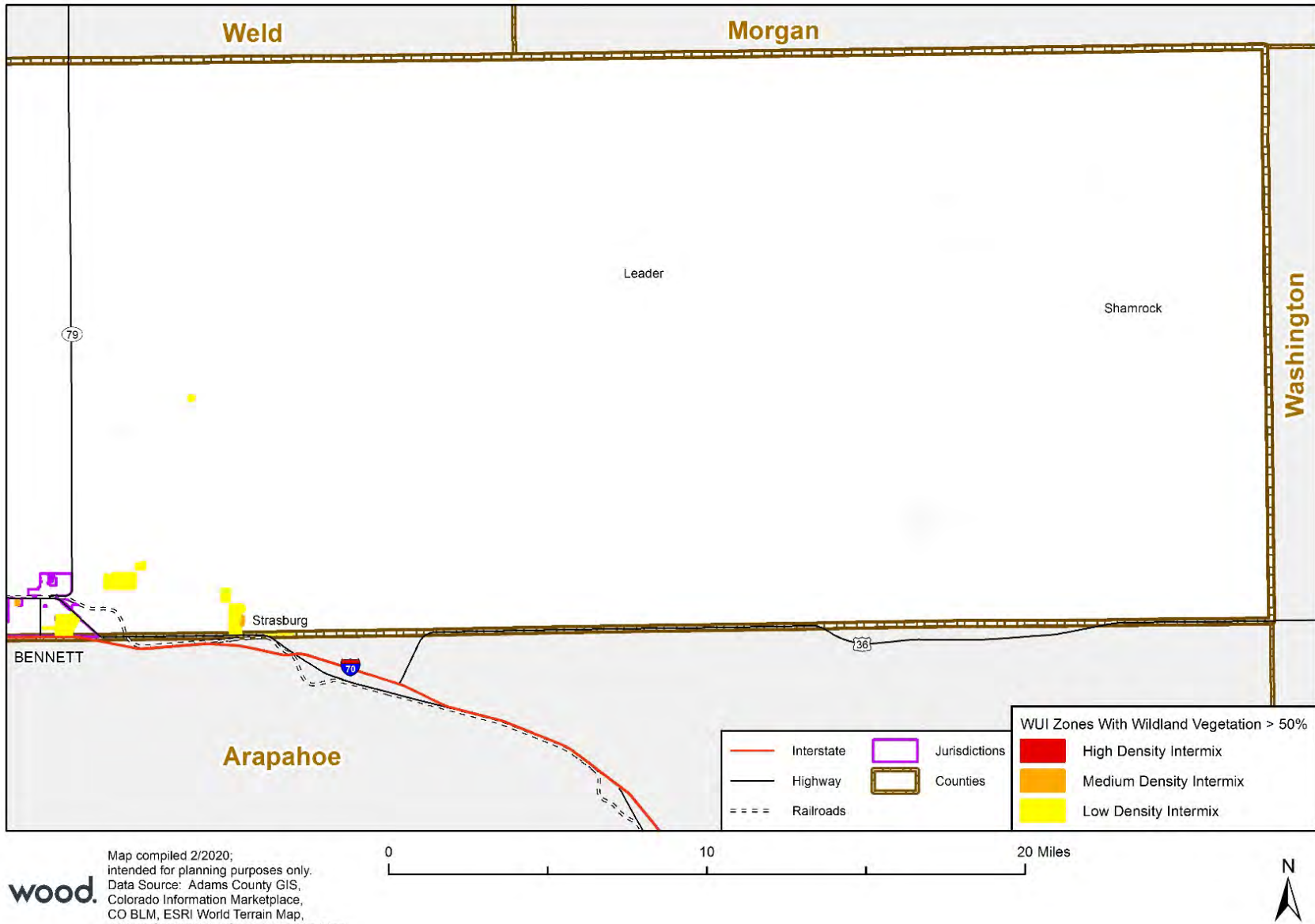


Figure 4-51 Wildland Urban Interface (WUI) Intermix Areas in East Adams County



Previous Occurrences

Table 4-66 details past fire events in Adams County from 2000 through 2018 according to data from the Federal Wildland Fire Occurrence database. During this timeframe, Adams County experienced 15 fire events that burned a total of 250.90 acres. Two-thirds of these events were human-caused. The most significant events in terms of acreage burned were the Section 32 Fire in 2006 and the Rattlesnake Hill fire in 2016.

Table 4-66 Adams County Fire History, 2000-2018

Year	Fire Name	Cause	Acres Burned
2006	Havana Fire	Natural	0.60
2006	James Fire	Natural	8.30
2006	Section 32 Fire	Natural	98.50
2007	Bison Fire	Human	1.30
2008	Gateway	Human	0.20
2010	Corral	Human	0.50
2011	Arsenal Fire	Natural	6.50
2012	Derby	Natural	0.40
2013	Lift Station	Human	0.10
2014	North Adams	Human	0.10
2014	South Adams	Human	0.10
2015	6th E	Human	0.10
2015	Center Post	Human	0.10
2016	IA 1601	Human	0.10
2016	Rattlesnake Hill	Human	134.00
TOTAL			250.90

Source: Federal Wildland Fire Occurrence database/GeoMAC (which accounts for USGS, BLM, BIA, FS, and NPS Fires), Wood analysis

Probability of Future Occurrence

Based on the above record of past events, Adams County has a 79% annual chance of experiencing a wildfire event, but only a 13% chance of that wildfire being a significant event. Conditions that cause wildfire, including drought, fuel loading, lightning strikes, and other human activities are expected to continue.

Magnitude/Severity

The Keetch-Byram Drought Index (KBDI) monitors fire danger using maximum daily temperature, and daily, antecedent, and annual precipitation. The index ranges from 0 (no drought) to 800 (extreme drought) (U.S. Forest Service Wildland Fire Assessment System 2019). Adams County considers an index of 400 to be minimum severity and an index of 600 to be a major severity for wildfire.



Table 4-67 Keetch-Byram Drought Index (KBDI)

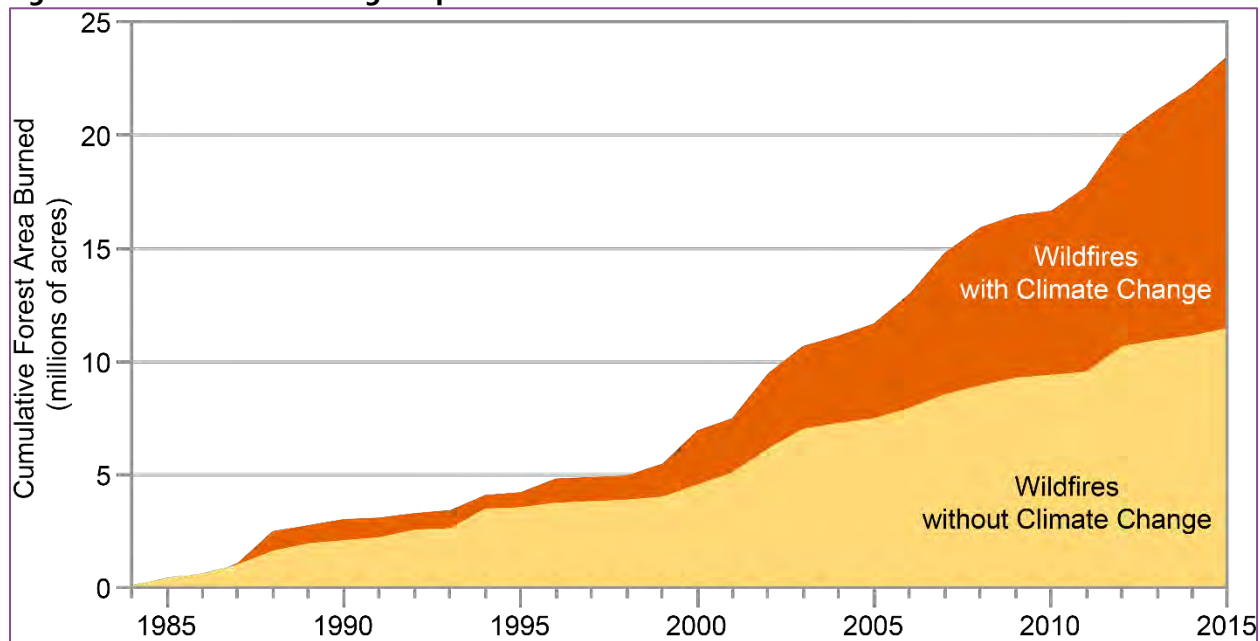
KBDI	Description
0-200	Soil and fuel moisture are high. Most fuels will not readily ignite or burn. However, with sufficient sunlight and wind, cured grasses and some light surface fuels will burn in spots and patches.
200-400	Fires more readily burn and will carry across an area with no gaps. Heavier fuels will still not readily ignite and burn. Also, expect smoldering and the resulting smoke to carry into and possibly through the night.
400-600	Fire intensity begins to significantly increase. Fires will readily burn in all directions exposing mineral soils in some locations. Larger fuels may burn or smolder for several days creating possible smoke and control problems.
600-800	Fires will burn to mineral soil. Stumps will burn to the end of underground roots and spotting will be a major problem. Fires will burn through the night and heavier fuels will actively burn and contribute to fire intensity.

Source: U.S. Forest Service Wildland Fire Assessment System, 2019

Climate Change Considerations

Per analyses cited in the Fourth National Climate Assessment, it is estimated that “the area burned by wildfire across the western United States from 1984 to 2015 was twice what would have burned had climate change not occurred.” This trend is shown in Figure 4-52. Additionally, “tree death in mid-elevation conifer forests doubled from 1955 to 2007 due, in part, to climate change. Allowing naturally ignited fires to burn in wilderness areas and preemptively setting low-severity prescribed burns in areas of unnatural fuel accumulations can reduce the risk of high-severity fires under climate change.” Overall, climate change is driving wildfire increase by drying forests and making them more susceptible to burning (Gonzalez et al. 2018).

Figure 4-52 Climate Change Impacts on Wildfires in the Western United States



Source: Fourth National Climate Assessment



Vulnerability

Potential exposure to wildfire was estimated using the Adams County Wildland Urban Interface (WUI) data, as firefighting costs in WUI areas are a major concern, and not just in Colorado but across the U.S. (USDA 2015). Within the WUI data in particular, both interface and intermix areas are available, but the “intermix” is used for analysis and mapping purposes herein; this is because it is within the Intermix where housing and wildland vegetation are intermingled and hence the coverage of vegetative content is proportionally higher. The table below defines in more detail the WUI areas and their vegetative content coverage percentages.

Table 4-68 WUI and Vegetated Classes and Definitions

Area	Description
WUI Areas	
Intermix	Areas with ≥ 6.18 houses per km^2 and ≥ 50 percent cover of wildland vegetation.
Interface	Areas with ≥ 6.18 houses per km^2 and < 50 percent cover of vegetation located < 2.4 km of an area ≥ 5 km^2 in size that is ≥ 75 percent vegetated.
Non-WUI Vegetated Areas	
No Housing	Areas with ≥ 50 percent cover of wildland vegetation and no houses (e.g., protected areas, steep slopes, mountain tops).
Very Low Housing Density	Areas with ≥ 50 percent cover of wildland vegetation and < 6.18 houses per km^2 (e.g., dispersed rural housing outside neighborhoods).
Non-Vegetated or Agriculture Areas	
Low and Very Low Housing Density	Areas with < 50 percent cover of wildland vegetation and < 49.42 houses per km^2 (e.g., agricultural lands and pasturelands).
Medium and High Housing Density	Areas with < 50 percent cover of wildland vegetation and ≥ 49.42 houses per km^2 (e.g., urban and suburban areas, which may have vegetation but not dense vegetation).

Source: USDA Forest Service - The 2010 Wildland-Urban Interface of the Conterminous United States, 2010. Available at https://www.fs.fed.us/nrs/pubs/rmap/rmap_nrs8.pdf

Based on the above table and descriptions, the WUI zones data where wildland vegetation was greater than 50% in the Intermix was used for the following parcel and critical facility analyses. Within the WUI Intermix zones where wildland vegetation was $> 50\%$, three categories of WUI zones were relevant to the planning area: Low Density Intermix, Medium Density Intermix, and High Density Intermix. The highest concern WUI Intermix area is the High Density Intermix, which is sporadically found across the county as displayed in Figure 4-50.

People

In addition to the potential for fatalities, wildfire and the resulting diminished air quality pose health risks. Exposure to wildfire smoke can cause serious health problems within a community, including asthma attacks and pneumonia, and can worsen chronic heart and lung diseases. Vulnerable populations include children, the elderly, and people with respiratory problems or heart disease. Even healthy otherwise healthy individuals may experience minor symptoms, such as sore throats and itchy eyes.

The last column of Table 4-69 below summarizes the number of people at risk to wildfire in the analyzed WUI Intermix zones, broken out by jurisdiction and WUI zone. Unincorporated areas of the County have the most potential population exposure (with 3,555 people), followed by Thornton (with over 2,300 people), Westminster (with 906), Commerce City (with 360), Northglenn (with 315), Aurora (with 183), Brighton (with 114), and Bennett (with 0 people exposed). These totals were estimated by multiplying the average persons per household in Adams County, which is 3.0, times the number of residential properties



falling within the considered WUI zones. Overall, the county has an estimated 7,791 potential people exposed in these WUI intermix zones based on the analysis and estimation methodology described.

General Property

Buildings, crops, and livestock are vulnerable in the event of a wildfire. Buildings without fire suppression systems are more vulnerable.

In addition, WUI Intermix areas were overlaid with the parcel data in GIS to estimate potential parcels exposed as well as their values, based on the methodology described under this vulnerability section introduction as well as Section 4.2 Asset Summary. Results of the spatial analysis are summarized, by WUI zone as well as jurisdiction, in Table 4-69 below. This analysis indicates that most exposed parcels are found in Low Density Intermix zones (for a total of 1,891), followed by the Medium Density Intermix zones (with a total of 810 parcels in those areas), and finally the High Density Intermix zones (with 47 parcels exposed). The breakdown of parcels and values found in WUI intermix zones is summarized based on parcel type under Table 4-70. Based on the second table, most parcels falling inside WUI intermix areas are residential, followed by exempt parcels and then commercial, agricultural, and state assessed parcels.

Table 4-69 Parcels Found in WUI Intermix Areas with Wildland Vegetation Higher than 50%, by WUI Zone and Jurisdiction

Jurisdiction	WUI Zone	Total Improved Parcels	Improved Value	Content Value	Total Value	Population Exposed
Aurora	Low Density Intermix	9	\$114,500	\$57,250	\$171,750	15
	Medium Density Intermix	43	\$819,770	\$409,885	\$1,229,655	129
	High Density Intermix	32	\$295,570	\$147,785	\$443,355	39
	TOTAL	84	\$1,229,840	\$614,920	\$1,844,760	183
Bennett	Low Density Intermix	1	\$0	\$0	\$0	-
	Medium Density Intermix	2	\$0	\$0	\$0	-
	TOTAL	3	\$0	\$0	\$0	-
Brighton	Low Density Intermix	2	\$0	\$0	\$0	-
	Medium Density Intermix	38	\$878,560	\$439,280	\$1,317,840	114
	TOTAL	40	\$878,560	\$439,280	\$1,317,840	114
Commerce City	Low Density Intermix	105	\$2,201,930	\$1,100,965	\$3,302,895	306
	Medium Density Intermix	18	\$330,360	\$165,180	\$495,540	54
	TOTAL	123	\$2,532,290	\$1,266,145	\$3,798,435	360
Northglenn	Low Density Intermix	106	\$1,843,080	\$921,540	\$2,764,620	315
	TOTAL	106	\$1,843,080	\$921,540	\$2,764,620	315
Thornton	Low Density Intermix	376	\$10,970,770	\$7,167,335	\$18,138,105	1,089
	Medium Density Intermix	428	\$9,910,040	\$5,283,625	\$15,193,665	1,251
	High Density Intermix	6	\$81,070	\$40,535	\$121,605	18
	TOTAL	810	\$20,961,880	\$12,491,495	\$33,453,375	2,358
Westminster	Low Density Intermix	239	\$11,527,520	\$6,566,430	\$18,093,950	690
	Medium Density Intermix	78	\$2,544,520	\$1,767,495	\$4,312,015	216
	TOTAL	317	\$14,072,040	\$8,333,925	\$22,405,965	906
Unincorporated	Low Density Intermix	1,053	\$30,894,310	\$16,269,295	\$47,163,605	2,976
	Medium Density Intermix	203	\$5,074,080	\$2,537,040	\$7,611,120	555
	High Density Intermix	9	\$123,120	\$61,560	\$184,680	24
	TOTAL	1,265	\$36,091,510	\$18,867,895	\$54,959,405	3,555
GRAND TOTAL		2,748	\$77,609,200	\$42,935,200	\$120,544,400	7,791

Source: Adams County 2014 HMP, Adams County GIS/Assessor's Office, U.S. Census Bureau, Wood analysis



Table 4-70 Parcels Found in WUI Intermix Areas with Wildland Vegetation Higher than 50%, by Parcel Type

Parcel Type	Total Improved Parcels	Improved Value	Content Value	Total Value	Population Exposed
Agricultural	20	\$550,010	\$550,010	\$1,100,020	--
Commercial	25	\$7,711,190	\$7,711,190	\$15,422,380	--
Exempt	104	\$1,720,740	\$860,370	\$2,581,110	--
Residential	2,597	\$67,627,260	\$33,813,630	\$101,440,890	7,791
State Assessed	2	\$0	\$0	\$0	--
TOTAL	2,748	\$77,609,200	\$42,935,200	\$120,544,400	7,791

Source: Adams County 2014 HMP, Adams County GIS/Assessor's Office, U.S. Census Bureau, Wood analysis

Critical Facilities and Infrastructure

Wildfires frequently damage community infrastructure, including roadways, communication networks and facilities, power lines, and water distribution systems. Efforts to restore roadways include the costs of maintenance and damage assessment teams, field data collection, and replacement or repair costs. Direct impacts to municipal water supply may occur through contamination of ash and debris during the fire, destruction of aboveground distribution lines, and soil erosion or debris deposits into waterways after the fire. Utilities and communications repairs are also necessary for equipment damaged by a fire. This includes power lines, transformers, cell phone towers, and phone lines.

Based on the GIS analysis performed, 27 critical facilities were found to be located within WUI Zones with wildland vegetation greater than 50%. These facilities are detailed by WUI Zone type, jurisdiction, FEMA lifeline, and type in Table 4-71.

Table 4-71 Critical Facilities in WUI Zones with Wildland Vegetation >50%

Wildfire	Jurisdiction	FEMA Lifeline	Critical Facility Type	Total	
Low Density Intermix	Aurora	Safety and Security	Landfills/Govt. Services	1	
	TOTAL			1	
	Brighton	Hazardous Material	HazMat EO Tier II Sites	1	
	TOTAL			1	
	Unincorporated	Transportation	Minor Bridge		2
		Safety and Security	Landfills/Govt. Services		2
		Safety and Security	Government Facilities		1
		Safety and Security	Fire Stations		1
		Hazardous Material	HazMat EO Tier II Sites		12
		Hazardous Material	Environmental Hazard Superfund		1
Food/Water/Shelter		Gravel Mines/Ponds		1	
Communications	Communication Towers		3		
TOTAL			23		
Low Density Intermix Total				25	
Medium Density Intermix	Unincorporated	Transportation	Minor Bridge	1	
		Communications	Communication Towers	1	
	TOTAL			2	
Medium Density Intermix Total				2	
GRAND TOTAL				27	

Source: Adams County GIS and 2012 Comprehensive Plan, HIFLD, Wood analysis

Economy

Economic consequences of wildfire can include the cost of fire suppression, reduced property values, lost sales and business revenues, reduced tourism, and increased water treatment costs.

Historic, Cultural, and Natural Resources

Wildfires have the potential to destroy forest and forage resources and damage natural habitats. Wildfire can also damage agricultural crops, timber, and other resources.

Secondary hazards can often follow a wildfire. For example, when vegetation burns and bare ground is exposed, severe erosion can result. When followed by heavy rains and flooding, mudslides and landslides may occur.

Following a wildfire, burned areas may be susceptible to the spread of invasive species.

Future Development

Exposure to wildfire will likely increase as development continues in interface areas, expanding the WUI. The 2018 Colorado State Hazard Mitigation Plan assigns Adams County an overall exposure projection of "High," despite a relatively low wildfire risk index, because the County population is projected to grow by 48% from 2010 to 2030.

Risk Summary

- There are 27 critical facilities at risk to wildfire in Adams County, primarily in unincorporated areas. The majority of these facilities are hazardous material sites.
- Related hazards: Drought, Thunderstorm (Lightning), Damaging Wind, Flood

Table 4-72 Wildfire Risk Summary

Jurisdiction	Geographic Location	Probability of Future Occurrence	Magnitude/Severity	Overall Significance
Adams County	Limited	Likely	Negligible	Low
Bennett	Limited	Highly Likely	Negligible	Low
Brighton	Limited	Likely	Negligible	Low
Commerce City	Limited	Occasional	Negligible	Low
Denver Water	Extensive	Highly Likely	Limited	Medium



5 Capability Assessment

This section summarizes Adams County’s existing mitigation capabilities, which are the policies and programs in place that are used to reduce hazard impacts or that can be used to implement hazard mitigation activities. Operational or training capabilities were not assessed. The purpose of conducting a capability assessment is to understand the County’s capacity for implementing mitigation activities. With a complete understanding of current capabilities, the County can better develop feasible mitigation activities and can identify opportunities to enhance capability in support of future mitigation. This assessment evaluates planning and regulatory capabilities, administrative and technical capabilities, financial capabilities, and other mitigation partnerships.

The County originally conducted this assessment in 2012 in support of development of the 2014 Comprehensive Plan. This original assessment was produced by compiling information from existing plans, policies, and staff interviews. As part of the 2020 HMP update, County staff completed a Data Collection Guide to identify key regulatory, administrative, technical, fiscal, and other policies, programs, and resources for mitigation. Based on this County input as well as additional staff research, this section was revised to capture changes since 2014 and reflect current capabilities. Revisions were also made to the organization of this section to focus on pre-disaster mitigation priorities.

This update process afforded the County and its participating jurisdictions the opportunity to review their previous capabilities and note the ways in which these capabilities have improved or expanded since the adoption of the previous plan. Additionally, in summarizing their current capabilities and identifying gaps, plan participants also considered their ability to expand or improve upon existing policies and programs as potential new mitigation strategies. Section 6 Mitigation Strategy includes mitigation actions aimed at improving community capability to reduce hazard risk and vulnerability.

Capability assessment information for the participating jurisdictions can be found in their annexes.

5.1 Planning and Regulatory Capabilities

Table 5-1 lists regulatory mitigation capabilities, including planning and land management tools, typically used by local jurisdictions to implement hazard mitigation activities and indicates those that are in place in Adams County. Excerpts from applicable policies, regulations, and plans and program descriptions follow to provide more detail on existing mitigation capabilities. For each of the profiled hazards, several ordinances, regulations, plans and programs were identified in various communities within County. These are listed here to serve as a reference for related planning efforts.

Table 5-1 Planning and Regulatory Resources

Regulatory Tool (ordinance, code, plans)	Yes/No	Comments
Comprehensive Plan	Yes	2014. Contains the previous Hazard Mitigation Plan . Scheduled for update in 2020-2021.
Zoning ordinance	Yes	Adams County Development Standards and Regulations
Subdivision ordinance	Yes	Chapter 5 of the Adams County Development Standards and Regulations (linked above)
Growth Management ordinance	Yes	Adams County abides by the Denver Regional Council on Government’s Metro Vision regional plan
Floodplain ordinance	Yes	C.R.S. 32-11-218
Building codes	Yes	2018 International Building Code (IBC)
Fire department ISO rating	NA	Adams County is served by multiple Fire Districts including: Adams County Fire Protection District, Bennett Fire Protection



Regulatory Tool (ordinance, code, plans)	Yes/No	Comments
		District, Brighton Fire District, Byers Fire District, Deer Trail Fire District, North Metro Fire District, Sable-Altura Fire District, South Adams County Fire District, Southeast Weld County Fire District, Strasburg Fire District
Erosion or sediment control program	Yes	Stormwater Quality (SWQ) Permit for Construction Activities
Storm water management program	Yes	Adams County Stormwater Utility
Site plan review requirements	Yes	Our site plans, other than planned unit developments, are reviewed at the building permit stage by planning staff.
Capital improvement plan	Yes	Adams County Public Works 5-Year Capital Improvement Program (CIP), 2018 – 2022
Economic development plan	Yes	Adams County has a designated economic development specialist and partnerships with various economic development nonprofits within the region. See our website page for this information.
Local emergency operations plan	Yes	2014 Emergency Management and Recovery Plan is currently being updated to a Disaster Management Plan
Other special plans	Yes	Adams County has subarea plans, housing plans, and open space/parks plans that are available on the following webpages: http://www.adcogov.org/long-range-planning , http://www.adcogov.org/master-plans-maps
Flood insurance study or other engineering study for streams	Yes	Mile High Flood District master drainage studies, flood hazard area delineations, and design reports
Elevation certificates (for floodplain development)	Yes	Yes, required for the Community Rating System managed under FEMA

Source: Data Collection Guide

5.1.1 Adams County Comprehensive Plan

Since adopting its first Comprehensive Plan in 1968, the County has conducted regular amendments and updates to address changing conditions and needs. Targeted updates to the County's original plan were conducted in 1975 and 1984, followed by a major update in 1999. Targeted updates to the 1999 Plan were made in 2004 to address the completion of E-470, the formation of the City and County of Broomfield, and rapid growth in the north Metro area.

The most recent update to the Comprehensive Plan in 2014 was titled "Imagine Adams County" and includes four distinct, but closely integrated components:

- Comprehensive Plan Update
- Transportation Plan Update
- Open Space, Parks, and Trails Master Plan
- Hazard Mitigation Plan

Integrating these four efforts, both in terms of the overall process and the resulting plans, represented a significant departure from previous planning efforts in Adams County and around the country. While the integration of land use and transportation efforts has become increasingly common in comprehensive plans, incorporating hazard mitigation was relatively new. This level of integration reflects Adams County's commitment to a more resilient and sustainable future.

In addition, the Imagine Adams County process was closely coordinated with the County's concurrent Open Space, Parks, and Trails Master Plan process, which provides direction for the future of the program.



The County is preparing for another update to the Comprehensive Plan in 2020-2021.

5.1.2 Emergency Operations and Recovery Plan

The Adams County Office of Emergency Management (OEM) is responsible for maintaining a County emergency operations plan. In a shift from previous plans, the County's updated Emergency Operations and Recovery Plan (EORP) incorporates recovery as a key element of emergency management.

The plan identifies the roles, responsibilities and actions required of elected officials, county departments, and partner agencies in preparing for, responding to, and recovering from emergencies and disasters. The plan establishes fundamental policies, strategies, and assumptions for a county-wide program that is guided by an all-hazards approach, the principles of the National Incident Management System (NIMS), and the planning guidance in FEMA's Comprehensive Preparedness Guide (CPG) 101. Additionally, the National Preparedness Guidelines (2007) and the National Response Framework (January 2008) were referenced to ensure that the Adams County EORP would be aligned with state and federal guidelines.

The plan approval process required review with each agency identified within the EORP, allowing for each agency to meet one-on-one with OEM; discuss plan components, roles and responsibilities; and provide input on the plan. Additionally, an EORP workshop allowed stakeholders the ability to clarify their roles and responsibilities and ensure a common understanding of the planning goals and objectives.

The base EORP and all of the supporting annexes are not developed and updated simultaneously. While the base plan serves as the foundation and legal basis for an emergency management program, much of the material pertaining to the actions taken to respond to disasters is located in the Emergency Support Function (ESF) Annexes. Annexes are developed and implemented through coordination of the lead and support agencies, but do not require Board of County Commissioners approval.

The EORP not only sets the procedures for emergency management within Adams County, but also exemplifies the administrative collaboration necessary for effective response, recovery, and mitigation.

5.1.3 Local Emergency Planning Commission

As noted in Section 4.3, Adams County's risk from hazardous materials incidents is among the highest in the state. Despite this risk, the legal and regulatory capabilities of the County to mitigate the additional risk created by hazardous materials facilities in the County are uncertain. State statute requires that the primary governing body having jurisdiction over the local emergency planning district, the County Commissioners, shall provide nominations for membership on the Local Emergency Planning Committee (LEPC), upon the request of the Colorado Emergency Planning Commission (CEPC) (24-32-2604, C.R.S.). Alternatively, the CEPC shall appoint members of an LEPC for each emergency planning district in accordance with the federal act. For local emergency planning districts for which no nominations have been submitted by the governing body, the commission may designate either the County commissioners or city council, as the case may be, to serve as the local emergency planning committee (24-32-2604, C.R.S.).

Adams County formally nominates and appoints LEPC members through the Board of County Commissioners. The mission of the LEPC is to enhance and create plans directing the response to hazardous materials incidents, increase compliance with hazardous materials reporting requirements, and continue to offer access to information on the storage of such materials for the benefit of the County's residents, businesses, and industries.

As the coordinating entity, OEM must satisfy all requirements mandated by the County, state, and federal governments including regulations pertaining to Tier II facilities. This includes records requests,



emergency planning responsibilities, and appropriate data management. The OEM has developed partnerships with numerous industries in the area to serve as members on the LEPC including Conoco Phillips, Suncor, Sinclair Oil, BASF, Atlas Roofing, Denver Water, Xcel Energy, and many of the local fire districts serving the area.

As shown on the EPA's website, "if a tank, drum, container, pipe, or other process at your facility contains any of the extremely hazardous toxic and flammable substances listed in the Code of Federal Regulations (CFR) at 40 CFR 68.130 in an amount above the threshold quantity specified for that substance, you are required to develop and implement a risk management program under a rule issued by the EPA." This is known as the Risk Management Program (RMP) rule and in Colorado, RMP information is submitted to CDPHE, but not necessarily the LEPC. In other words, without proper governance, expertise, and integration, both the Planning Commission and the LEPC may not have knowledge of the permitted use and effects of facilities within their own jurisdiction.

Information on Tier II facility locations is housed separately from the County planning function and the Planning Commission as required by state statute. A key goal of integrating comprehensive planning and hazard mitigation planning is to address future incorporation of the LEPC with the existing Planning Commission. The incorporation of these two commissions should help in the creation of an integrated planning process that addresses how hazardous materials facilities are impacted by the natural hazards in Adams County as well as how they impact current and future land use development.

5.1.4 Land Development Standards and Regulations

Zoning District Regulations

Zoning Districts are defined in Chapter 3 of the Adams County Development Standards and Regulations, which also includes a use chart outlining use categories that are permitted, conditionally permitted, and prohibited within each defined Zoning District. Zoning Districts were reviewed with a focus on spatially defined hazards that can be mitigated through growth management and development regulations, including hazardous materials incidents, flood, and subsidence.

With regard to hazardous materials incidents, uses that are permitted within Industrial, Institutional, Commercial, and Residential areas were reviewed. The Zone District definitions include three industrial zones:

- Industrial-1 District - general commercial and restricted industrial district designed to provide for a variety of compatible business, warehouse, wholesale, offices, and very limited industrial uses.
- Industrial-2 District - light manufacturing, processing, fabrication, assembly, and storage of non-hazardous and/or non-obnoxious material and products as well as allowing service facilities for industries and their employees.
- Industrial-3 District - heavy industrial district designed to accommodate most industrial enterprises.

According to the use chart, accessory dwelling units; institutional care facilities such as boarding houses, nursing homes, and hospitals; neighborhood indoor uses such as libraries, community centers, and recreation centers; and outdoor public uses such recreation areas, parks, and picnic areas are all permitted within the Industrial-3 Zoning District. This potentially allows facilities that house or serve vulnerable populations, including young children, elderly individuals, and others, to be constructed in areas where hazardous materials may be stored.

Aside from accessory dwelling units, residential uses are prohibited from Zone District I-3, preventing the ability for most residential units to be constructed in an area where toxic chemicals could be stored.



Additionally, Industrial uses such as heavy industry, heavy manufacturing or processing, light industry, light manufacturing or processing, moderate industry, and moderate manufacturing or processing are not permitted in any residential or commercial zones. This prevents the ability for industries that may store toxic chemicals to be constructed in residential or commercial areas where citizens unfamiliar with the dangers would live and work.

A zoning analysis was conducted using GIS parcel and zone district data obtained from the County GIS Department to analyze the location of Tier II facilities and RMP facilities and the corresponding zone district they are found in unincorporated Adams County. Refer to Section 4.3.6 Hazard Materials Incident, Table 4-42 for additional information on the findings of the analysis. The County's Development Standards and Regulations include the following Overlay Zoning Districts which impact hazard mitigation in Adams County:

Flammable Gas Overlay (FGO) District

It is the purpose of the Flammable Gas Overlay District to establish reasonable and uniform limitations, safeguards, and controls over uses of land designated as and/or adjacent to an operating or former solid waste disposal site. Any building, excavation, construction, or other use proposed in the FGO District shall require testing and/or mitigation related to flammable gas prior to obtaining a building permit and after receiving a certificate of occupancy. This Overlay District intended to ensure the protection of life and property from such related hazards as flammable gas, gas migration, asphyxiation, and explosion.

Flood Control Overlay (FCO) District

The FCO District is intended to limit land uses and thus reduce potential damages within the high risk flood zones. The FCO District incorporates the minimum requirements of the National Flood Insurance Program (NFIP) as well as some higher regulatory standards for additional protection.

The regulations encourage maximizing the FCO areas for open space and recreational/wildlife preservation uses outside of the urban developed areas of the County. Within urbanized areas, channelization is encouraged, however restrictions are established to limit potential associated problems including erosion and channel migration and to require no rise in the base flood elevation within floodway areas. Additionally, any proposed development must be shown not to reduce floodway capacity or increase base flood elevation.

Throughout the FCO, building restrictions are established to limit flood damages, including floodproofing and elevation requirements. With some exceptions, proposed development within the FCO requires a floodplain use permit and a certificate of occupancy.

Natural Resources Conservation Overlay (NRCO) District

Also relevant to flood hazard reduction, the NRCO District requires proposed development within the District to provide an open space set aside based on the acreage of floodplains, riparian areas, wetlands, lakes/reservoirs, and hydric soils within the site.

Mineral Conservation Overlay (MCO) District

The MCO District is relevant to mitigation of subsidence and undermined areas hazards. The MCO District establishes limitations and controls for the conservation and wise utilization of natural resources and for rehabilitation of excavated land. Land within this classification is designated as containing commercial mineral deposits in sufficient size parcels and in areas where extraction and rehabilitation can be undertaken while still protecting the health, safety, and welfare of the inhabitants of the area and the County. In cases where the location of the district or use abuts other zoning or use of land, structures, excavation, and rehabilitation may be restricted to be compatible with and protect the adjoining area. The



MCO prohibits excavation within 125 feet of existing residential development and prohibits excavation using rock crushers within 250 feet of residential development. It also sets slope stabilization and revegetation requirements.

Cluster Development and Transfer of Development Rights

Section 3-30 of the Development Standards and Regulations details provisions for Planned Unit Development (P.U.D.) which encourages development of land as a single unit and allows for greater flexibility in design. Among these provisions, P.U.D. standards allow for cluster development and transfer of development rights (TDR). Cluster development allows for increased density on one portion of a site in exchange for placing the undeveloped land on the site in a Conservation Easement.

Transfer of Development Rights allows for a similar trade in density but is accomplished across multiple sites, where certain areas intended to be preserved as open space are designated as sending areas and areas that can accommodate increased density are designated as receiving areas. Through TDR, a property owner may establish a Conservation Easement on a site in a sending area and use the development rights of that property to increase density of a development in a receiving area. The degree to which density can be increased in a receiving area is dictated by the acreage set aside in a Conservation Easement and the sending area ratio for development rights. The following areas are designated as sending areas in the Adams County TDR program:

- Airport Influence Zone: Includes the noise overlay for Denver International Airport and the Airport Influence Zone surrounding the Colorado Air and Space Port. Sending area ratio = 5:1.
- Important Farmlands: Includes farmlands of national or state importance and ranches and grazing lands of local or regional importance. The areas are based on geographic data from the 1999 Metro Vision Open Space Plan (DRCOG). Sending area ratio = 10:1.
- Natural Resource Conservation Overlay: Includes mapped floodplains in the western area of the County and areas east of the Barr Lake Buffer Zone. Sending area ratio = 15:1.
- Barr Lake/South Platte River: Includes the floodplain and important habitat area around the South Platte River as well as the Barr Lake Buffer Zone. Sending area ratio = 25:1.

Floodplain Management

Adams County has been a regular participant in the NFIP since February 1, 1979, which is also the date of the County's first Flood Insurance Rate Map (FIRM). Adams County joined the Community Rating System (CRS) on October 1, 2016 and is currently rated as a Class 9 community, which provides policyholders in the County with a five percent discount on their flood insurance premiums. The County is credited under the CRS program for a variety of flood hazard reduction activities, including maintaining elevation certificates, providing flood hazard map information, conducting outreach, providing flood protection information, preserving open space in high risk flood areas, adopting higher regulatory standards, and maintaining stormwater management activities. Adams County's higher standards, which go beyond the minimum requirements of the NFIP, include adoption of the International Building Code, local drainage protection requirements, protection of critical facilities, and a freeboard requirement.

Building Regulations

Adams County has adopted the 2018 IBC. The 2018 IBC specifically references the ASCE 7-16 Chapter 13 Seismic Design Requirements for Nonstructural Components Criteria. Colorado has traditionally been listed in the lowest seismic zone with wind and snow loads controlling building design. Buildings designed to meet the requirements of the 2018 IBC standards are expected to be adequate to withstand the severity of an earthquake in Colorado.



Additional Land Development Standards and Regulations

Table 5-2 describes additional specific codes/standards related to hazard mitigation.

Table 5-2 Land Development Codes Applicable to Hazard Mitigation

Code	Language
4-10-02-03 Extraction And Disposal Uses	Compliance with Colorado Department of Natural Resources. Requirements contained in this section shall not exempt the owner or operator of an extractive industry from compliance with the requirements of Colorado Department of Natural Resources. Prior to the approval of a Conditional Use Permit by the Board of County Commissioners, a reclamation contract shall be signed and approved by the owner or operator and the Colorado Department of Natural Resources.
4-10-02-03-02 Oil And Gas Well Drilling And Production	1. Purpose: The purpose of these oil and gas regulations is to protect the health, safety, and welfare of Adams County residents, to provide for sound environmental practices through the control of all oil and gas operations in the unincorporated areas of Adams County, and to prevent damage to County roads and bridges.
4-10-02-03-02 Oil And Gas Well Drilling And Production	4. Special Performance Standards: a. When Special Performance Standards Apply: Special Performance Standards may be imposed if a proposed oil or gas well location is not compatible with the surrounding area or if a proposed oil or gas well would have an adverse effect on the future development of the area. b. Incompatible Well: The oil or gas well is not compatible with the surrounding area when one (1) or more of the following occur: (1) Well Within 1,000 Feet of Dwelling (2) Well Within ½ Mile of Public Facility (3) Impact on Health, Safety and Welfare: The proposed facility would have an adverse impact on the health, safety, and welfare of the local inhabitants.
4-10-02-03-03 Solid And Hazardous Waste Disposal	1. General Operating and Performance Standards: The following General Operating and Performance Standards are applicable to all Solid Waste Disposal Sites and/or Processing Facilities: a. Compliance with Colorado Solid Waste Act b. Compliance with State Standards and Regulations....
4-10-02-04-03 Chemical, Petroleum, And Explosive Manufacturing	2. Fire District Review.... 4. Outdoor Activities Prohibited 5. Security Fence and Fire Proof Building 6. Prohibited Accessory Uses: Service stations, dwellings, or research laboratories are not considered accessory uses involved in the manufacture and storage of chemicals, petroleum products, or explosives
4-11-01-08 Prioritization Of Open Space Types	The following list represents the relative desirability of different types of open space/conservation areas, and should be used as the basis for determining the optimum location for open space/conservation areas within a proposed Open Space Subdivision: 1. Critical areas including riparian areas and floodplain.
4-11-02-04 Individual Protected Resources And NRCO District	PURPOSE: Waterbodies and wetlands provide critical functions in controlling floodwaters, providing wildlife habitat, cleansing water resources and contributing to the special scenic quality of Adams County. Reserving the one hundred year (100) year floodplain protects against the loss of life and property during flood events. The purposes of this Section are to define critical resources, and establish protection standards for waterbodies, floodplains, and wetlands.
4-11-02-04-02 Individual Protected Resources	1. Purpose: This Section establishes the protection standards for waterbodies, floodplains, and wetlands in order to protect the community as a whole from potential negative impacts caused by development which may affect these resources or their functions. This Section prohibits development on and within a certain distance of these resources.



Code	Language
5-02-07 Required Improvements Prior To The Issuance Of Building Permits	The following improvements shall be required, completed, and have preliminary acceptance granted by the Department of Public Works prior to issuance of a building permit for construction of residential, commercial, or industrial structures: 7. Utilities (including communications, electric power, gas, water, sewer).
5-03-02-04 Hazardous Conditions To Be Avoided Or Eliminated	Land subject to hazardous conditions such as landslides, mud or debris flows, flooding, subsidence, shallow water tables, geologic hazards, open quarries, floods, and non-potable water supply shall be identified and shall not be subdivided until the hazards have been eliminated or will be eliminated by the subdivision construction plans.
5-03-02-06 Design To Not To Encroach Into Floodplains	No developable lots shall be subject to inundation by a 100-year (1% frequency) flood unless an acceptable plan is submitted to alleviate the flooding condition...
5-03-02-08 Designed To Be Protected From Water Hazards	If a subdivision includes a water hazard such as an irrigation canal, water body or other water channel, necessary design precautions shall be taken to minimize any hazard to life or property, and additional measures such as fencing, water depth indicators, and erection of warning signs shall be taken, to the extent reasonably feasible.
5-04-05-01 Water Supply Approval	New water supply systems for irrigation, fire protection or other purposes required by the Board of County Commissioners shall be reviewed and approved by the appropriate Fire Protection District, Tri-County Health Department, Colorado Division of Water Resources, and the Colorado Department of Public Health and Environment Water Quality Control Division.
5-04-06-01 Individual Wastewater System Approval	New individual wastewater systems for sanitation or other purposes required by the Board of County Commissioners shall be reviewed and approved by the Tri- County Health Department.
9-01-03-09 Floodplain Management Floodplain Management	As part of its zoning resolutions, the County has adopted floodplain regulations necessary to preserve and promote the general health, welfare, and economic wellbeing of the region. The general purposes of floodplain regulations are summarized as follows: To reduce the hazard of floods to life and property;
9-01-03-10 Retention	In those areas of the County where no outlet presently exists for positive drainage to a major drainage system, the County will require retention of the runoff from a 24-hour, 100-year storm event plus one foot of freeboard until such connection becomes available...
9-01-11 Bridges	The hydraulic and hydrologic design of bridges within the County shall be in accordance with the Urban Drainage Criteria Manual Volume 2, Structures, Section 4 Bridges for this section. The Federal Highway Administration Hydraulics of Bridge Waterways or other County-approved resources shall also be used to determine the possible impacts on the drainage way (both upstream and downstream), scour potential and mitigation techniques for a proposed bridge structure. Based upon federal and state requirements, all new and replacement bridges shall comply with the floodplain regulations.

5.1.5 Sustainable Adams County 2030 Plan

In April 2015, Adams County completed the Sustainable Adams County 2030 Plan, which identifies four cornerstones of sustainability and sets 16 goals for ensuring long-term environmental, social, and fiscal sustainability in Adams County. The four cornerstones identified by the plan are Responsible and



Innovative Regional Leadership, Waste Management and Reduction, Conservation of Energy and Resources, and Respect for Adams County’s Heritage. Within the Conservation of Energy and Resources cornerstone, the following goals align with hazard mitigation efforts pertinent to drought:

- Reduce the use of potable water at county buildings and parks by 30%
- Support policies and provide incentives to reduce water used by residential and commercial buildings throughout the county

By aiming to reduce baseline water use, the County can limit the impact of drought conditions including reducing the probability of socioeconomic drought by lowering the overall demand for water.

Within the Respect for Adams flood Heritage cornerstone, the following two goals align with hazard mitigation efforts pertinent to drought:

- Maintain the conservation of acres of high quality agricultural lands
- To protect water quantity and quality, increase the number of publicly accessible acres conserved with reservoirs or within water corridors by 10%

By conserving land, especially near water corridors or reservoirs, the County can limit potential increases in hazard extent and property exposure caused by increased development.

The plan is set to be re-evaluated in 2020, which presents the opportunity for greater integration with the goals and actions identified in this hazard mitigation plan.

5.1.6 Transportation Plan

The Adams County Transportation Plan (2012), profiles the existing transportation systems as well as planned future regional transportation priorities that traverse through the County. The Plan also identifies the hazardous and nuclear material routes and the main railroad lines that traverse through the County. The Plan is closely tied to the County’s Capital Improvement Plan (CIP) with many of the identified projects in the Transportation Plan being funded through the CIP budgets. The Transportation Plan element of the County’s Comprehensive Plan will be going through an update process in 2020-2021. Refer to Section 2.9 of the Community Profile for information on the County’s transportation systems.

5.2 Administrative and Technical Capabilities

Adams County OEM is the primary agency responsible for emergency management and hazard mitigation in the County. However, mitigation is an interdisciplinary effort that requires collaboration across numerous departments and individuals. Administrative and technical resources are summarized in Table 5-3. Per this assessment, the County is well-staffed and equipped to assess and mitigate hazards, and to manage exposure through land management and building requirements. Additionally, the County has grant specialists to support efforts to pursue and manage outside funding for mitigation projects.

Table 5-3 Administrative and Technical Resources

Personnel Resources	Yes/No	Department/Position
Planner/engineer with knowledge of land development/land management practices	Yes	All of Community & Economic Development Department (CEDD) trained staff
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	CEDD
Planner/engineer/scientist with an understanding of natural hazards	Yes	CEDD



Personnel Resources	Yes/No	Department/Position
Personnel skilled in GIS	Yes	IT Department - GIS group
Full time building official	Yes	CEDD / building reviewers and chief building official
Floodplain manager	Yes	Floodplain Administrator in CEDD
Emergency manager	Yes	Full time
Grant writer	Yes	Grant Specialists within the Finance Department
GIS Data Resources (Hazard areas, critical facilities, land use, building footprints, etc.)	Yes	GIS system has layers for environmental hazards – i.e. brownfields, floodplains, etc./Maintained by data provided from outside agencies to GIS staff in IT
Warning Systems/Services (Reverse 911, cable override, outdoor warning signals)	Yes	CodeRed administered by AdCom911
Other Key personnel	Yes	Extensive County department resources headed by Department Directors and the Executive Leadership Team.

Source: Data Collection Guide

5.2.1 Office of Emergency Management

The Adams County Office of Emergency Management (OEM), located within the Department of Community Safety and Well-being, is the primary County agency responsible for the planning and coordination of local disaster services, including disaster prevention, mitigation, preparedness, response, and recovery. OEM is lead agency for ensuring the County has a Hazard Mitigation Plan, Emergency Response Plan along with supporting functional annexes, a Recovery Plan, and Continuity of Operations Plans. OEM is responsible for public outreach related to hazards, including educating the public on preparedness and mitigation actions.

OEM is also tasked with coordinating and supporting the Hazard Mitigation Planning Committee (HMPC), making them a key player in the implementation and maintenance of this Plan, as described in Section 7.

5.2.2 Community & Economic Development Department

The Community & Economic Development Department (CEDD) is the County's primary land use and planning agency. This department is responsible for a wide variety of programs and activities related to planning, zoning, permits, water conservation, stormwater, energy and housing for the unincorporated portion of the County. Staff often take hazards into consideration when reviewing development applications and updating the County land use plans, as the Department is responsible for applying the County's Land Use Code, Comprehensive Plan, and Building Code to each land use and construction permit application.

5.2.3 Public Works Department

The Public Works Department administers all construction activities within county public rights-of-way, and maintains and improves the County's infrastructure, including roadways, bridges and drainage facilities. The Department manages the development and implementation of the County's Capital Improvement Plan.

One of the programs run by the Public Works Department is the snow and ice control program. During storm events, snow and ice control takes precedence over all other operations division activities. Snow and ice control is one of the most cost and labor intensive programs managed by the operations division and includes not only plowing activities, but also the application of a liquid deicer both pre- and post-storm event, and disbursement of solid deicer and anti-skid material. Adams County has assigned three priority levels to roadways based upon road classification, emergency vehicle routes, and traffic volume.



During storm events where snow accumulation is less than eight inches, only priority routes 1 and 2 will be cleared. For storm events with greater than eight inches of snow accumulation, all routes will be served.

5.2.4 Parks, Open Space & Cultural Arts Department

The Parks, Open Space & Cultural Arts Department provides planning, management and maintenance of the county parks system that includes developed parks, open space, public park buildings, regional park / fairgrounds, trails, and the memorial bench program. The Department administers the Open Space Sales Tax, a 1/4 of one percent sales tax that goes to benefit parks, recreation, trails, and open space projects countywide.

5.2.5 Local Boards, Commissions, Committees

Adams County has several boards, commissions, and committees that are or could be involved in hazard mitigation activities. A few are described briefly below:

- **Adams County Foundation:** supports and strengthens programs and activities that improve the health, welfare, mobility and independence of Adams County Citizens.
- **Board of Fire Code Appeals:** this five-member Board interprets provisions of the International Fire Code in instances where it is alleged that the code has been incorrectly interpreted, provisions of the code do not fully apply, or an equivalent method of protection or safety is proposed.
- **Building Code Board of Appeals:** this five-member Board interprets the County's building codes in instances where it is alleged that the true intent of the code has been incorrectly interpreted, the provisions of the code do not fully apply, or the requirements of the code are adequately satisfied by other means. The Board has no authority to waive the provisions of the code.
- **Community Services Block Grant Advisory Council:** this nine-member board represents low-income, private and public sectors in the use of Community Services Block Grant funds and makes recommendations to the Board of Commissioners regarding grant awards.
- **Planning Commission:** a statutorily authorized board, appointed by the Board of County Commissioners, the commission prepares and adopts a county master plan, and reviews and makes recommendations concerning development applications within the county.
- **Tri-County Health Department Board:** a statutorily authorized board serving Adams, Arapahoe and Douglas Counties, the board is responsible for adopting policies for the public health administrator in administering and enforcing district public health laws, orders and rules, as well as the orders, rules and regulations of the state. The board also accepts and administers public health funds.

5.3 Financial Capabilities

The Finance Department provides all necessary accounting, budget, payroll, and purchasing and sales tax support and information to all County departments and the citizens of Adams County.

Table 5-4 details a variety of financial tools that can be used for mitigation and their availability to Adams County. Per this assessment, many of these funding mechanisms are eligible in Adams County but would require additional development to be accessible to use. For example, new taxes would require voter approval, CDBG funding would require further collaboration with CEDD staff, and withholding spending in hazard areas would require developing a formal program to manage.



Table 5-4 Financial Resources

Financial Resources	Accessible / Eligible to Use	Has Been Used in the Past	Comments
Community Development Block Grant	Yes	Yes	Would need to coordinate with CEDD staff that work with the CDBG funding to see if it can be allocated for HMP purposes.
Capital Improvements Project funding	Yes	Yes	Projects go through a CIP committee for recommendation to the County Manager for inclusion in the budget.
Authority to levy taxes for specific purposes	Yes	Unknown	Requires voter approval
Fees for water, sewer, gas, or electric services	Yes	Yes	County provides a Stormwater Utility to portions of Unincorporated Adams County.
Impact fees for new development	Yes	Yes	Traffic Impact fees for Roads & Bridges. public land dedication fee for Parks.
Incur debt through general obligation bonds	Yes	Unknown	Requires voter approval
Incur debt through special tax bonds	Yes	Unknown	Requires voter approval
Incur debt through private activities	Yes	Unknown	Provided that the County could/would not be responsible for debt.
Withhold spending in hazard prone areas	Yes	Unknown	For items where County controls the appropriation. Would need to have a program in place to withhold funding where hazards are identified.

Source: Data Collection Guides

With regard to mitigation and emergency management, the Finance Department is responsible for the following:

- Providing emergency procedures for purchasing supplies and/or equipment necessary for response and recovery operations in the disaster or emergency situation.
- Maintaining detailed financial records of all Adams County incident payroll accrued during an emergency or disaster and preparing reports for reimbursement accounting purposes.
- Providing County financial information to state and federal governments for emergency and recovery disaster relief.
- Coordinating with the elected officials, appointed officials, and department heads on fiscal policy, records, and expenditures.
- Providing necessary financial documentation for local, state, and federal damage assessment activities.
- Supply all appropriate forms and organizational items necessary for tracking costs per FEMA requirements.
- Coordinating disaster reimbursement where such state and federal disaster reimbursement policy requires such coordination.

5.4 Other Mitigation Programs and Partnerships

5.4.1 Public Outreach

Successful sustained mitigation depends upon robust collaboration between the public and private sector, different levels of government, municipal jurisdictions, departments, agencies and community groups within Adams County. In 2012, OEM created a Public Education and Outreach position to address this



issue. As of this plan update, OEM's outreach activities include giving a number of community presentations on community preparedness and hazard specific events, including tornado and winter storm, as well as providing educational information through social media.

5.4.2 Storm Ready

Adams County and the City of Arvada are currently certified as StormReady communities by the National Weather Service, which established the StormReady program to help local governments handle extreme weather and improve the timeliness and effectiveness of hazardous weather related warnings for the public. To be officially StormReady, a community must:

- Establish a 24-hour warning point and emergency operations center
- Have more than one way to receive severe weather warnings and forecasts and to alert the public
- Create a system that monitors weather conditions locally
- Promote the importance of public readiness through community seminars, and
- Develop a formal hazardous weather plan, which includes training severe weather spotters and holding emergency exercises

5.4.3 Firewise

Firewise USA® is a voluntary program that provides a framework to help neighbors get organized, find direction, and take action to increase the ignition resistance of their homes and community. The program is co-sponsored by the USDA Forest Service, the U.S. Department of the Interior, and the National Association of State Foresters. Adams County and its jurisdictions do not currently participate in the FireWise program.

5.4.4 National Flood Insurance Program (NFIP) and the Community Rating System (CRS)

Adams' County's participation in the National Flood Insurance Program (NFIP) and the Community Rating System (CRS) is described in detail in Section 4.3.5. The benefits of increased CRS participation are discussed in the next section.

5.5 Opportunities for Enhancement

Adams County has a number of financial tools that could potentially fund mitigation but many of these tools require further development before they can be used to fund a project. The County may want to consider further investigating the ability to use CDBG funds for mitigation projects so that projects can be proposed for any available funds. Additionally, the County may want to regularly develop a backlog of projects that could be submitted for CIP funding in order to anticipate and budget for future funds available for mitigation action implementation.

The Sustainable Adams County 2030 Plan, originally completed in 2015, is set to be re-evaluated in 2020. This planned update offers an opportunity to consider the ways in which building resiliency and mitigating hazards to prevent future losses may support the County's vision of environmental and financial sustainability. By integrating the Sustainable Adams County 2030 Plan with this Hazard Mitigation Plan, the County can identify and prioritize actions that meet goals of both plans.

Another opportunity to reduce flood losses in Adams County would be for the County to increase its CRS rating, and for other jurisdictions to join the CRS program or increase their ratings. Table 5-5 and Table 5-6 show the potential annual savings to flood insurance policy holders for each CRS Rating, along with the current ratings and savings for comparison. The direct financial benefits for Bennett, Brighton, and



Commerce City are relatively low, due to the small number of policies; however, the benefits of the County increasing its CRS rating would be approximately \$9,000 per year, per step.

Table 5-5 CRS Participation and Summary Information

Community	Current Rating	Policies	Total Premiums	Current Annual Saving
Adams County	9	170	\$218,920	\$9,849
Arvada	5	376	\$495,249	\$140,202
Aurora	7	271	\$171,365	\$14,677
Bennett	None	1	\$43	\$0
Brighton	None	7	\$2,615	\$0
Commerce City	None	21	\$13,025	\$0
Federal Heights	None	8	\$1,945	\$0
Northglenn	None	29	\$23,899	\$0
Thornton	6	66	\$42,688	\$5,228
Watkins	None	0	\$0	\$0
Westminster	6	101	\$58,369	\$3,318

Source: FEMA, as of 8/13/20

Table 5-6 Potential Benefits of CRS Ratings By Jurisdiction

Community	Class 9 Annual Savings	Class 8 Annual Savings	Class 7 Annual Savings	Class 6 Annual Savings	Class 5 Annual Savings	Class 4 Annual Savings	Class 3 Annual Savings	Class 2 Annual Savings	Class 1 Annual Savings
Adams County	\$9,849	\$18,794	\$27,740	\$37,589	\$46,535	\$55,480	\$64,426	\$73,372	\$82,318
Arvada	\$28,990	\$56,397	\$83,805	\$112,795	\$140,202	\$167,609	\$195,017	\$222,424	\$249,832
Aurora	\$5,118	\$9,867	\$14,677	\$19,795	\$24,574	\$29,354	\$34,133	\$38,912	\$43,692
Bennett	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Brighton	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Commerce City	\$216	\$311	\$406	\$622	\$717	\$812	\$907	\$1,002	\$1,097
Federal Heights	\$29	\$58	\$86	\$115	\$144	\$173	\$202	\$230	\$259
Northglenn	\$997	\$1,795	\$2,593	\$3,590	\$4,388	\$5,186	\$5,984	\$6,782	\$7,580
Thornton	\$1,373	\$2,614	\$3,855	\$5,228	\$6,469	\$7,711	\$8,952	\$10,193	\$11,434
Watkins	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Westminster	\$1,032	\$1,659	\$2,287	\$3,318	\$3,946	\$4,573	\$5,201	\$5,829	\$6,456

Source: FEMA, as of 8/13/20



6 Mitigation Strategy

DMA Requirement §201.6(c)(3):

[The plan shall include] a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.

6.1 Mitigation Strategy: Overview

This section describes the mitigation strategy process and mitigation action plan developed by the HMPC for Adams County. It describes how the County met the following requirements from the 10-step planning process:

- Planning Step 6: Set Goals
- Planning Step 7: Review Possible Activities
- Planning Step 8: Draft an Action Plan

The results of the planning process, the risk assessment, the goal setting, the identification of mitigation actions, and the hard work of the HMPC are captured in this mitigation strategy and mitigation action plan. The mitigation strategy was developed through a collaborative group process and consists of goals, objectives, and mitigation actions.

- **Goals** are general guidelines that explain what you want to achieve. Goals are defined before considering how to accomplish them so that they are not dependent on the means of achievement. They are usually long-term, broad, policy-type statements.
- **Objectives** define strategies or implementation steps to attain the identified goals and are specific and measurable.
- **Mitigation Actions** are specific actions that help achieve goals and objectives.

To support the updated goals, the mitigation actions from 2014 were also reviewed and assessed for their value in reducing risk and vulnerability to the planning area from identified hazards and evaluated for their inclusion in this plan update. Opportunities to better enhance mitigation efforts throughout the County were also identified and discussed.

6.2 Goals and Objectives

DMA Requirement §201.6(c)(3)(i):

[The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

As part of the 2020 plan update process, a comprehensive review and update of the mitigation strategy portion of the plan was conducted by the HMPC. The goals and objectives set forth in the 2014 Comprehensive Plan were revisited and revised as needed. The result is a mitigation strategy that reflects the updated risk assessment, progress on mitigation actions, and the new priorities of this plan update.

6.2.1 2014 Comprehensive Plan Goals, Policies, and Strategies

The 2014 Comprehensive Plan did not have a separate set of goals and objectives for hazard mitigation, but instead integrated mitigation throughout the Comprehensive Plan's Goals, Policies, and Strategies. The HMPC began by reviewing those Goals, Policies, and Strategies.



A key goal of the 2014 Comprehensive Plan is “to protect the health, safety, and welfare of Adams County’s inhabitants.” To accomplish this, the plan adopted policies and strategies “intended to reduce injuries and loss of life; trauma; damage to property, equipment and infrastructure; community disruption; and economic, environmental, and other losses caused by natural and industrial hazards that are likely to impact the County resulting in a more resilient and sustainable Adams County.”

The Goals of the 2014 Comprehensive Plan are:

- Goal 1: Promote Coordinated and Connected Growth
- Goal 2: Protect the Health, Safety, and Welfare of Adams County’s Inhabitants
- Goal 3: Foster Regional Collaboration and Partnerships
- Goal 4: Reduce the Fiscal Impact of Growth
- Goal 5: Promote Economic Vitality
- Goal 6: Preserve the County’s Natural Resources

Policies in the 2014 Comprehensive Plan related to mitigation include:

- Policy 2.4: Promote Regional Cooperation
- Policy 7.1: Boost Drainage and Flood Control Capacity
- Policy 7.3: Protect Water Supplies
- Policy 9.3: Preserve Water Corridors and Reservoirs
- Policy 9.4: Protect Culturally and Historically Significant Resources
- Policy 12.1: Reduce Risk and Effects of Natural Hazards
- Policy 12.2: Increase Public Awareness of Hazard Risks
- Policy 12.3: Limit Building in High-Risk Areas and Improve Disaster Prevention.

6.2.2 Updated Goals and Objectives for 2020 Hazard Mitigation Plan

Rather than revising the Comprehensive Plan Goals, Policies, and Strategies, the HMPC decided to adopt a set of goals and objectives for this plan update specific to hazard mitigation to better provide direction for reducing hazard-related losses in Adams County. In addition to the 2014 Comprehensive Plan Goals, Policies, and Strategies, the HMPC reviewed goals and objectives from other state and local plans to ensure that this Plan’s mitigation goals align with existing plans and policies. The following plans were reviewed:

- Colorado State Multi-Hazard Mitigation Plan (2018)
- Adams County Open Space, Parks & Trail Plans Master Plan (2012)
- Thornton, Federal Heights, & Northglenn Hazard Mitigation Plan (2017)
- City of Aurora Hazard Mitigation Plan (2016)
- City of Westminster Hazard Mitigation Plan (2018)
- Arapahoe County Multi-Hazard Mitigation Plan (2015)
- Jefferson County Multi-Hazard Mitigation Plan (2016)
- Weld County Multi-Jurisdictional Hazard Mitigation Plan (2016)

These goals and objectives were evaluated on their ability to address the results of the updated risk assessment, particularly the inclusion of human-caused hazards.

Goals were defined for the purpose of this mitigation plan as broad-based public policy statements that:

- Represent basic desires of the community;
- Encompass all aspects of community, public and private;



- Are nonspecific, in that they refer to the quality (not the quantity) of the outcome;
- Are future-oriented, in that they are achievable in the future; and
- Are time-independent, in that they are not scheduled events.

Goals are stated without regard to implementation. Implementation cost, schedule, and means are not considered. Goals are defined before considering how to accomplish them so that they are not dependent on the means of achievement. Goal statements form the basis for objectives and actions that will be used as means to achieve the goals. Objectives define strategies to attain the goals and are more specific and measurable.

Based on the risk assessment review and goals development process, the HMPC identified the following goals and objectives to provide direction for reducing future hazard-related losses within Adams County. These goals maintain alignment with the 2014 Comprehensive Plan goals and strategies, and will be used to inform the next update of that plan.

Goal 1: Increase community awareness of Adams County’s vulnerability to natural and human-caused hazards

Objective 1.1: Inform and educate the community about the types of hazards Adams County is exposed to, where they occur, and recommended responses.

- Continue the OEM outreach programs
- Coordinate public education preparedness programs and delivery
- Maintain OEM social media (Facebook, Twitter, Nextdoor, workplace) platforms
- Coordinate with County Communications Department for internal & external messaging

Goal 2: Reduce vulnerability and protect people, property, and the environment from natural and human-caused hazards

Objective 2.1: Provide mechanisms to enhance life safety

Objective 2.2: Reduce impacts to critical facilities and services

- Identify and protect critical facilities
- Protect hazardous materials facilities

Objective 2.3: Reduce impacts to existing buildings to the extent possible

Objective 2.4: Reduce impacts to future development to the extent possible

Objective 2.5: Reduce impacts to County natural resources

Objective 2.6: Reduce impacts to public health

Goal 3: Increase internal capabilities and coordination to reduce the impacts of natural and human-caused hazards

Objective 3.1: Improve planning coordination

Objective 3.2: Improve funding coordination

Objective 3.3: Improve response coordination

Goal 4: Strengthen communication and coordination among public agencies, NGO’s, businesses, and residents

Objective 4.1: Strengthen community and regional partnerships at all levels



6.3 Progress on Previous Mitigation Actions

The 2014 Comprehensive Plan also identified a number of mitigation actions, which the County has been successful in implementing to work steadily towards meeting the 2014 plan goals. During the 2020 plan update process the County reported on the status of the 2014 actions through the use of a reporting tool, describing if the action had been completed, was deferred (not yet implemented, but still relevant for the updated plan), was in progress, or should be deleted.

The 2014 mitigation strategy contained seventeen mitigation actions, six of which have been completed. The completed actions address flood as well as multiple hazards, and many relate to increasing coordination between County departments or between the County and incorporated jurisdictions. Refer to Table 6-1 for more information on the completed actions. Four of the 2014 actions are implemented annually or are currently in progress, and five have not been completed and are being carried forward into the 2020 Mitigation Strategy.

The Town of Bennett had four mitigation actions identified in the 2015 Arapahoe County Hazard Mitigation Plan, of which one has been completed, two are in progress and one was indicated as not having been started.

The City of Brighton also reported on the ten mitigation actions they had identified in the 2016 Weld County Hazard Mitigation Plan. Brighton has completed two actions; the other eight are in progress or have not been completed.

Because this is Commerce City’s first hazard mitigation plan, they did not have any previous actions to review. Similarly, Denver Water did not have any previous actions to review in Adams County.

Across all jurisdictions, nine mitigation actions from their previous mitigation plans have been completed and twenty actions are ongoing or in progress. Table 6-1 provides a summary of the mitigation actions that have been completed and deleted. More details on in-progress ongoing and new actions can be found in Section 6.5 and Table 6-2.

Table 6-1 Completed and Deleted Mitigation Actions

Jurisdiction	Hazard(s)	Mitigation Action	Priority	Comments
Adams County	Multi-Hazard: Thunderstorm, Tornado, Drought, Earthquake, Winter Weathers, Flood, Subsidence, Wildfire, Hazmat	Municipal IGA's for Preparedness Partnerships: Development of a Countywide IGA to integrate preparedness actions and response costs where not otherwise provided in state mutual aid agreements. Such IGA would provide for staffing of EOC resources, damage assessment teams, public works trucks and other equipment and labor pools.	High	Completed. IGA is in place, auto renewal every 5 years (needs to be updated)
Adams County	Flood	Storm Water and Flood Control Master Planning: Initiate where necessary master planning efforts, implement storm drainage improvements and storm warning systems.	High	Completed. Implementation of projects identified in the County’s Drainage Master Plan has resulted in 38 structures removed from the floodplain.
Adams County	Multi-Hazard: Thunderstorm,	Warning Systems: Investigate more effective warning systems for unincorporated Adams	High	Deleted. Determined to be not feasible. Warning



Jurisdiction	Hazard(s)	Mitigation Action	Priority	Comments
	Tornado, Flood, Wildfire, Hazmat	County. Examine Firstcall system, Notify Me and other systems owned or otherwise operated by Adams County Government that will provide effective notification for citizens and businesses.		systems are administered by AdCom-911. No systems administered by Adams County.
Adams County	Multi-Hazard: Severe Storms, Drought, Flood, Tornado, Wildfire, Winter Weather, Dam Failure, Land Subsidence, Earthquake	Ensure uninterrupted communication is available between County Departments during emergency periods: Determine which County facilities currently have radios, assess the appropriateness and feasibility of hardwiring, and investigate other options to ensure constant and uninterrupted communication is maintained during critical events. Address the internal department communications to integrate Public Works, Assessors, and First Responders.	Non-ranked	Completed. County uses ReGroup for internal notifications through email, text, phone. Radios are available in OEM and EOC for contact with 1st Responders.
Adams County	Flood	Hoffman Drainage Way: Enlarge undersized creek watercourse in order to remove more than 20 structures from the 100-year floodplain.	Non-ranked	Completed.
Adams County	Multi-Hazard: Severe Storms, Drought, Flood, Tornado, Wildfire, Winter Weather, Dam Failure, Land Subsidence, Earthquake	Dispatch Coordination: Implement NetCAD Capabilities into EOC operations for incident dispatch and coordination between dispatching agencies. Adams County has 5 different dispatch agencies that operate off the CAD system. Emergency managers operate off of WebEOC. These systems need coordination so as to better manage situational information and resource ordering between jurisdictions within the County.	Non-ranked	Completed. Received authorization to include CAD in the EOC and working with AdCom to implement. NCR is also working on Regional Coordination Framework and Resource Management Framework.
Adams County	Flood	Little Dry Creek Flood Mitigation: Since Little Dry Creek is close to residential areas that are within the floodplain, property improvements include reconstruction and elevation of 68th Avenue, and creating a park that will incorporate a regional detention pond. Creating a detention pond will help mitigate potential flooding of existing residences and provide recreational opportunities for Adams County citizens.	Non-ranked	Completed.
Town of Bennett	Flood	Town of Bennett to join the NFIP	High	Completed. Joined 9/12/2014.
City of Brighton	Flood	North Outfall Phase II. The core residential area of Brighton must have an upgraded outfall system. Complete engineering civil drawings and construct the outfall system. Design and construct a larger outfall system to convey flows to South Platte River. Add additional inlets and piping network to more efficiently collect storm runoff.	High	Completed.



Jurisdiction	Hazard(s)	Mitigation Action	Priority	Comments
City of Brighton	Flood	11th and Bridge Improvements. This intersection frequently floods after minor and major storm systems. Have the engineering team creating the City's master drainage plan look for the cause of the issues at this location. Complete any necessary improvements recommended by the engineering firm.	High	Completed. Analysis did not identify a cause for this. Modeling shows that no structures are at risk of flooding in the 100-year event at this location. No improvements required. This is likely due to system clogging.

6.3.1 Continued Compliance with NFIP

Recognizing the importance of the NFIP in mitigating flood losses, an emphasis will be placed on continued compliance with the NFIP by Adams County and its participating communities including the City of Brighton, Commerce City, and the Town of Bennett. As NFIP participants, these communities have and will continue to make every effort to remain in good standing with NFIP. This includes continuing to comply with the NFIP's standards for updating and adopting floodplain maps and maintaining and updating the floodplain zoning ordinance. Other details related to NFIP participation are discussed in the flood vulnerability discussion in Section 4.3.5, in the capability assessment in Section 5, and the individual jurisdictional annexes.

6.4 Identification and Analysis of New Mitigation Actions

DMA Requirement §201.6(c)(3)(ii):
<i>[The mitigation strategy shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.</i>

The natural and human-caused hazards identified in Section 4 Risk Assessment were evaluated to identify and select mitigation actions to support the mitigation goals and objectives described in Section 6.2. The HMPC decided to focus their mitigation efforts on those hazards identified as being high or medium significance. These priority hazards are:

- Thunderstorms (high)
- Tornado/Damaging Wind (high)
- Winter Weather (high)
- Flood (medium)
- Dam Failure/Incident (medium)
- Drought (medium)
- Hazardous Materials Incident (medium)

While the HMPC's focus was on mitigation against the above high and medium priority hazards, individual mitigation actions were suggested for some of the following low priority hazards, which are also addressed in public awareness mitigation actions, or in jurisdictional-specific actions where these hazards may be a higher priority.

- Earthquake
- Subsidence
- Wildfire



- Terrorism/Active Shooter
- Cyber Incident

Once it was determined which hazards warranted the development of specific mitigation actions, the HMPC analyzed viable mitigation options that supported the identified goals and objectives. The HMPC was provided with the following list of categories of mitigation actions, which originate from the Community Rating System:

- **Prevention:** Administrative or regulatory actions or processes that influence the way land and buildings are developed and built.
- **Property protection:** Actions that involve the modification of existing buildings or structures to protect them from a hazard or remove them from the hazard area.
- **Structural:** Actions that involve the construction of structures to reduce the impact of a hazard.
- **Natural resource protection:** Actions that, in addition to minimizing hazard losses, also preserve or restore the functions of natural systems.
- **Emergency services:** Actions that protect people and property during and immediately after a disaster or hazard event.
- **Public information/education and awareness:** Actions to inform and educate citizens, elected officials, and property owners about the hazards and potential ways to mitigate them.

At HMPC meeting number 3, the planning team was provided with a matrix showing examples of potential mitigation action alternatives for each of the above categories, for each of the identified hazards. The HMPC was also provided a handout that explains the categories and provided further examples. Another reference document titled "Mitigation Ideas" developed by FEMA was distributed to the HMPC via an online link. This document lists the common alternatives for mitigation by hazard. The HMPC was also instructed to consider both future and existing buildings in considering possible mitigation actions. Attendees were then asked to submit mitigation action worksheets prior to the next meeting.

6.4.1 Prioritization Process

At HMPC meeting number 4, each mitigation action proposed for the County was posted on the wall for members to review and discuss. The HMPC was provided with several decision-making tools, including FEMA's recommended prioritization criteria, STAPLEE, to assist in deciding why one recommended action might be more important, more effective, or more likely to be implemented than another. STAPLEE stands for the following:

- **Social:** Does the measure treat people fairly? (e.g., different groups, different generations) Does it consider social equity, disadvantaged communities, or vulnerable populations?
- **Technical:** Will it work? (Is the action technically feasible? Does it solve the problem?)
- **Administrative:** Is there capacity to implement and manage the project? (adequate staffing, funding, and other capabilities to implement the project?)
- **Political:** Who are the stakeholders? Did they get to participate? Will there be adequate political and public support for the project?
- **Legal:** Does the jurisdiction have the legal authority to implement the action? Is it legal? Are there liability implications?
- **Economic:** Is the action cost-beneficial? Is there funding available? Will the action contribute to the local economy?
- **Environmental:** Does the action comply with environmental regulations? Will there be negative environmental consequences from the action?



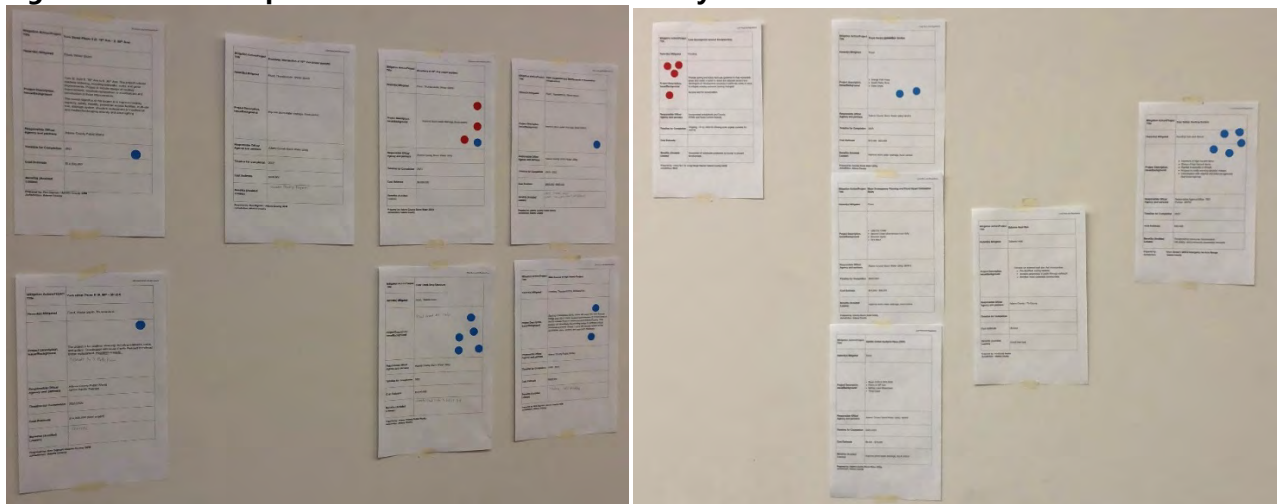
In accordance with the Disaster Mitigation Act requirements, an emphasis was placed on the importance of a benefit-cost analysis in determining action priority. Other criteria used to assist in evaluating the benefit-cost of a mitigation action included:

- Does the action address hazards or areas with the highest risk?
- Does the action protect lives?
- Does the action protect infrastructure, community assets or critical facilities?
- Does the action meet multiple objectives (Multiple Objective Management)?
- What will the action cost?
- What is the timing of available funding?

A facilitated discussion then took place to examine and analyze each proposed action. Attendees were given a table listing each proposed action, the type of project, and the hazards it addressed, and spaces for attendees to rank each project according to the STAPLEE criteria to determine which of the identified actions were most likely to be implemented and effective. Appendix A includes the matrix of alternatives considered, the mitigation categories, multi-hazard actions, and criteria, along with the project worksheets.

With these criteria in mind, team members were given a set of four blue sticky-dots and one red sticky-dot. The team was asked to use the dots to prioritize projects with the above criteria in mind, with the red dot going to the action they think should be the County's top priority. The number of dots per project was used to rank the projects as high, medium, or low priority, with red dots counting twice. This process provided both consensus and priority for the recommendations and helped the HMPC come to consensus and collectively prioritize recommended mitigation actions.

Figure 6-1 Examples of HMPC Prioritization Activity



Source: Amy Carr, taken on 2/5/2020

Emphasis was placed on the importance of a benefit-cost review in determining project priority; however, this was not a quantitative analysis. Benefit-cost was also considered in greater detail in the development of the Mitigation Action Plan detailed below in subsection 6.4. Specifically, each action developed for this plan contains a description of the problem and proposed project, expected project benefits, the entity with primary responsibility for implementation, a cost estimate, potential funding sources, and a schedule for implementation.

Recognizing the limitations in prioritizing actions from multiple jurisdictions and departments and the regulatory requirement to prioritize by benefit-cost to ensure cost-effectiveness, the HMPC decided to

pursue mitigation action strategy development and implementation according to the nature and extent of damages, the level of protection and benefits each action provides, political support, project cost, available funding, and individual jurisdiction and department priority. This process drove the development of a prioritized action plan for the Adams County planning area. Cost-effectiveness will be considered in greater detail through a formal benefit-cost analysis when seeking FEMA mitigation grant funding for eligible actions associated with this plan.

As discussed in Section 6.3, the HMPC reviewed the mitigation actions identified in the 2014 Comprehensive Plan and reported on the status of each of those actions. Actions that were not completed or deleted were also re-prioritized and are included in the updated mitigation strategy in Section 6.5.

The prioritization of mitigation actions in HMPC meeting number 4 focused on County-level actions, although the jurisdictions participated in the process. Follow up discussions were then held with each jurisdiction, and the emergency managers from each jurisdiction conducted their own process to identify and prioritize mitigation actions for their jurisdictions. While jurisdictions were given the freedom to develop their own prioritization criteria, they all chose to use the STAPLEE criteria to maintain consistency with the County process. These jurisdictional mitigation actions are included in Table 6-2 below.

Overall, a total of 19 new mitigation actions were developed for all of the participating jurisdictions in the 2020 Mitigation Strategy for Adams County.

6.5 Mitigation Action Plan

DMA Requirement §201.6(c)(3)(iii):

[The mitigation strategy section shall include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

This action plan was developed to present the recommendations developed by the HMPC for how the Adams County planning area will reduce the vulnerability of people, property, infrastructure, and natural and cultural resources to future disaster losses. Over time the implementation of these projects will be tracked as a measure of demonstrated progress on meeting the plan's goals.

The action plan summarizes who is responsible for implementing each of the prioritized actions as well as when and how the actions will be implemented. Each action summary also includes a discussion of the benefit-cost review conducted to meet the regulatory requirements of the Disaster Mitigation Act. Table 6-2 identifies the updated mitigation actions for Adams County and participating jurisdictions. Actions specific to other participating jurisdictions are detailed in the jurisdictional annexes.

It is important to note that Adams County and the participating jurisdictions have numerous existing, detailed action descriptions in other planning documents, such as general plan elements, community wildfire protection plans and capital improvement budgets and reports. These actions are considered to be part of this plan; refer to their original source documents for additional details. The Adams County planning area also realizes that new needs and priorities may arise as a result of a disaster or other circumstances and reserves the right to support new actions as necessary, as long as they conform to the overall goals of this plan.

The results of the 2020 action identification and prioritization exercise are summarized below in Table 6-2. The actions are grouped by corresponding goals of this plan. Included in the table are actions carried forward from the 2014 plan, which are noted as continuing-not completed or in progress projects in the



Project Status column. Continuing projects are those identified in 2014 that may have been started but either more work remains, or they are annually implemented projects. The summary table can be used for reference during future HMPC meetings to track progress moving forward. Additional details can be found in the Mitigation Action Worksheets included in Appendix D.

There are actions in the table that mitigate impacts to existing as well as new buildings and infrastructure. Actions that mitigate losses to future development are denoted by an '*' in the table on the action ID.



Table 6-2 Adams County 2020 Mitigation Action Plan

ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
Adams County Mitigation Actions									
AD-1	3	Multi-Hazard: Thunderstorm, Tornado, Earthquake, Winter Weather, Flood, Wildfire, Hazardous Materials	Redundant Emergency Operations Center Communication System: Develop an internal county team to identify current and potential fail points in the current system as well as to assess and develop recommendations to implement a secondary communication system to assure redundancy. Investigate the implementation of a redundant communication system in the Adams County EOC and the County Government Center where the EOC is located. Phone system currently utilized is VOIP. Cell phone coverage is limited or non-existent in some areas and land lines into the government center do not currently exist. While ARES capabilities are present in the EOC, they are not sufficient to manage the volume that may be necessary to support Type I or II Incident support.	Adams County OEM, IT	\$4,000,000	HMA grants and General Funds	High	2021	Continue – Not completed. No action; cell-phones provide back-up to landlines. ReGroup internal messaging system can also be used.
AD-2	2	Multi-Hazard: Thunderstorm, Tornado, Flood	Regional Park Access: Develop at least one alternative point of ingress and egress into the regional facility to ensure the safe movement of personnel, visitors, and vehicles during an emergency event. Provide additional access to the Adams County Regional Park to improve emergency vehicle access.	Adams County Parks	\$10,000	HMA grants and General Funds	High	2021	Continue – Not completed.
AD-3	3,4	Multi-Hazard: Thunderstorm, Tornado, Drought, Earthquake, Winter Weather, Flood, Wildfire, Hazardous Materials	Develop a Communications Plan for Critical Facilities within the County: Investigate options and develop a communications plan for critical facilities with input and assistance from County personnel including but not limited to: County Emergency Management, Emergency Medical Services (EMS), Tri-County Health Department, care facilities & hospitals, and Adams County schools. 1) Investigate and develop a communication plan with the at-risk population facilities. More specifically, facilities with large numbers of	County OEM and Tri-County Health	\$15,000	Grants and Adams County and Tri-Health	High	2021	Continue – Not completed. Alert & warning are generated through CodeRed, not the EOC. In addition to CodeRed, information is sent to the public through social media sites such as Nextdoor, Twitter



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
			<p>residents currently are not effectively connected to receive notification, warning and information from the County EOC. A communications plan and system are required to provide proper situational information and resources for public health needs.</p> <p>2) Investigate improved emergency communications systems with Adams County schools. County schools own their own communications systems to connect internally within their district. School districts within Adams County sit within multiple different municipal jurisdictions and are not effectively connected to receive notification, warning, and information from the County EOC. A communications plan and system are required to provide proper situation information and resources to the schools and the communities they serve.</p> <p>3) Emergency Medical Services (EMS) lead is needed for proper Public Health/Hospital Coordination. EMS Agencies are a part of the Public Health Plan, but due to statutory provisions there is no lead EMS agency at the state or local level. While legislation is needed to rectify on a state scale, Adams County requires a communications plan to effectively coordinate EMS agencies during any event where multiple EMS agencies are involved.</p>						
AD-4	1,2,4	Multi-Hazard: Thunderstorm, Tornado, Drought, Earthquake, Winter Weather, Flood, Subsidence, Wildfire,	<p>Public Education and Awareness Campaign:</p> <p>Initiate with municipalities and businesses a collaborative emergency management public education and information program. Investigate effective marketing strategies needed to provide education and information.</p> <p>1) Design a program to encourage residents and businesses to take preparedness actions on their own behalf. The program should utilize and build upon communication platforms such as YouTube and Webinars, to educate the public on hazards of greatest risk</p>	Adams County OEM	Little to no cost	Adams County and FEMA Grants	High	2021	In progress. Currently developing a number of community education programs and events to include a county safety fair.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
		Hazardous Materials	to the community. 2) Work with county businesses to develop disaster resistant business programs. 3) Develop public education & outreach to address ADA requirements for those who have access and functional needs. 4) Develop multi-lingual disaster education and functional needs preparedness into the community. 5) Develop public outreach materials addressing drought and water conservation.						
AD-5	3	Multi-Hazard: Thunderstorm, Drought, Flood, Tornado, Wildfire, Winter Weather, Dam Failure, Subsidence, Earthquake	Develop Recovery Plan and Integrate Emergency Planning and County Comprehensive Plan Activities: Assess the update cycle of the County Emergency Operation Plan and associated annexes as they support the County Comprehensive Plan. Determine activities to ensure that all plans are current and coordinated with the hazard mitigation hazard identification and risk assessment process and the Comprehensive Plan.	Adams County OEM	\$5,000	General fund budget and EM grants	Low	2020	In progress. County Disaster Management Plan scheduled for revision in 2020, to include appropriate annexes and support plans for response and recovery.
AD-6	2	Multi-Hazard: Thunderstorm, Flood, Tornado, Wildfire, Winter Weather, Earthquake	Regional Park Secondary Power: Investigate the implementation of a backup generator to help power the pump to the water supply.	Adams County Parks	\$3,000	County Parks budget	Low	2021	Continue – Not completed. Action added in 2014.
AD-7*	2,3,4	Multi-Hazard: Thunderstorm, Drought, Flood, Tornado, Wildfire, Winter Weather, Dam Failure,	Hazard Mitigation Steering Committee: Broaden and formalize the participation of the Mitigation Steering Committee to include City representatives and partner organizations. Educate them on the importance of their participation in the plan development process, updates and other periphery endeavors.	Adams County OEM	Little to no cost	General fund budget and EM grants	Low	2021	Annual implementation. Current steering committee is in place with invites to all partner agencies. Plan to include annual review of HM projects as part of on-going maintenance program.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
		Subsidence, Earthquake							
AD-8	2	Multi-Hazard: Flooding, Thunderstorm, Wildfire	96th Avenue Bridge Repair Project: Repair the 96th Avenue bridge over Bijou Creek located approximately 2.3 miles west of Rector-Leader Road in unincorporated Adams County. This project will rehabilitate the existing bridge to address critical structural problems. Phase 1 work will include repairs to the abutments, piers, girders, and approach roadways.	Adams County Public Works	\$662,000	HMA grants and General Funds	Low	2020-2021	New in 2020. Will mitigate impacts on 1 of 2 bridges on creek.
AD-9	2	Multi-Hazard: Thunderstorm, Tornado, Winter Weather, Flood, Dam Failure, Hazardous Materials, Earthquake, Subsidence, Wildfire, Terrorism	ADA Five Areas Project: Project will assist with evacuation and post-event mobility by providing better access in compliance with Americans with Disabilities Act improvements (curb, gutter, and sidewalks) in the following areas: <ul style="list-style-type: none"> • Area 1: 68th Ave – Washington St – York St • Area 2: E. 66th Ave – Washington St – York St • Area 3: Steele St – Niver Creek Tr – E. 86th Ave • Area 4: E 56th Ave – Lincoln St.- Washington St. • Area 5: E 55th Ave – Lincoln St. – Washington St. 	Adams County Public Works	Areas 1-4: \$5,360,000 Area 5: \$680,000	General Funds	High	2021	New in 2020.
AD-10	2	Multi-Hazard: Winter Storm, Flood, Thunderstorm	E. 88th Ave and Welby Road Intersection Improvements: This project will make improvements to E. 88th and Welby Road to address localized flooding at intersection. Project will also include traffic signals and ADA-compliant curb ramps to improve access and evacuation routes.	Adams County Public Works	\$613,978	General Funds	Low	2022	New in 2020. Adjacent to Steele St. project (AD-11).
AD-11	2	Multi-Hazard: Winter Storm, Hazmat	Steele Street Project: Extension of Steele St north of 86th Avenue to 88th Avenue to improve evacuation routes for hazmat incidents and during winter storms	Adams County Public Works /Thornton, RTD	\$1,700,000	General Funds	Low	2021	New in 2020.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
AD-12	2	Multi-Hazard: Winter Storm, Flood, Thunderstorm	Broadway at 59th Ave: Improve storm water drainage and flood control.	County Storm Water Utility and CDOT	\$8,000,000	HMA grants and General Funds	High	2023	New in 2020.
AD-13	2	Multi-Hazard: Flood, Thunderstorm	Clear Creek Drop Structure. Work with County Parks and MHFD to complete a flood hazard mitigation study. Currently flooding is impacting BNSF railroad. Working with BNSF to get structure out of floodway.	County Storm Water Utility and County Parks, MHFD, BNSF	\$3,000,000	HMA grants and General Funds, BNSF, MHFD	Medium	2021	New in 2020.
AD-14	2	Multi-Hazard: Winter Storm, Flood, Thunderstorm	Video Inspection and Maintenance of Stormwater Infrastructure. Will help with getting more accurate GIS data on infrastructure and better flood mitigation efforts, as well as stormwater management following thunderstorms and winter storms.	County Storm Water Utility	\$900,000	HMA grants and General Funds	Low	2020-2023	New in 2020. Current effort that has been ongoing since the 2013 floods.
AD-15	2	Thunderstorm, Tornado	Regional Park Sheltering: Review funding options as well as storm shelter alternatives (retro fitting or new construction) to provide Safe Rooms at the Regional Park. Provide adequate sheltering for severe storms and tornados. Currently the Regional Park is identified as the secondary location for an Alternate Care Facility and local transfer point for a public health event. Additionally, the park is the largest event center in unincorporated Adams County and frequently hosts events where thousands of people are in attendance. The Regional Park does not have adequate structures or facilities to shelter citizens during a significant weather event requiring immediate sheltering for life safety.	Adams County Parks	\$100,000	Grants and General Fund	High	2021	Continue – Not completed. No specific building(s) are designated as storm shelters, although there are several structures that can be used during severe weather.
AD-16	2	Flood	Acquisition projects: Purchase land located in problematic flood areas. Remove flood hazard via acquisition in the following areas thereby having the ability to limit or prohibit future land development in these areas: 1) Big Dry Creek Acquisition 2) South Platte River Acquisition	Adams County Parks and MHFD	\$1,000,000	Lottery monies and Open Space sales tax	High	Annual Implementation	Ongoing. Action added in 2014. Acquisition allows the County to limit or prohibit land development in these areas. The intent is for acquired land to be kept as open space.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
			3) Second Creek Acquisition 4) Clear Creek Acquisition 5) Third Creek Acquisition 6) Beebe Seep Canal Acquisition 7) Box Elder Creek Acquisition 8) Coyote Run Acquisition 9) Horse Creek Acquisition 10) Kiowa Creek Acquisition						
AD-17	2	Flood	Flood plans and studies: Conduct the following plans and studies. (1) Major drainageway planning and flood hazard delineation for Little Dry Creek, Second Creek (downstream from DIA), Brantner Gulch, and DFA0054; (2) Flood Hazard Delineation Studies for Grange Hall Creek, South Platte River, and Clear Creek; (3) Update Outfall Systems Plans for Basin 4100 & DFA 0056, Pecos & 54th, and Third Creek	Adams County Storm Water Utility and MHFD	\$14,000-\$30,000	HMA grants and General Funds, MHFD	Low	2021	New in 2020.
AD-18	2	Flood	Dahlia outfall system: Enlarge Dahlia Pond at southwest corner of I-76 to accept more stormwater. Dahlia St Project (Dahlia St from Hwy 224-I76).	County Public Works and MHFD	\$25,000,000	HMA grants and General Funds, MHFD	Medium	Mid 2021	New in 2020. This is a major basin as identified in FHAD developed by MHFD.
AD-19	2	Flood	York Street Phase II: E. 78th -E. 88th Ave. This project includes roadway widening, including sidewalks, curbs, and gutter improvements. Project to include design of roadway improvements, structure replacement or modifications and construction of those improvements. The overall objective of this project is to improve roadway capacity, safety, mobility, pedestrian access facilities, multi-use trail, drainage system, structure replacement or modification, and median/landscaping amenity and street lighting.	County Public Works	\$14,500,000	HMA grants and General Funds	Low	2021	New in 2020.
AD-20	2	Flood	York Street Phase III: Coordination with Union Pacific Railroad (UPR) on bridge replacement.	County Public Works and UPR	\$14,500,000	UPR, HMA grants and	Low	2021-2022	New in 2020. Adjacent to S. Platte River. Currently major floodplain issue.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
						General Funds			
AD-21*	1,2,3	Flood	Provide zoning and future land use guidance to map vulnerable populations: Create a toolkit to assist and educate owners/developers on development concerns related to planning and design related to vulnerable populations (senior facilities, low income, special needs) and ways to mitigate those concerns.	County and Incorporated Jurisdictions	Little to no cost	Staff Time/ Dept Budget	High	2023-2025	New in 2020.
AD-22	2,3,4	Dam Failure/ Incident	Dam Safety Alerting System: Coordination with internal and external agencies to enhance the County's alerting capabilities. <ul style="list-style-type: none"> • Inventory of high hazard dams • Status of high hazard dams • Rainfall thresholds to fill/spill • Process to notify warning decision makers 	County and MHFD, DWR Dam Safety, Denver Water	\$50,000	FEMA HMA Grants	Medium	2023	New in 2020.
AD-23*	2,3	Hazardous Materials	Hazardous Materials Facilities Planning and Regulation: Investigate the various methods of regulating incompatible land uses. 1) Review of existing zoning regulations; 2) Investigate a new zoning classification, performance standards, buffering requirements for critical facilities from schools, special needs facilities, and critical infrastructure; 3) Develop policies for a coordinated review process internal to the County for all Tier II Facilities; and, 4) Develop integration opportunities between the LEPC and the Adams County Planning Commission.	Adams County Community Development	Little to no cost	Adams County General Fund and Possible Grants	High	Annual Implementation	In progress. This is currently being done through the various planning committees and permitting departments.
Town of Bennett Mitigation Actions									
TOB-1	1,2	Multi-Hazard: Thunderstorm, Tornado,	Develop hazard mitigation brochure: Develop a brochure to made available to the public in hard copy and placed on the Town's website that will provide public information on	Town of Bennett - Safety Officer and	Little to no cost	Staff Time/ Dept. Budget	Medium	2020	New in 2020.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
		Winter Weather, Flood, Dam Failure, Hazardous Materials, Earthquake, Subsidence, Wildfire, Terrorism, Cyber	how to prepare for hazard events as well as mitigate vulnerabilities on their property.	Community Development					
TOB-2*	1,2,4	Flood	Participation and adoption of MHFD master plans.	Town of Bennett - Public Works, MHFD	Little to no cost	Staff Time/ Dept. Budget	Medium	2022	In progress. Town uses District's criteria and have adopted the standards. Not adoption ready
TOB-3*	2	Flood	Develop Stormwater Drainage Master Plan	Town of Bennett - Public Works	\$10,000 - \$100,000	HMA grants; Staff Time/ Dept. Budget	Medium	2022	In progress. Draft version was created but funding fell short before finalization. Currently pursuing new funding.
TOB-4*	2,3	Wildfire	Wildfire Mitigation Planning: Mitigation plan will be incorporated into Code of adoption of specific ordinance by the Town of Bennett	Bennett FPD	\$10,000-\$100,000	HMA Grants	High	2025	Continue – Not Completed.
TOB-5	2	Hazardous Materials	Stoplight and intersection infrastructure at Marketplace Drive and Hwy 79. This is a high traffic intersection right off I-70 with multiple businesses including King Soopers, Love's Travel w/truck stop, McDonalds, and a Tractor Supply. Redesign and installation of a stoplight area will assist with traffic safety for commercial vehicles as well as residential vehicles.	Town of Bennett - Public Works	\$1.2M	CIP Budget	Medium	2022	New in 2020.
TOB-6	2	Flood, Winter Weather	Replacement of culverts of on Kiowa-Bennett Road and Hwy 36. When Bennett experiences heavy rains and/or snowfall in this area, the Kiowa-Bennett road has experienced flooding and erosion issues. Replacement of	Town of Bennett - Public Works	\$500,000	CIP Budget	High	2021	New in 2020.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
			culverts is expected to reduce and/or eliminate the flooding and erosion.						
TOB-7	2	Flood	Design of expansion for wastewater treatment facility. With the growth that the Town of Bennett is experiencing, it is necessary to begin the process for design of expansion of this facility to accommodate the growth. The site also experienced stormwater flooding in 2019.	Town of Bennett - Public Works	\$350,000	CIP Budget	High	2021	New in 2020.
City of Brighton Mitigation Actions									
COB-1	1,2,4	Multi-Hazard: Drought, Earthquake, Subsidence, Flood, Winter Weather, Thunderstorm, Tornado, Wildfire, Hazmat	Integrate mitigation & preparedness planning into existing public education programs: Integrate in programs around the city to enhance resiliency of the community around all hazard vulnerabilities. Residents must be aware of local hazards and the mitigation & preparedness actions they can take to assist in protecting themselves and their families from the adverse effects, and to enhance community resiliency. Continued and additional community education and training to specifically address local hazards, containing detailed recommendations around potential community action items, which are crucial to continue to reinforce the need to take personal and individual action to mitigate risk related to local hazards. Add information about local hazards and mitigation strategies into existing citizen centered trainings and/or developed hazard and response specific training for citizens as needed to provide information to residents about mitigation/preparedness options in their community.	City of Brighton/ Brighton Fire Rescue District's OEM	\$5,000	HSGP, EMPG, local budgets	High	2021	In progress. Community education programs (CERT, Citizen Police Academy, Weather Spotter etc.) contain the most recent assessment of local hazards and mitigations actions that can be undertaken by community members to promote resiliency. This program is always in process as additional classes are hosted and hazards are evaluated.
COB-2	2	Multi-Hazard: Thunderstorm, Tornado,	Emergency Services Support Generator: Currently, the city maintains only a small generator at the Brighton Police Department, capable only of supporting minimal	City of Brighton	\$200,000	FEMA HMA funding, City of Brighton Capital	High	2022	Continue – Not Completed. A project to develop backup power for shelter



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
		Winter Weather, Flood, Dam Failure, Hazardous Materials, Earthquake, Subsidence, Wildfire, Terrorism, Cyber	emergency lighting, the security of detention cells, and limited communication systems. The current generator cannot support the emergency coordination functions which take place at this location. Install a generator and associated wiring to support emergency functions during a short- or long-term power outage. The wiring and installation of a 500KVA generator and a 1200amp transfer switch would allow for a reliable back up power source at a critical city facility. This generator would support key city staff and services at this location and would allow for the relocation of staff and continuity of critical services. In addition, emergency support related services and functions are coordinated from this location. Critical emergency support functions such as operation of the Emergency Operations Center (EOC), location of the Policy Group meeting area and information center, the Joint Information Center (JIC) and local law enforcement operations are designated to take place at this location.			Improvements budget			sites was determined to be higher priority and has been underway since 2015.
COB-3	2	Multi-Hazard: Winter Weather, Thunderstorm, Tornado	Public/Emergency Shelter Generator for Eagle View Adult Center: Eagle View Adult Center is the main shelter location for the city. It does not have a generator nor is the building wired to accept a generator. Project would be purchasing a generator and wiring the building to setup the generator. Benefits: Ability to safely shelter residents during power loss.	City of Brighton OEM and Parks and Rec	\$250,000 - \$300,000	HMA grants and General Funds	High	2025-2030	New in 2020. UASI funding was secured in 2015 to wire the Eagle View Adult Center for receiving a generator, but due to an extreme overrun in expected construction costs, this project was never implemented, and funding was returned to UASI.
COB-4	2	Tornado	Expansion of Outdoor Warning System: Expand the City's siren system to cover portions of unincorporated Adams and Weld Counties. Several areas within the Brighton Fire Rescue District and the north area (Weld County) of the City of Brighton are without	City of Brighton, Brighton Fire Rescue District	\$45,000 per unit	HMA funding	High	2021	In progress. Sirens scheduled to be installed at Great Rock and Todd Creek Fire Stations with HMP funds have been completed.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
			outdoor warning sirens. Installation of additional warning sirens in the locations lacking coverage to warn residents of potential hazards.						Plans for an additional unit to be placed at Vestas have been put on hold pending the development of an easement for public safety facility.
COB-5	2	Flood	North Outfall Phase III: Complete engineering civil drawings and construct the outfall system. Design and construct a larger outfall system to convey flows to South Platte River. Add additional inlets and piping network to more efficiently collect storm runoff.	City of Brighton	\$4,800,000	Storm water impact fees, monthly fees and MHFD.	High	2021	In progress. City has 50-percent design plans. Will be under contract for 100-percent design plans in 2020.
COB-6	2	Flood	Master Drainage Plan: Comprehensive master planning efforts are needed to provide guidance to the City. The City needs to hire an engineering consulting firm to complete a comprehensive master drainage plan.	City of Brighton, MHFD	\$25,000	Already available stormwater funding	Medium	End of 2020	In progress. Project budgeted for end of 2020.
COB-7	2	Flood	Second and Egbert Drainage Improvements: An undersized drainage pipe and lack of inlet do not provide appropriate drainage at this intersection. Design and construct drainage infrastructure to alleviate flooding at this intersection.	City of Brighton	\$250,000	Stormwater impact fees and monthly fees.	Low	2023	Continue – Not Completed.
COB-8	2	Flood	Third Creek and Brighton Road: The Third Creek Crossing under Brighton Road has become silted and is not adequately sized to pass 100-year flows. Complete engineering civil drawings and construct a 100-year crossing under Brighton Road.	City of Brighton	\$4,000,000	Storm water impact fees, monthly fees and MHFD.	Low	2025	Continue – Not Completed.
COB-9	2	Flood	South Brighton Outfall: The far southern portion of the City needs drainage improvements to convey storm flows to the South Platte River. Design and construct an outfall system to convey flows to South Platte River. Complete engineering civil drawings and construct the outfall system.	City of Brighton	\$20,000,000	Storm water impact fees, monthly fees and MHFD.	Medium	2025	Continue – Not Completed.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
COB-10	2	Flood	Recreation Center Tributary Outfall: Design and construct an outfall to serve the properties surrounding the intersection of Bridge and Telluride Street to prevent localized flooding of public roadways.	City of Brighton and MHFD	\$4,500,000	Storm water impact fees, monthly fees and MHFD.	High	2025	New in 2020.
City of Commerce City Mitigation Actions									
CC-1	2	Multi-Hazard: Winter Weather, Thunderstorm, Tornado, Flood, High Wind	Protect critical infrastructure from power outages with emergency generators: Retrofit public government buildings with back-up emergency generators. Commerce City has there three critical buildings that don't have emergency back-up power supply. In the event of a power outages, these critical buildings will not be operational. The buildings are two recreation centers that have been designated as emergency shelters and the municipal service center which maintains the city's fleet vehicles and equipment. In the past, natural disasters such as blizzards created major power outages; therefore the city could not use their designated emergency shelters facilities and also hinder fleet support services. The lack of capability of maintaining operational readiness of emergency shelters and fleet support services during power outages as the potential of creating hardships in providing emergency sheltering and fleet support services.	City of Commerce City Public Work / Commerce City OEM	\$500,000	HMA Grants with General Budget Funds	High	2021-2023	New in 2020. This project will help maintain operational readiness of critical infrastructure to perform mission essential functions such as emergency shelter operations and sustainment of Fleet services.
CC-2	2	Multi-Hazard: Winter Weather, Thunderstorm, Tornado, Flood, High Wind	Sustain mobile fleet by providing internal fuel storage dispensing capability: Install a permanent fuel storage/dispensing facility. Commerce City doesn't have internal fuel storage/dispensing capability to maintain the city's fleet vehicles. Currently the city uses public retail vendors such as gas stations to provide fuel for its vehicles. In the events of blizzards, major flooding and power outages public gas stations maybe be closed or out of fuel which will severely decrease the city's	City of Commerce City Public Work / Commerce City OEM	\$225,000	HMA Grants with General Budget Funds	High	2021-2022	New in 2020. This project will help maintain operational readiness and sustainment of city's fleet and equipment.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
			capability in maintaining their fleet and operational readiness. Two critical fleet sections are first responder vehicles and snowplow trucks which if these vehicles don't have fuel will create a public safety emergency.						
CC-3		Flood	Fairfax Park Drainage Reconstruction: The first phase of this project is a study through Mile High Flood District to study the drainage for the Core part of the City and to determine what infrastructure improvements are needed to better drain the Fairfax Park/Regional Detention Pond. The next phase of the project will be to replace the outfall pipe from Fairfax Park to the South Platter River. We anticipate that this project will be done over a three-year period. The majority of the storm water from the historic portion of Commerce City drains to Fairfax Park. Fairfax Park functions as a regional drainage facility and as a regional park for the City. The outfall system from Fairfax Park to the South Platte is undersized, the pond frequently overtops, and the flooding negatively affects the surrounding neighborhood. In addition, during large storm events it takes several days for Fairfax to drain. This affects the use of the site as a regional park.	City of Commerce City Public Work / Commerce City OEM	\$4,350,000	Mitigation grant funds, Mile High Flood District funds with general budget funds	High	2021-2024	New in 2020. Benefits: Maintain operational readiness of critical infrastructure to perform mission essential functions such as maintaining emergency routes during major flood events and sustainment of storm sewer infrastructure.
Denver Water Mitigation Actions									
DW-1	2	Flood	Slope armoring of reservoirs: Design and construct slope armoring to protect the west bank of Howe-Haller A, Howe-Haller B, and Hazeltine Reservoirs from erosion caused by flood events. This will protect the West Bank from damage, costly repairs, and regulatory disruption.	Denver Water	\$6,000,000	HMA grants and District Budget	Low	2023-2024	New in 2020. This project will protect the West Bank from damage, costly repairs, and regulatory disruption.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
DW-2	2	Flood	Henderson Creek Improvement. Design and construct an improved drainage channel downstream of Dunes Reservoir spillway. Dunes' spillway is designed to pass the Probable Maximum Flood (PMF). The capacity and performance of the downstream channel is currently unknown, and Dunes Reservoir has a 1 foot storage restriction until the downstream channel is improved.	Denver Water and MHFD/ County	\$48,840	HMA grants and District Budget	Low	2029	New in 2020. This project will allow Dunes Reservoir to be operated to its maximum capacity without restriction.
DW-3	2	Erosion	Downstream North Complex Reservoir Riprap. Design and construct a ribbon of riprap around the perimeter of Howe-Haller A, Howe-Haller B, and Hazeltine Reservoirs to protect the reservoir slopes from wave run-up erosion.	Denver Water	\$10,500,000	HMA grants and District Budget	Low	2025-2026	New in 2020. Protects the reservoir slopes from damage caused by wave erosion.
DW-4	2	Drought	Hazeltine Final Grading. Perform grading and construct a low-flow channel in Hazeltine Reservoir. Final grading is required prior to the construction of the Hazeltine Pump Station and operation of the reservoir.	Denver Water	\$3,900,000	HMA grants and District Budget	High	2020-2021	New in 2020. This project will allow operations of Hazeltine Reservoir, pump station construction, and ultimately, operation of the North Complex.
DW-5	2	Drought	North Complex Hazeltine Pump Station. Design and construct a pump station with up to 220 cfs capacity to operate the DRWSP North Complex (Dunes, Tanabe, Howe-Haller A, Howe-Haller B, and Hazeltine).	Denver Water	\$121,500,000	HMA grants and District Budget	High	2020-2026	New in 2020. This project will allow the North Complex to operate for water exchange and drought recovery.



6.5.1 Additional Actions Considered

Several additional mitigation actions were proposed at HMPC meetings 3 and 4 that did not move forward as actions in the updated mitigation action plan for various reasons. Some were deemed to duplicate an already existing action or ongoing program. Others were suggested by outside stakeholders but a lead department within the County or participating jurisdictions was not identified. These additional actions are captured in Table 6-3 and may be considered for inclusion in future planning efforts.

Table 6-3 Additional Mitigation Actions Identified and Considered in 2020 Mitigation Strategy

Proposed Mitigation Action	Hazard(s)
Develop an extreme heat plan	Extreme Heat
Update and update existing snow fences; increase snowplow equipment	Winter Weather
2019 Logan Court Drainage Basin Storm design	Flood
2019 E 152nd Ave and Imboden Drainage	Flood, Thunderstorm, Winter Storm
Broadway Intersection of 62nd Ave (minor system)	Flood, Thunderstorm, Winter Storm
Update building and construction codes. Review existing building codes and adopt latest version of IBC when published.	Multi-Hazard: Earthquake, strong winds, extreme temps, severe Thunderstorms, winter weathers



7 Plan Implementation and Maintenance

Implementation and maintenance of the plan is the final step of the 10-step planning process, and is critical to the overall success of hazard mitigation planning. This chapter provides an overview of the strategy for plan implementation and maintenance, and outlines the method and schedule for monitoring, evaluating, and updating the plan. The chapter also discusses incorporating the plan into existing planning mechanisms and how to ensure continued public involvement in mitigation planning.

7.1 Implementation

DMA Requirement §201.6(c)(4)(ii):

[The plan shall include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

Once adopted, the plan faces the truest test of its worth: implementation. While this plan contains many worthwhile actions, the participating jurisdictions will need to decide which action(s) to undertake first. Two factors will help with making that decision: the priority assigned the actions in the planning process and funding availability. Low or no-cost actions most easily demonstrate progress toward successful plan implementation.

Implementation will be accomplished by adhering to the schedules identified for each mitigation action in Table 6-2 in Section 6 Mitigation Strategy, and through pervasive efforts to network and highlight the multi-objective, win-win benefits of each project to the Adams County community and its stakeholders. These efforts include the routine actions of monitoring agendas, attending meetings, and promoting a safe, sustainable community.

Mitigation is most successful when it is incorporated into the day-to-day functions and priorities of government and development. Implementation will be accomplished through the routine actions of monitoring agendas, as well as attending meetings, and promoting a safe, sustainable community. Additional mitigation strategies could include consistent and ongoing enforcement of existing policies and vigilant review of programs for coordination and multi-objective opportunities.

Simultaneously to these efforts, it is important to maintain a constant monitoring of funding opportunities that can be leveraged to implement some of the costlier recommended actions. This will include creating and maintaining a bank of ideas on how to meet local match or participation requirements, should grants be pursued; this will help ensure participating jurisdictions are in a position to capitalize on the opportunity when funding becomes available. Funding opportunities to be monitored include special pre- and post-disaster funds, special district budgeted funds, state and federal earmarked funds, and other grant programs, including those that can serve or support multi-objective applications.

7.1.1 Implementation and Maintenance of the 2014 Plan

The 2014 Plan included a general process for implementation and maintenance of the comprehensive plan, which was generally followed. The 2014 Plan did not include details on how the hazard mitigation plan portions would be monitored and maintained in accordance with FEMA guidelines, and did not specify how often the Hazard Mitigation Planning Committee (HMPC) would meet. Implementation of the plan including the status of mitigation actions and success stories are captured in Chapter 6. In general, the County has made considerable progress on the implementation of the plan, and on decreasing the County's vulnerability to hazards.

7.1.2 Role of the Hazard Mitigation Planning Committee in Implementation and Maintenance

With adoption of this plan Adams County, Commerce City, the City of Brighton, the Town of Bennett, and Denver Water will be tasked with plan implementation and maintenance. This will be accomplished by keeping the HMPC active throughout the lifecycle of the plan. The participating jurisdictions agree to:

- Act as a forum for hazard mitigation issues,
- Disseminate hazard mitigation ideas and activities to all participants,
- Pursue the implementation of high-priority, low/no-cost recommended actions,
- Keep the concept of mitigation in the forefront of community decision making by identifying plan recommendations when other community goals, plans, and activities overlap, influence, or directly affect increased community vulnerability to disasters,
- Maintain a monitoring of multi-objective cost-share opportunities to help the community implement the plan's recommended actions for which no current funding exists,
- Monitor and assist in implementation and update of this plan,
- Report on plan progress and recommended changes to the County Commissioners, City/Town Councils, governing boards, and other partners, and
- Inform and solicit input from the public.

Other duties include reviewing and promoting mitigation proposals, considering stakeholder concerns about hazard mitigation, passing concerns on to appropriate entities, and posting relevant information on the County and municipal websites, in the local newspaper, and on social media. Other Adams County jurisdictions not participating in this plan may nevertheless be integrated into mitigation implementation where possible.

7.2 Plan Maintenance

DMA Requirement §201.6(c)(4)(i):

[The plan maintenance process shall include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

The Adams County Hazard Mitigation Plan is a living document that may be adjusted or updated as conditions change, actions progress, or new information becomes available. This section describes the method and schedule for monitoring, evaluating, and updating the Plan over the next five years.

7.2.1 Monitoring

Monitoring refers to tracking the implementation of the plan over time. Adams County OEM will be responsible for reaching out to lead and supporting agencies identified in the Mitigation Actions table for status on those mitigation actions. OEM will also coordinate with HMPC members at least annually in October to identify and track any significant changes in their agencies' mitigation efforts.

OEM will use the following process to track progress, note changes in vulnerabilities, and consider changes in priorities as a result of project implementation:

- A representative from the responsible entity identified in each mitigation action will be responsible for tracking and reporting to the HMPC when project status changes. The representative will provide input on whether the project as implemented meets the defined goals and objectives, and is likely to be successful in reducing vulnerabilities.
- If the project does not meet identified goals and objectives, the HMPC may select alternative projects for implementation.



- Projects that were not ranked high priority but were identified as potential mitigation strategies will be reviewed periodically to determine feasibility of future implementation.
- New mitigation projects identified will require an individual assigned to be responsible for defining the project scope, implementing the project, monitoring success of the project.
- Mitigation activities not identified as actions in this plan will also be tracked to ensure a comprehensive hazard mitigation program, and to assist with future updates.

7.2.2 Evaluating

Evaluating refers to assessing the effectiveness of the plan at achieving its stated purpose and goals. Evaluation of progress can be achieved by monitoring changes in vulnerabilities identified in the plan, such as:

- Decreased vulnerability because of implementing recommended actions,
- Increased vulnerability because of failed or ineffective mitigation actions, and/or
- Increased vulnerability because of new development (and/or annexation).

The HMPC will meet at least annually or following every declared disaster or significant hazard event to evaluate the implementation of the plan and consider any changes in priorities that may be warranted. Completed projects will be evaluated to determine how they have reduced vulnerability. Changes will be made to the plan to accommodate for projects that have failed or are not considered feasible after a review for their consistency with established criteria, the time frame, priorities, and/or funding resources.

7.2.3 Updating

The Adams County Hazard Mitigation Plan will be reviewed and revised at least once every five years in accordance with the DMA 2000 requirements and latest FEMA and DHSEM hazard mitigation planning guidance. Updates to this plan will:

- Consider changes in vulnerability due to project implementation,
- Document success stories where mitigation efforts have proven effective,
- Document areas where mitigation actions were not effective,
- Document any new hazards that may arise or were previously overlooked,
- Document hazard events and impacts that occurred within the five-year period,
- Incorporate new data or studies on hazards and risks,
- Incorporate new capabilities or changes in capabilities,
- Document continued public involvement,
- Document changes to the planning process, which may include new or additional stakeholder involvement,
- Incorporate growth and development-related changes to building inventories,
- Incorporate new project recommendations or changes in project prioritization,
- Include a public involvement process to receive public comment on the updated plan prior to submitting the updated plan to DHSEM/FEMA, and
- Include re-adoption by all participating entities following DHSEM/FEMA approval.

7.3 Integration Into Other Planning Mechanisms

Another important implementation mechanism that is highly effective and low-cost is the incorporation of the hazard mitigation plan recommendations and their underlying principles into other jurisdictional plans and mechanisms. Mitigation is most successful when it is incorporated into the day-to-day functions and priorities of government and development. The mitigation plan can be considered as the hub of a wheel



with spokes radiating out to other related planning mechanisms that will build from the information and recommendations contained herein. Properly implemented, the HMP should serve as one of the foundational documents of the jurisdictions' emergency management programs, since everything emergency management does should relate back in one way or another to the hazards the jurisdiction faces.

As stated in Section 7.1 of this Plan, implementation through existing plans and/or programs is recommended wherever possible. Based on this Plan's capability assessment and progress made on mitigation actions noted in Chapters 5 and 6, the participating jurisdictions continue to implement policies and programs to reduce losses to life and property from natural and human-caused hazards. The HMPC will be responsible for integrating the data, goals and objectives, and other elements of this Plan into other plans, as appropriate.

The following section provides some guidance on how Adams County will use the updated HMP to inform and improve other state plans, procedures, and programs.

7.3.1 Comprehensive Plans

The Adams County Comprehensive Plan was last updated in 2014, and the 2014 Hazard Mitigation Plan was integrated throughout that document. However, this complicated the plan update process because hazard mitigation plans are required to be updated every five years, whereas comprehensive plans are updated less frequently. Although this Plan update is being developed as a standalone plan, the County plans to adopt it as an annex to the Comprehensive Plan replacing the previous mitigation plan sections. The Comprehensive Plan itself is scheduled to be updated over the next 1-2 years. Adams County OEM will work with the County Planning Department to ensure that hazards data and mitigation goals and objectives inform the comprehensive plan update.

The City of Brighton Comprehensive Plan was last updated in 2016. Brighton OEM will work with the Town Planning Department to ensure that hazards data and mitigation goals and objectives inform the next comprehensive plan update.

The Commerce City Comprehensive Plan was last updated in 2010, and the City is beginning the process of updating their comprehensive plan beginning in 2020. Commerce City OEM will work with the City Planning Department to ensure that hazards data and mitigation goals and objectives inform the comprehensive plan update.

The Town of Bennett Comprehensive Plan was last updated in 2015. Bennett OEM will work with the Town Planning Department to ensure that hazards data and mitigation goals and objectives inform the next comprehensive plan update.

7.3.2 Threat and Hazard Identification and Risk Assessment (THIRA)

Beginning in 2020, Adams County will be required to complete a County-level Threat and Hazard Identification and Risk Assessment (THIRA). CPG201 "Threat and Hazard Identification and Risk Assessment (THIRA) establishes Step 1 as "Identify the Threats and Hazards of Concern" and lists HIRAs and HMPs as possible sources of threat/hazard information.

The criteria for selecting which Threats/Hazards are "of concern" are defined as:

- Factor #1: Likelihood of a Threat or Hazard Affecting a Community
- Factor #2: The Impacts of a Threat or Hazard



Each natural and human-caused hazard profiled in the HIRA (Section 4) contains a section analyzing the probability of future events, which provides a data-driven answer to Factor #1. Similarly, the vulnerability assessment section of the hazard profiles address what impacts can realistically be expected from both routine and extreme events of each hazard, which specifically addresses Factor #2.

Step 2 of CPG 201 is to “Give the Threats and Hazards Context” by creating a scenario for each hazard of concern, with specifics like time of day, area, and magnitude of the event, which are then used to establish capability targets for each of the 32 core capabilities. All the hazards profiled in the HIRA contain detailed information to ensure the hazard scenarios are plausible. For some hazards, such as flood or earthquake, detailed Hazus modeling runs have been done that can easily be incorporated as THIRA scenarios. Other hazards include details on the most extreme historical events on record that can quickly be updated to modern scenarios.

7.3.3 Response and Recovery Plans

The Adams County Emergency Operations and Recovery Plan (EORP) is currently being updated as the County Disaster Management Plan (DMP). The City of Brighton Emergency Operations Plan (EOP) was last updated in 2018 and is scheduled to be updated in 2020. The Commerce City EOP was last updated in 2011 and is scheduled to be updated in 2021. The Town of Bennett does not currently have an Emergency Operations Plan or Recovery Plan.

The Adams County EORP contains hazard-specific sections addressing information and concerns specific to each hazard type, which were written based on the data and analysis in the 2014 HIRA. The updated DMP will incorporate updated hazard information from this Plan update. Local EOPs will also incorporate information from this HMP into future updates. At a minimum, all high significance hazards identified in this Plan should be addressed in future EOP updates.

Similarly, the risk and vulnerability data in the HMP should help inform the post-disaster recovery planning process, especially by ensuring that the recovery elements of those plans fully take into account the dangers posed by other hazards, rather than focusing exclusively on the most recent hazard event. The HMP in turn will be revisited during recovery to help identify opportunities to incorporate mitigation in the recovery and rebuilding process, including maximizing FEMA PA and HMGP funding where applicable.

The FEMA publication Pre-Disaster Recovery Planning Guide for State Governments notes:

“...much of the research involved in the development of mitigation plans can be used to inform the pre-disaster recovery planning effort.

“The pre-disaster recovery planning process will benefit from and build upon hazard mitigation as:

- *The mitigation planning process identifies local hazards, risks, exposures, and vulnerabilities;*
- *Implementation of mitigation policies and strategies will reduce the likelihood or degree of disaster-related damage, decreasing demand on resources post-disaster;*
- *The process will identify potential solutions to future anticipated community problems; and*
- *Mitigation activities will increase public awareness of the need for disaster preparedness.*

“Pre-disaster recovery planning efforts also increase resilience by:

- *Establishing partnerships, organizational structures, communication resources, and access to resources that promote a more rapid and inclusive recovery process;*



- *Describing how hazard mitigation will underlie all considerations for reinvestment;*
- *Laying out a process for implementation of activities that will increase resilience; and*
- *Increasing awareness of resilience as an important consideration in all community activities.”*

Several other operational or functional response plans are also influenced by information contained in the HMP. These plans include but are not limited to:

- **Damage Assessment Plan:** A review of the vulnerability and estimated losses detailed in the hazard profiles can help identify what areas to initially prioritize following a hazard event. Similarly, a review of Section 4.2 Asset Summary can help identify what critical facilities need to be assessed following a hazard event.
- **Debris Management Plan:** Hazus runs conducted for earthquake and flood scenarios include an estimate of how many tons of debris would likely be generated by those scenarios. These estimates can be used as bounding limits for how much and what type of debris generation is likely to be required, as well as what areas are most likely to see heavy debris generations.
- **Evacuation & Sheltering Plan:** A review of the vulnerability and estimated losses detailed in the hazard profiles can help identify what areas are more likely to need evacuation in different hazard scenarios. The Community Profile in Section 2 can help identify not only how many people would potentially be impacted by disasters, but how many are likely to need assistance with transportation, special medical or sheltering needs, etc. This review can also help evaluate the impacts of multiple or cascading hazards, so that evacuees are not relocated into an area that puts them at risk from other hazards.

7.3.4 Continuity of Operations Plans (COOP)

All departments and agencies of Adams County government are required to maintain a Continuity Of Operations Plan (COOP) that details that agency’s critical functions and how they will protect those functions in order to continue to provide essential services during a disaster or interruption. By defining and describing the hazards facing the County, including frequency and severity, the HIRA informs agency COOP plans by giving context to what types of disasters or interruptions are most likely to occur. Critical facilities and assets located in hazard areas in Section 4.2 should be prioritized for COOP planning.

7.3.5 Training and Exercise Plans

Training on hazard mitigation principles and procedures should be included in the County’s training and exercise planning. Any training and exercise needs identified in the Capabilities Assessment (Section 5) and Mitigation Strategy (Section 5) should also be included in the County’s training and exercise planning.

7.3.6 Critical Infrastructure Protection Plan

Critical facilities and assets identified in Section 4.2 should be included in Critical Infrastructure Protection Planning (CIPP), with prioritization given to assets located in hazard-prone areas. Hazardous materials facilities in particular should be viewed both as critical assets in need of protection, and as potential hazards in their own right.

7.3.7 Community Preparedness Strategy

The County’s ongoing public education and outreach efforts should reflect the hazards and vulnerabilities described in this Plan. In addition to preparing for disasters, public education should include ways in



which the public can reduce their vulnerability to natural and human caused hazards. Furthermore, mitigation activities and success stories should be communicated to the public to show the benefits of effective mitigation planning.

7.3.8 Capital Improvements Plan

Many of the mitigation actions listed in the Mitigation Strategy (Section 6.4.2) came from the County's Capital Improvements Plan, and thus have already been identified for funding. Other high-dollar actions listed or identified in the future can also be added to the Capital Improvements Plan to ensure that hazard mitigation projects continue to receive funding. The prioritization of actions listed in Table 6-2, while not binding on capital improvement planning, can be used to inform the prioritization of those actions. Even projects for which the County intends to seek grant funding may also need to be addressed in the Capital Improvements Plan, given that most mitigation grants require significant local matching funds.

7.3.9 Drainage and Stormwater Plans

The Stormwater Quality Division in the Adams County Public Works Department has completed multiple drainage projects and plans, which are referenced in the mitigation strategy.

7.3.10 Sustainability Plan

Sustainability is a separate area of concern from hazard mitigation, but there are areas where the two fields overlap and influence one another positively or negatively.

Sustainability plans should be reviewed to identify where there may be synergy between sustainability and mitigation/resiliency. For example, sustainability efforts aimed at increasing Adams County's adaptability to climate change can also make the County more resilient to drought and severe weather. Increasing the percentage of food obtained locally could make the County more resilient to supply-chain interruptions or the impacts of disasters in other states. Adding more trees and grass to urban areas to reduce the heat island effect could help mitigate the impact of extreme weather events, as well as reducing flood risk by increasing the amount of permeable surfaces. This may help raise the priority of some sustainability efforts, as well as suggest complimentary mitigation efforts.

It is equally important to identify areas where sustainability efforts may work to reduce the County's resilience to hazards. For example, a sustainability goal of promoting use of public transit and reducing private car ownership could potentially make it harder to evacuate the public during a disaster if public transit is damaged and offline (as was observed during Hurricane Sandy). Similarly, reduced production of solid waste could lead to a reduction in the number of public resources such as dump trucks, which means that in a disaster those resources would not be available for debris removal and similar tasks. The intent of this review is not to say that sustainability goals should not be pursued, but rather to identify areas of concern that should be considered during implementation of these goals. For example, evacuation plans may need to be revised to reflect a larger percentage of families without cars; or contracts may need to be put in place to obtain additional dump trucks in a disaster.

As noted previously, the Sustainable Adams County 2030 Plan (dated 2015) helped inform the Capability Assessment (Chapter 5), and was included in the list of goals and objectives reviewed when developing the mitigation goals in Section 6-2. A potential follow-on action would be to review the goals and target actions contained in that plan for their potential impacts on hazard mitigation.



7.4 Continued Public Involvement

Continued public involvement is also imperative to the overall success of the Plan's implementation. This updated HMP will be posted on the County's website for reference, and can be used to help inform the County's ongoing public education and outreach program as described above in Section 7.3.7. Mitigation success stories, such as the completion of mitigation actions that reduce the community's vulnerability, can be shared with the public through forums like the Local Emergency Planning Committee (LEPC), public meetings, and through social media. This helps keep the concept of hazard mitigation alive, and helps show the public that their government officials are working to keep them safe.

The update process provides an opportunity to publicize success stories from the Plan implementation and seek additional public comment. When the HMPC reconvenes for the five-year plan update, they will coordinate with all stakeholders participating in the planning process—including those that joined the committee since the planning process began—to update and revise the plan. The plan maintenance and update process will include continued public and stakeholder involvement and input through participation in designated committee meetings, surveys, web postings, and press releases to local media.



A Town of Bennett

This Annex consolidates information specific to the Town of Bennett and goes into more detail about risk, capabilities, and mitigation strategies unique to that jurisdiction.

A.1 Mitigation Planning History and 2020 Update Process

The Town of Bennett is situated in both Adams and Arapahoe Counties. The Town of Bennett had previously participated in the 2015 Arapahoe County Hazard Mitigation Plan. The Town committed to participating in the 2020 Adams County plan update and met all participation requirements. The Town participated in the County multi-jurisdictional Hazard Mitigation Planning Committee (HMPC), and also brought together a Local Planning Team (LPT) to help collect data, identify and prioritize Town mitigation actions and implementation strategies, and review annex drafts.

Table A-1 Town of Bennett Local Planning Team

Department or Stakeholder	Title
Public Works	Safety Officer
Public Works	Utilities Supervisor
Community Works	Town Engineer
Community Development	Manager

More details on the planning process and participating jurisdictions, service districts and stakeholders can be found in Section 3 of the Base Plan, along with the public’s role during the 2020 update.

A.2 Community Profile

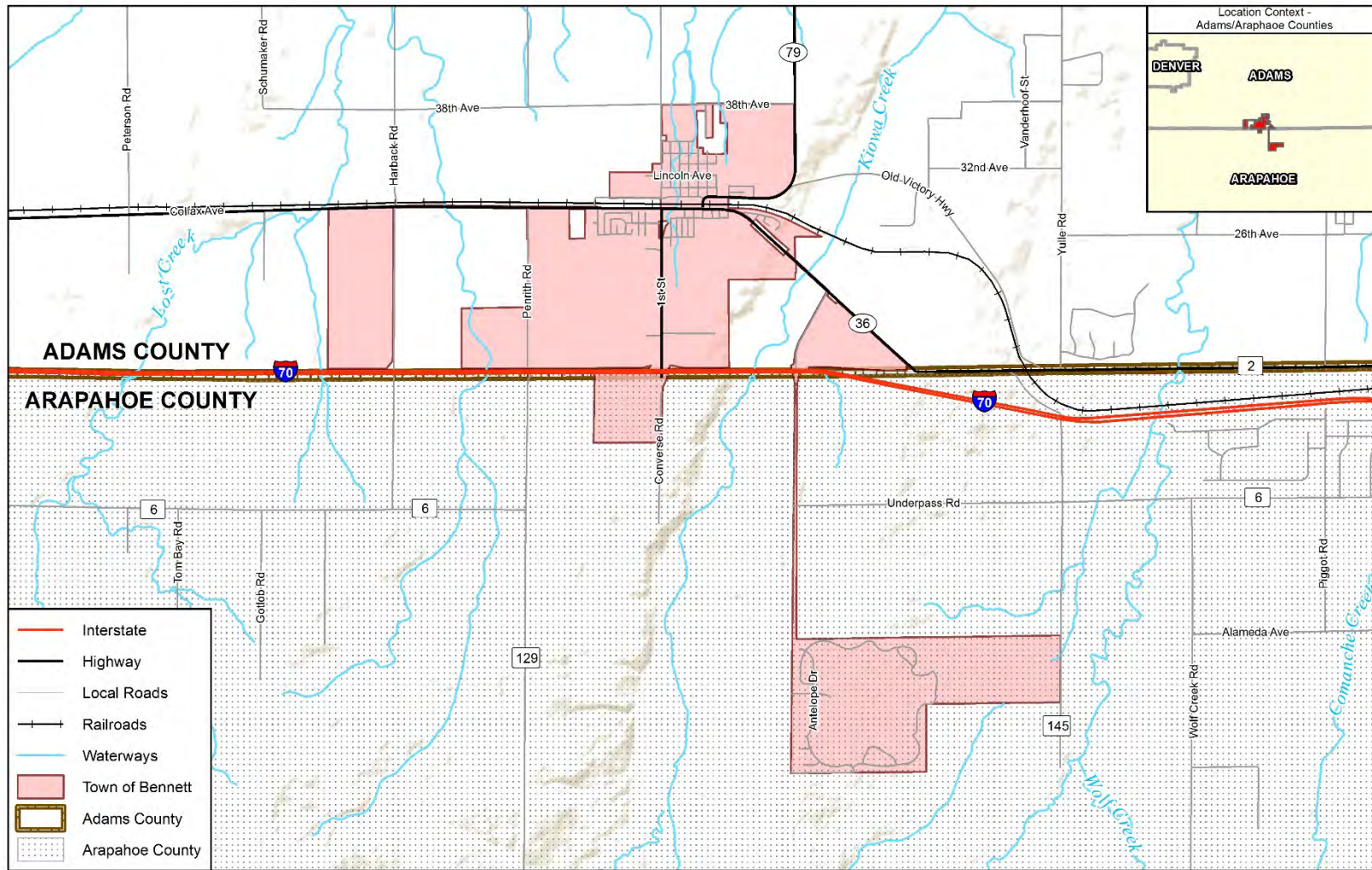
The Town of Bennett is a growing community in south-central Adams County. The Town is conveniently located 25 minutes from Downtown Denver, with the main part of Town located just north of I-70 at the intersection of State Highways 36 and 79.

The Town was incorporated in 1930 and has steadily grown into a thriving and self-sustaining community with an excellent public school system, abundant open spaces and trails, and a growing hub for goods and services along the I-70 corridor. The availability of land for development only 25 minutes from downtown Denver makes Bennett an inviting place to do business and a fast-growing community.

Figure A-1 shows a map of the Town of Bennett and its location within Adams and Arapahoe Counties.



Figure A-1 Map of the Town of Bennett



Map compiled 12/2019;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI World Terrain Map



A.2.1 Demographics

This section was updated using data from the U.S. Census Bureau's 2012-2017 American Community Survey (ACS) 5-Year Estimates, and the Colorado State Demography Office.

As of 2017, the U.S. Census Bureau estimated Bennett's total population at 2,291. This constitutes a 14.8% increase in population since 2012 (1,996), and a 274% increase since 1970 (613). Table A-2 below lists population estimates for the Town alongside those of Adams County and the State of Colorado, showing how they have changed in the last five years.

Table A-2 Bennett Population Change, 2012-2017

Jurisdiction	2012	2013	2014	2015	2016	2017	Growth 2012-2017
Bennett	1,996	1,900	1,898	1,915	2,097	2,291	15%
Adams County	442,996	452,030	461,558	471,206	479,977	487,850	10%
Colorado	5,042,853	5,119,329	5,197,580	5,278,906	5,359,295	5,436,519	8%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.

Table A-3 and Table A-4 show several key demographic and social characteristics of Bennett, how those characteristics have changed over the last five years, and how those characteristics compare to the rest of the County and the State.

Table A-3 Bennett Demographic and Social Characteristics, 2012-2017

Bennett	2012	2017	% Change
Population	1,996	2,291	14.8%
Median Age	36.2	41.0	13.3%
Total Housing Units	837	895	6.9%
Housing Occupancy Rate	90.9%	96.4%	6.1%
% of Housing Units with no Vehicles Available	2.40%	2.40%	0.0%
Median Home Value	\$150,800	\$181,300	20.2%
Unemployment	8.0%	5.2%	-35.0%
Mean Travel Time to Work (minutes)	33.5	28.8	-14.0%
Median Household Income	\$58,860	\$51,708	-12.2%
Per Capita Income	\$23,539	\$28,553	21.3%
% of Individuals Below Poverty Level	8.5%	12.1%	42.4%
% Without Health Insurance	15.1%	5.4%	-64.2%
# of Households	761	863	13.4%
Average Household Size	2.62	2.65	1.1%
% of Population Over 25 with High School Diploma	92.5%	92.2%	-0.3%
% of Population Over 25 with Bachelor's Degree or Higher	17.2%	18.0%	4.7%
% with Disability	13.9%	11.2%	-19.4%
% Speak English less than "Very Well"	1.7%	0.2%	-88.2%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.



Table A-4 Demographic and Social Characteristics Compared to the County and State

Demographic & Social Characteristics (as of 2017)	Bennett	County	Colorado
Median Age	41	33.4	36.5
Housing Occupancy Rate	96.4%	96.00%	89.80%
% of Housing Units with no Vehicles Available	2.4%	5.30%	5.30%
Median Home Value	\$181,300	\$241,900	\$286,100
Unemployment	5.2%	5.10%	5.20%
Mean Travel Time to Work (minutes)	28.8	29.2	25.2
Median Household Income	\$51,708	\$64,087	\$65,458
Per Capita Income	\$28,553	\$27,487	\$38,845
% of Individuals Below Poverty Level	12.1%	12.20%	11.50%
% Without Health Insurance	5.4%	13.40%	9.40%
Average Household Size	2.65	2.98	2.55
% of Population Over 25 with High School Diploma	92.2%	82.60%	91.10%
% of Population Over 25 with bachelor's degree or Higher	18.0%	23.10%	39.40%
% with Disability	11.2%	10.70%	10.60%
% Speak English less than "Very Well"	0.2%	11.50%	6.00%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.

Table A-5 and Figure A-2 break down the demographics of the Town by sex, race, and age.

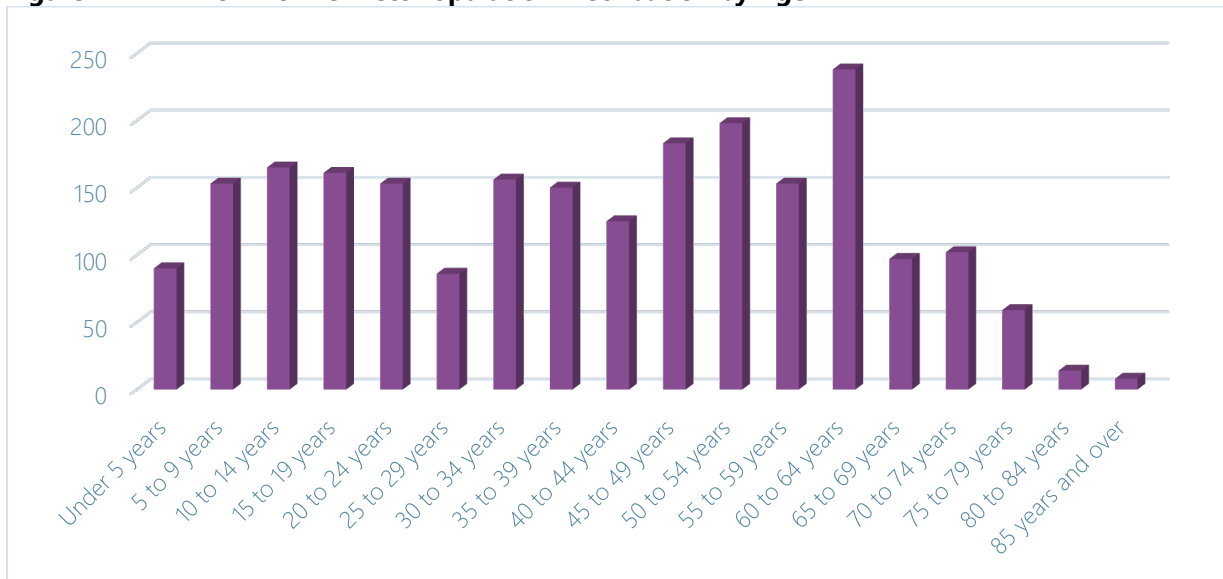
Table A-5 Demographics by Race and Sex

Bennett	Population	%
Total Population	2,291	
Male	1,247	54.4%
Female	1,044	45.6%
White, not Hispanic	1,948	85.0%
Hispanic or Latino	195	8.5%
Black	11	0.5%
Asian	18	0.8%
American Indian and Alaska Native	45	2.0%
Native Hawaiian and Other Pacific Islander	0	0.0%
Some other race	79	3.4%
Two or more races	100	4.4%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.



Figure A-2 Town of Bennett Population Distribution by Age



Source: U.S. Census Bureau American Community Survey, www.census.gov/.

A.2.2 Housing and Economy

Table A-6 presents 2017 American Community Survey estimates for types of housing units in the Town.

Table A-6 Types and Total Amounts of Housing Units in Bennett

Type of housing units	Total	Percentage
Total housing units	895	
1-unit detached	769	85.92%
1-unit attached	8	0.89%
2 units	3	0.34%
3 or 4 units	14	1.56%
5 to 9 units	18	2.01%
10 to 19 units	0	0.00%
20 or more units	41	4.58%
Mobile home	42	4.69%
Boat, RV, van, etc.	0	0.00%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.

As of 2017 the median home value in the Town was \$181,300, a 20% increase since 2012. That still remains well below the average for Adams County (\$241,900) and the State (\$286,100). Relatively low housing prices is a major factor driving Bennett’s growth. Bennett’s housing occupancy rate is 96.4%, well above the County and State averages.

The median age in Bennett is 41, almost 8 years older than the County average of 33.4 years.

The Town’s per capita income in 2017 was \$28,553, a 21.3% increase since 2012, showing that income has done a good job of keeping up with rising housing costs. The Town’s per capita income is above that of Adams County as a whole (\$27,487) but well below the average for Colorado (\$38,845). Figure A-3 shows the distribution of income in the Town



Figure A-3 Town of Bennett Income Distribution



Source: U.S. Census Bureau American Community Survey, www.census.gov/.

A.3 Hazard Identification and Profiles

The Town of Bennett’s Local Planning Team (LPT) identified the hazards that affect the community and summarized their geographic location, probability of future occurrence, potential magnitude or severity, and overall significance specific to the Town, as shown in Table A-7. There are no hazards that are unique to Bennett.

Table A-7 Town of Bennett Hazard Significance

Hazard	Geographic Location	Probability of Future Occurrence	Magnitude/Severity (Extent)	Overall Significance
Thunderstorms	Extensive	Highly Likely	Limited	High
Tornado/Damaging Wind	Extensive	Highly Likely	Catastrophic	High
Winter Weather	Extensive	Highly Likely	Critical	High
Flood	Extensive	Likely	Catastrophic	High
Drought	Extensive	Likely	Critical	High
Terrorism/Active Shooter	Extensive	Occasional	Critical	High
Cyber Incident	Extensive	Likely	Critical	High
Dam Failure/Incident	Limited	Unlikely	Critical	Medium
Hazardous Materials Incident	Significant	Likely	Limited	Medium
Earthquake	Limited	Occasional	Limited	Low
Subsidence	Limited	Unlikely	Limited	Low
Wildfire	Limited	Highly Likely	Negligible	Low



<p>Geographic Location Limited: Less than 10% of planning area Significant: 10-50% of planning area Extensive: 50-100% of planning area</p> <p>Probability of Future Occurrences Highly Likely: Near 100% chance of occurrence in next year or happens every year. Likely: Between 10 and 100% chance of occurrence in next year or has a recurrence interval of 10 years or less. Occasional: Between 1 and 10% chance of occurrence in the next year or has a recurrence interval of 11 to 100 years. Unlikely: Less than 1% chance of occurrence in next 100 years or has a recurrence interval of greater than every 100 years.</p>	<p>Magnitude/Severity (Extent) Catastrophic—More than 50% of property severely damaged; shutdown of facilities for more than 30 days; and/or multiple deaths Critical—25-50% of property severely damaged; shutdown of facilities for at least two weeks; and/or injuries and/or illnesses result in permanent disability Limited—10-25% of property severely damaged; shutdown of facilities for more than a week; and/or injuries/illnesses treatable do not result in permanent disability Negligible—Less than 10% of property severely damaged, shutdown of facilities and services for less than 24 hours; and/or injuries/illnesses treatable with first aid</p> <p>Significance Low: minimal potential impact Medium: moderate potential impact High: widespread potential impact</p>
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Information on past events can be found in in the hazard profiles in Section 4.3 of the Base Plan.

A.4 Vulnerability Assessment

The intent of this section is to assess Bennett’s vulnerability separate from that of the County as a whole, which has already been assessed in Section 4.3 Vulnerability Assessment of the Base Plan. For many of the hazards listed in Table A-7, hazard and vulnerability do not vary significantly from the County overall, or vulnerability data is difficult to compile or estimate below county level. As a result, only cyber incident, dam failure/incident, drought, flood, hazardous materials incident, terrorism/active shooter, and wildfire are profiled separately in this annex. For the purpose of this plan, only the parts of the Town that lie specifically within Adams County have been assessed for vulnerability data.

For more information about how hazards affect Adams County, see Section 4 (Risk Assessment) of the Base Plan.

A.4.1 Community Asset Inventory

Table A-8 shows the total number of improved parcels, properties, and their improvement and content values for the Town of Bennett. Only those parcels with improvement values greater than \$0 or those classified as “exempt” were counted here and in the vulnerability assessments to follow. Counts and values are based on the latest County assessor’s data (as of September 2019), which was provided in GIS format. Content values were estimated as a percent of the improvement value here and under the hazard vulnerability assessment based on standard FEMA Hazus methodologies: 100% of the improvement value for commercial structures, and 50% for residential structures and exempt or vacant parcels.



Table A-8 Town of Bennett Property Exposure

Parcel Type	Improved Parcels	Improved Value	Content Value	Total Value
Agricultural	1	\$1,490	\$1,490	\$2,980
Commercial	44	\$6,873,290	\$6,873,290	\$13,746,580
Exempt	90	\$6,040,350	\$3,020,175	\$9,060,525
Industrial	2	\$106,200	\$159,300	\$265,500
Residential	711	\$10,709,650	\$5,354,825	\$16,064,475
State Assessed	3	\$0	\$0	\$0
TOTAL	851	\$23,730,980	\$15,409,080	\$39,140,060

Source: Adams County GIS/Assessor's Office, Wood analysis.

Table A-9 lists summary information about the 25 critical facilities and other community assets identified by the Town's LPT as important to protect or that provide critical services in the event of a disaster. These facilities are mapped in Figure A-4. For additional information on the definitions behind each critical facility category, source, and other details refer to Section 4.3.2 of the Base Plan.

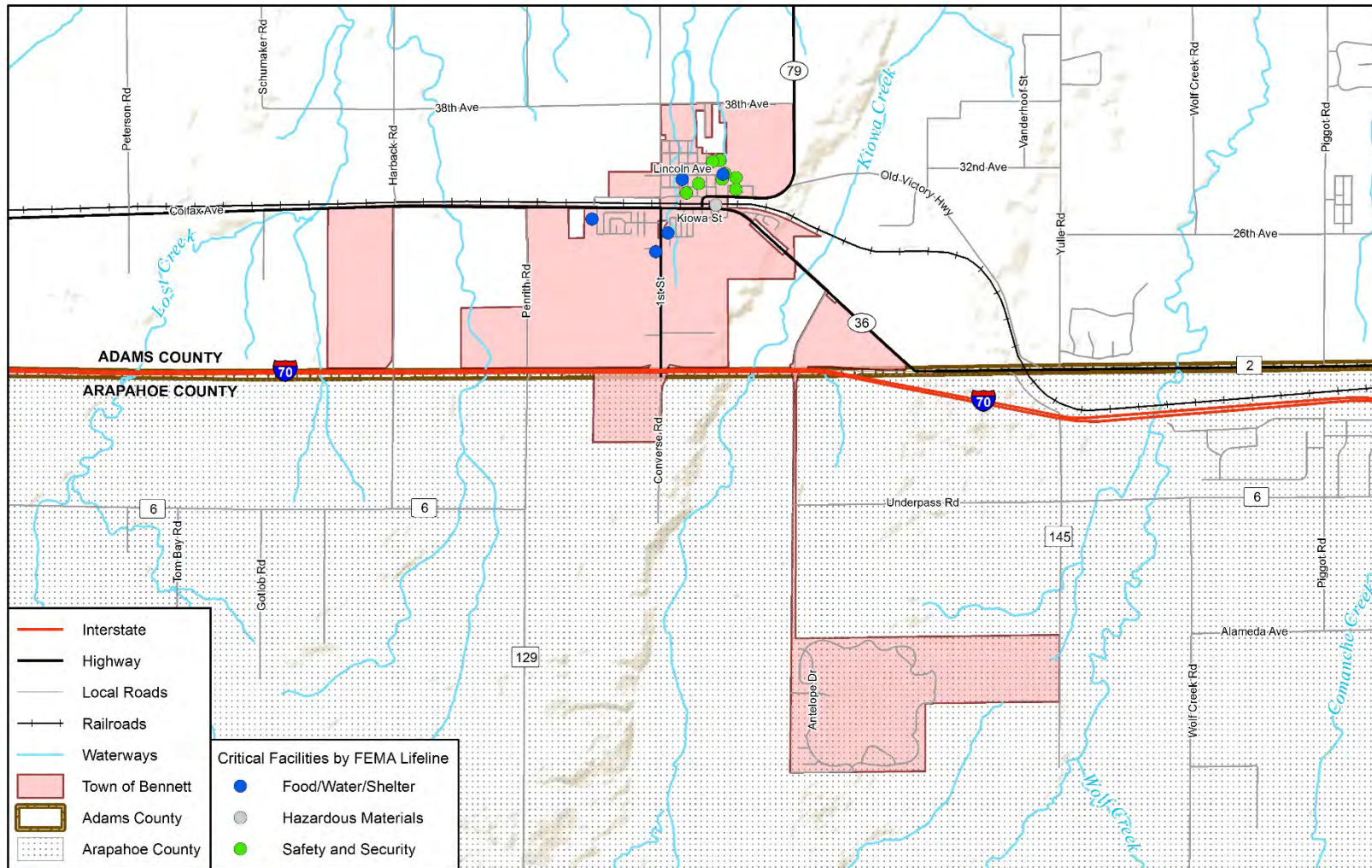
Table A-9 Town of Bennett Critical Facilities and Infrastructure Summary

FEMA Lifeline	Critical Facility Type	Total
Food/Water/Shelter	Emergency Shelters	5
	Water Storage Tank	1
	Well House	5
	WWTP	1
Hazardous Material	HazMat EO Tier II Sites	1
Safety and Security	Fire Stations	2
	Government Facilities	5
	Schools	5
TOTAL		25

Source: Adams County GIS/Assessor's Office, Wood analysis.



Figure A-4 Town of Bennett Critical Facilities and Infrastructure



Map compiled 1/2020;
intended for planning purposes only.
Data Source: Adams County GIS, CO
Information Marketplace, HIFLD,
CO BLM, ESRI World Terrain Map

0 2 4 Miles



A.4.2 Cyber Incident Vulnerability

Overall, the LPT felt Bennett's risk from cyber incidents is **High**. Internet capability in the Town of Bennett area is not high quality. Additionally, several Town employees have the capability to work from home and in the field accessing the Town's server from those remote areas.

A.4.3 Dam Failure/Incident Vulnerability

As can be seen in Figure 4-5 in the Base Plan, there are no known dam inundation extents in the Town of Bennett. With no people, property, or critical facilities threatened, the overall risk to the Town is **Low**.

A.4.4 Drought Vulnerability

Overall, the LPT felt Bennett's risk from drought is **High**. The Town of Bennett is surrounded by a significant amount of farmland. Numerous businesses located in the Town of Bennett would be affected if the farmers were in a drought situation as they deliver grain to the elevator, purchase fuel from gas stations, shop at local stores, etc.

A.4.5 Flood Vulnerability

The Town of Bennett spans three major stormwater drainage basins, Lost Creek (aka Lost Sand Creek), Kiowa Creek, and Wolf Creek, from west to east. These drainageways typically only carry flows as a result of rainfall or snowmelt. Figure A-5 shows the mapped floodplains in the latest version of FEMA's National Flood Hazard Layer (NFHL). The NFHL maps both the 1% annual chance (100-year) and the 0.2% annual chance (500-year) flood events, as described in more detail in Section 4.3.5 of the Base Plan.

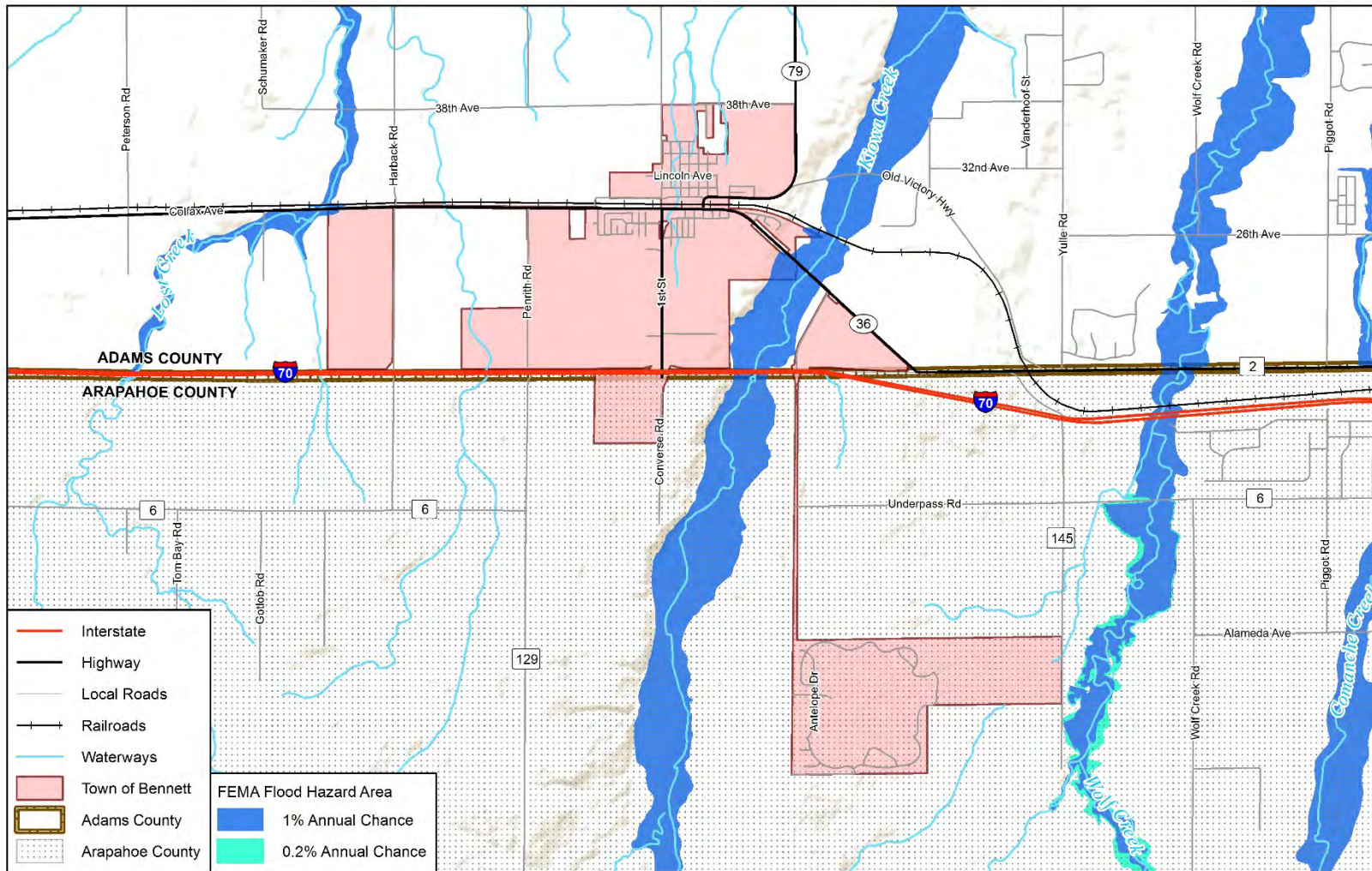
According to the NFHL, there are no improved or exempt parcels located in the 100-year and 500-year floodplains in the Town of Bennett. There are similarly no critical facilities in the floodplain. Despite this, historically flooding has had significant impacts to roads and related infrastructure in the Bennett area, leading to road closures and transportation impacts. Based on this, the Town LPT determined that Bennett's risk from flooding is **High**.

National Flood Insurance Program Policy Analysis

Bennett has participated in the National Flood Insurance Program (NFIP) since September 12, 2014. NFIP insurance data shows that as of September 2019, there were no flood insurance policies in force in the Town. There have been no historical claims for flood losses, and therefore no repetitive or severe repetitive loss structures as defined by the NFIP as of September 2019. The Town of Bennett does not participate in the Community Rating System (CRS) program.



Figure A-5 FEMA Special Flood Hazard Areas in the Town of Bennett



Map compiled 1/2020;
intended for planning purposes only.
Data Source: Adams County GIS, CO
Information Marketplace, FEMA NFHL,
CO BLM, ESRI World Terrain Map

0 2 4 Miles



A.4.6 Hazardous Materials Incident

Overall, the LPT felt Bennett's risk from hazardous materials incidents is **Medium**, the same as the County as a whole.

The National Response Center (NRC) records 12 hazardous materials incidents in or near the Town of Bennett from 1990 through 2018; as noted in Section 5.3.13 of the Base Plan, this likely excludes a large number of unreported minor spills. This constitutes 1.4% of the 832 hazardous materials incidents reported countywide during the same time frame and averages out to roughly one incident every 2.4 years. As noted in Section 5.3.13, only around 6% of reported hazardous materials incidents result in injuries, fatalities, or evacuations.

The rail line running through Bennett is also of concern to the LPT. If a train accident involving hazardous materials were to occur in or near the Town, it could have a significant impact on life and property due to the Town's limited response capacity.

As of January 2020, there is one EPA Tier II facility and no Risk Management Plan (RMP) facilities located in the Town.

A.4.7 Terrorism/Active Shooter Vulnerability

Overall, the LPT felt Bennett's risk from terrorism/active shooter incidents is **High**. Despite its recent growth, the Town of Bennett is still considered to be in a rural setting. Currently, the Town of Bennett does not have its own law enforcement department and has a contract with Adams/Arapahoe County Sheriff's Department for law enforcement coverage.

A.4.8 Wildfire Vulnerability

Overall, the LPT felt Bennett's risk from wildfires is Low, the same as the County as a whole.

Figure A-6 shows the Wildland Urban Interface (WUI) areas in and near the Town of Bennett by medium and low density; the Town does not have any high density WUI areas.

Table A-10 calculates the people, property, and critical facilities located in the low and medium density WUI areas. There are only 3 improved parcels in the Town of Bennett in WUI zones, which have no improved values or population. There are similarly no critical facilities in WUI zones.

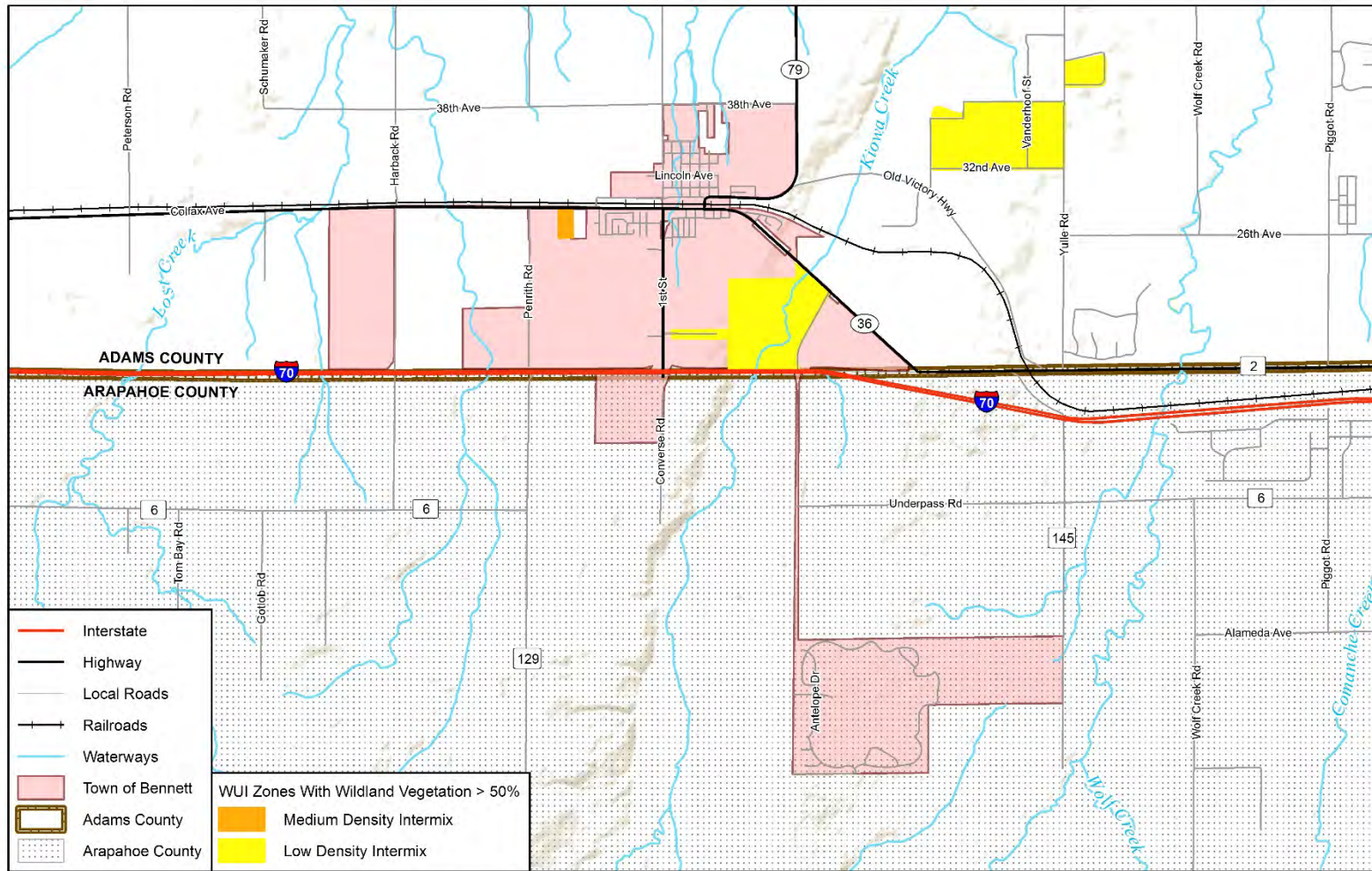
Table A-10 Town of Bennett Parcels and Exposure in Wildland Urban Interface (WUI) Zones

WUI Intermix Zone	Parcel Type	Total Improved Parcels	Improved Value	Content Value	Total Value	Population
Low Density	Exempt	1	--	--	--	--
Medium Density	Residential	2	--	--	--	--
TOTAL		3	--	--	--	--

Source: Adams County GIS/Assessor's Office, Wood analysis.



Figure A-6 Wildland Urban Interface (WUI) Intermix Areas in the Town of Bennett



Map compiled 1/2020;
intended for planning purposes only.
Data Source: Adams County GIS, CO
Information Marketplace, CO BLM,
ESRI World Terrain Map, Adams County
2012 Comprehensive Plan



A.4.9 Growth and Development Trends

The Town's Capital Asset Inventory & Master Plan (C.A.I.M.P) is a dynamic Master Planning framework embedded in GIS technology to capture, store, manipulate, analyze, manage and present a variety of spatial and geographical data in one accessible location. This new system, especially when it comes to local government planning and monitoring, will be an essential part of asset management for the Town for years to come. Beginning in early 2019, Town staff, engineers, and consultants focused efforts on providing a complete review of all the Town's assets covering utilities, roads, buildings, parks and planning cases. Through this process, a robust and thorough inventory was provided to paint a clear picture for planning for the future. Land use and future developments were analyzed to show when and where the developments will occur along with the impacts on the Town's infrastructure and facilities. The C.A.I.M.P. project looks at the development in the Town of over a three, five and 10-year time span.

A.5 Capability Assessment

This section profiles the programs and policies currently in use by the Town of Bennett to reduce hazard impacts or that could be used to implement hazard mitigation activities. The capabilities assessment is divided into five sections: planning and regulatory mitigation capabilities, administrative and technical mitigation capabilities, fiscal mitigation capabilities, past and ongoing mitigation outreach, and other mitigation efforts.

A.5.1 Planning and Regulatory Mitigation Capabilities

Table A-11 lists planning and land management tools typically used by local jurisdictions to implement hazard mitigation activities and indicates those that are in place in Bennett.

Table A-11 Town of Bennett Planning and Regulatory Mitigation Capabilities

Regulatory Tool (ordinance, code, plans)	Yes/No	Comments
Comprehensive Plan	Yes	2015 Town of Bennett Comprehensive Plan
Zoning ordinance	Yes	2014 Land Use Code Update
Subdivision ordinance	Yes	Located in Chapter 16, Article IV of the Municipal Code
Growth management ordinance	No	
Floodplain ordinance	Yes	Chapter 16, Article VII, of the Municipal Code
Building codes	Yes	Currently on 2012 IBC, working on adopting the 2018 IBC by 7/1/2020
Fire department ISO rating	Yes	ISO rating is 3 (anywhere w/fire hydrants)
Erosion or sediment control program	No	
Storm water management program	No	The Town currently uses the State of Colorado guidelines
Site plan review requirements	Yes	The Town currently uses the State of Colorado guidelines
Capital improvement plan	Yes	Referenced in the Town's Applicants Guide
Economic development plan	Yes	Referenced in Capital Asset Inventory & Master Plan (CAIMP)
Local emergency operations plan	No	
Other special plans	No	
Flood insurance study or other engineering study for streams	No	
Elevation certificates (for floodplain development)	No	



Several key planning and regulatory tools used by Bennett are described below.

2015 Town of Bennett Comprehensive Plan

The Town's Comprehensive Plan, adopted in 2015, states:

The Town of Bennett, Colorado, is uniquely positioned to capture the next wave of growth within the Denver metropolitan area. Bennett's close proximity to Denver International Airport (DIA), the Front Range Airport, I-70, E-470, and the Union Pacific Railroad are all factors that will have a direct impact on the future growth of the Town; an incorporated area that currently totals 4.3 square miles.

Bennett's community leaders are visionary and willing to take bold steps to secure the Town's future. As a first step in implementing recommendations from a study completed in 2011 for the I-70 Regional Economic Advancement Partnership (REAP), the Town has identified a 91.4 square mile "Area of Planning Interest". Bennett's growth intentions are reflected by its objective to introduce a renewable water supply into its Area of Planning Interest. The prospect for growth associated with a renewable water supply is a fundamental tenet of this comprehensive plan.

2017 Source Water Protection Plan

In 2017, the Town of Bennett worked collaboratively with area stakeholders to develop a Source Water Protection Plan for their drinking water sources: groundwater wells in the Denver Basin Aquifer system. The plan identifies the area in need of protection, potential sources of contamination, and management approaches to reduce the risk of contaminants entering the source waters.

2014 Land Use Code Update

- Consolidated the industrial zoning districts into one industrial zoning category
- Revised the R-3 zoning district to allow for higher density and increased the maximum building height
- Created three new overlay zone districts within the downtown area
- Residential mixed use district
- Commercial mixed use district
- Main Street District
- Provided additional flexibility to the Zoning Administrator to administratively approve PD amendments

2010 Downtown Planning Study

- Identified a realignment for SH79
- Developed a Downtown Mainstreet Concept Plan
- Created Downtown Design Guidelines
- Developed a pedestrian friendly street scape concept

2009 Parks, Trails, and Open Space Master Plan

- Created a regional open space and trail system that connected the historic town center to outlying subdivisions

A.5.2 Administrative and Technical Mitigation Capabilities

Table A-12 identifies the personnel responsible for activities related to mitigation and loss prevention in Bennett.



Table A-12 Town of Bennett Administrative and Technical Mitigation Capabilities

Personnel Resources	Yes/No	Department/Position
Planner/engineer with knowledge of land development/land management practices	Yes	Town has an engineer on contract
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	Town has an engineer on contract
Planner/engineer/scientist with an understanding of natural hazards	Yes	Town has an engineer on contract
Personnel skilled in GIS	No	The Town uses North Line for GIS matters
Full time building official	Yes	
Floodplain manager	No	
Emergency manager	No	
Grant writer	Yes	Grant writing is done thru the Finance Department
GIS Data Resources (Hazard areas, critical facilities, land use, building footprints, etc.)	Yes	North Line provides the Town with these resources
Warning Systems/Services (Reverse 911, cable override, outdoor warning signals)	Yes	Tornado siren
Other Key personnel	Yes	Public Works Dept., Code Enforcement/Animal Control

A.5.3 Fiscal Mitigation Capabilities

Table A-13 identifies financial tools or resources that Bennett could potentially use to help fund mitigation activities.

Table A-13 Town of Bennett Fiscal Mitigation Capabilities

Financial Resources	Accessible / Eligible to Use	Has Been Used in the Past	Comments
Community Development Block Grant	Yes	Yes	Funds have been used to donate PPE to business' for COVID-19 mitigation relief
Capital Improvements Project funding	Yes	Yes	Highway Safety Improvement Funds used for repair of culverts and drainage on Kiowa-Bennett Road
Authority to levy taxes for specific purposes	Yes	No	
Fees for water, sewer, gas, or electric services	Yes	No	Fees are earmarked for the new mechanical wastewater treatment facility
Impact fees for new development	Yes	No	
Incur debt through general obligation bonds	Yes	No	
Incur debt through special tax bonds	Yes	Yes	Road improvements
Incur debt through private activities	No	No	
Withhold spending in hazard prone areas	Yes	No	

Some key planning and regulatory tools used by Bennett are described below.



2014 Adoption of Model Service Plan

- Allows for the creation of financing mechanisms, including provisions for single & multiple districts
- Metropolitan Districts in Colorado are viewed as an excellent vehicle for financing public improvements and increasing savings to developers and landowners

A.5.4 Past and Ongoing Mitigation Efforts

Elevated Water Storage Tank

Bennett's tallest landmark, the new elevated water storage tank, went into commission in October 2017. The half million gallon elevated water storage tank stands 197 ft. high and significantly improves the availability, reliability, and water quality of the Town of Bennett's water supply. The tank reduces the Town's risk of water supply outages and also improves reliable water pressure to our residents and businesses, and upgraded fire flows for the Bennett Fire Protection District.

New Wastewater Treatment Facility

The Town of Bennett celebrate the opening of a Water Resource Recovery Facility on May 1, 2019. The Town was able to replace the old aerated lagoon wastewater plant with this state-of-the-art modern mechanical treatment facility. This allows the Town to meet current requirements and anticipated future requirements for treated effluent discharge permit.

Public Education and Outreach

The Town holds several Engage, Shape & Building public meetings that show the public the new infrastructure plans as they come along. The Town does not have any local citizen groups that communicate hazard risks. The Town does not currently participate in Firewise or StormReady.

A.5.5 Opportunities for Enhancement

Based on the capability assessment, Bennett has several existing mechanisms in place that already help to mitigate hazards. There are also opportunities for the Town to expand or improve on these policies and programs to further protect the community. Future improvements may include providing training for staff members related to hazards or hazard mitigation grant funding in partnership with the County and DHSEM. Additional training opportunities will help to inform Town staff and Town Council on how best to integrate hazard information and mitigation projects into the Town policies and ongoing duties of the Town. Continuing to train Town staff on mitigation and the hazards that pose a risk to the Town will lead to more informed staff members who can better communicate this information to the public.

A.6 Mitigation Goals and Objectives

The Town of Bennett has adopted the hazard mitigation goals and objectives developed by the HMPC and described in Section 6.2 of the Base Plan.

A.7 Mitigation Actions

The local planning team identified and prioritized the following mitigation actions for the Town of Bennett based on the risk assessment. Information on how each action will be implemented and administered, such as ideas for implementation, responsible agency, potential funding, estimated cost, and timeline also are included. These actions are also captured in Table 6-2 in the Base Plan.



Table A-14 Town of Bennett 2020 Mitigation Action Plan

ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
TOB -1	1,2	Multi-Hazard: Thunderstorm, Tornado, Winter Weather, Flood, Dam Failure, Hazardous Materials, Earthquake, Subsidence, Wildfire, Terrorism, Cyber	Develop hazard mitigation brochure: Develop a brochure to be made available to the public in hard copy and placed on the Town's website that will provide public information on how to prepare for hazard events as well as mitigate vulnerabilities on their property.	Town of Bennett - Safety Officer and Community Development	Little to no cost	Staff Time/ Dept. Budget	Medium	2020	New in 2020.
TOB -2*	1,2,4	Flood	Participation in and adoption of MHFD master plans to identify stormwater drainage/flood hazards and mitigation options.	Town of Bennett - Public Works, MHFD	Little to no cost	Staff Time/ Dept. Budget	Medium	2022	In progress. Town uses District's criteria and have adopted the standards. Not adoption ready
TOB -3*	2	Flood	Develop Stormwater Drainage Master Plan	Town of Bennett - Public Works	\$10,000 - \$100,000	HMA grants; Staff Time/ Dept. Budget; MHFD	Medium	2022	In progress. Draft version was created but funding fell short before finalization. Currently pursuing new funding.
TOB -4*	2,3	Wildfire	Wildfire Mitigation Planning: Mitigation plan will be incorporated into Code of adoption of specific ordinance by the Town of Bennett	Bennett FPD	\$10,000-\$100,000	HMA Grants	High	2025	Continue – Not Completed.
TOB -5	2	Hazardous Materials	Stoplight and intersection infrastructure at Marketplace Drive and Hwy 79. This is a high traffic intersection right off I-70 with multiple businesses including King Soopers, Love's Travel	Town of Bennett - Public Works	\$1.2M	CIP Budget	Medium	2022	New in 2020.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
			w/truck stop, McDonalds, and a Tractor Supply. Redesign and installation of a stoplight area will assist with traffic safety for commercial vehicles as well as residential vehicles.						
TOB-6	2	Flood, Winter Weather	Replacement of culverts of on Kiowa-Bennett Road and Hwy 36. When Bennett experiences heavy rains and/or snowfall in this area, the Kiowa-Bennett road has experienced flooding and erosion issues. Replacement of culverts is expected to reduce and/or eliminate the flooding and erosion.	Town of Bennett - Public Works	\$500,000	CIP Budget	High	2021	New in 2020.
TOB-7	2	Flood	Design of expansion for wastewater treatment facility. With the growth that the Town of Bennett is experiencing, it is necessary to begin the process for design of expansion of this facility to accommodate the growth. The site also experienced stormwater flooding in 2019.	Town of Bennett - Public Works	\$350,000	CIP Budget	High	2021	New in 2020.



A.7.1 Continued Compliance with the National Flood Insurance Program

Recognizing the importance of the National Flood Insurance Program (NFIP) in mitigating flood losses, the Town of Bennett will place an emphasis on continued compliance with the NFIP. As an NFIP participant, the Town has and will continue to make every effort to remain in good standing with NFIP. This includes continuing to comply with the NFIP's standards for updating and adopting floodplain maps and maintaining and updating the floodplain zoning ordinance as well as review of any potential development in special flood hazard areas.

A.8 Implementation and Maintenance

This section provides an overview of the Town's strategy for plan implementation and maintenance, and outlines the method and schedule for monitoring, evaluating, and updating the plan. The section also discusses incorporating the plan into existing planning mechanisms and how to ensure continued public involvement in mitigation planning.

A.8.1 Incorporation into Existing Planning Mechanisms

The information contained within this plan, including results from the Vulnerability Assessment, and the Mitigation Strategy will be used by the Town to help inform updates and the development of local plans, programs and policies, as described in Section 7.3 of the Base Plan. The following mitigation actions listed in Table A-14 specifically address development of local plans that will be informed by the information in this HMP:

- TOB-2: Participation in and adoption of MHFD master plans to identify stormwater drainage/flood hazards and mitigation options.
- TOB-3: Develop Stormwater Drainage Master Plan
- TOB-4: Wildfire Mitigation Planning: Mitigation plan will be incorporated into Code of adoption of specific ordinance by the Town of Bennett

The Town of Bennett was not included in the 2014 Adams County Hazard Mitigation Plan, and as such did not incorporate elements of that plan into other planning mechanisms.

A.8.2 Monitoring, Evaluation and Updating the Plan

The Town Safety Officer, located within the Public Works Department, will be responsible for monitoring, evaluating, and updating this plan using the process outlined in Section 7 of the Base Plan. The Town will continue to involve the public in mitigation, as described in Section 7.4 of the Base Plan. The Town Safety Officer will be responsible for representing the Town on the Adams County HMPC, and for coordination with Town staff and departments during plan updates. The Town will review this annex regularly and will update it every five years in accordance with the Disaster Mitigation Act Requirements.



B City of Brighton

This Annex consolidates information specific to the City of Brighton and goes into more detail about risk, capabilities, and mitigation strategies unique to that jurisdiction.

B.1 Mitigation Planning History and 2020 Update Process

The City of Brighton is situated in both Adams and Weld Counties. The City of Brighton had previously participated in the 2016 Weld County Hazard Mitigation Plan. The City committed to participating in the 2020 Adams County plan update and met all participation requirements. The City participated in the County’s multi-jurisdictional Hazard Mitigation Planning Committee (HMPC), and also brought together a Local Planning Team (LPT) to help collect data, identify and prioritize City mitigation actions and implementation strategies, and review annex drafts.

Table B-1 City of Brighton Local Planning Team

Department or Stakeholder	Title
Office of Emergency Management	Emergency Manager
Finance Department	Finance Director
Utilities Department	Stormwater & Environmental Division
Community Development	Community Development Director

More details on the planning process and participating jurisdictions, service districts and stakeholders can be found in Section 3 of the Base Plan, along with the public’s role during the 2020 update.

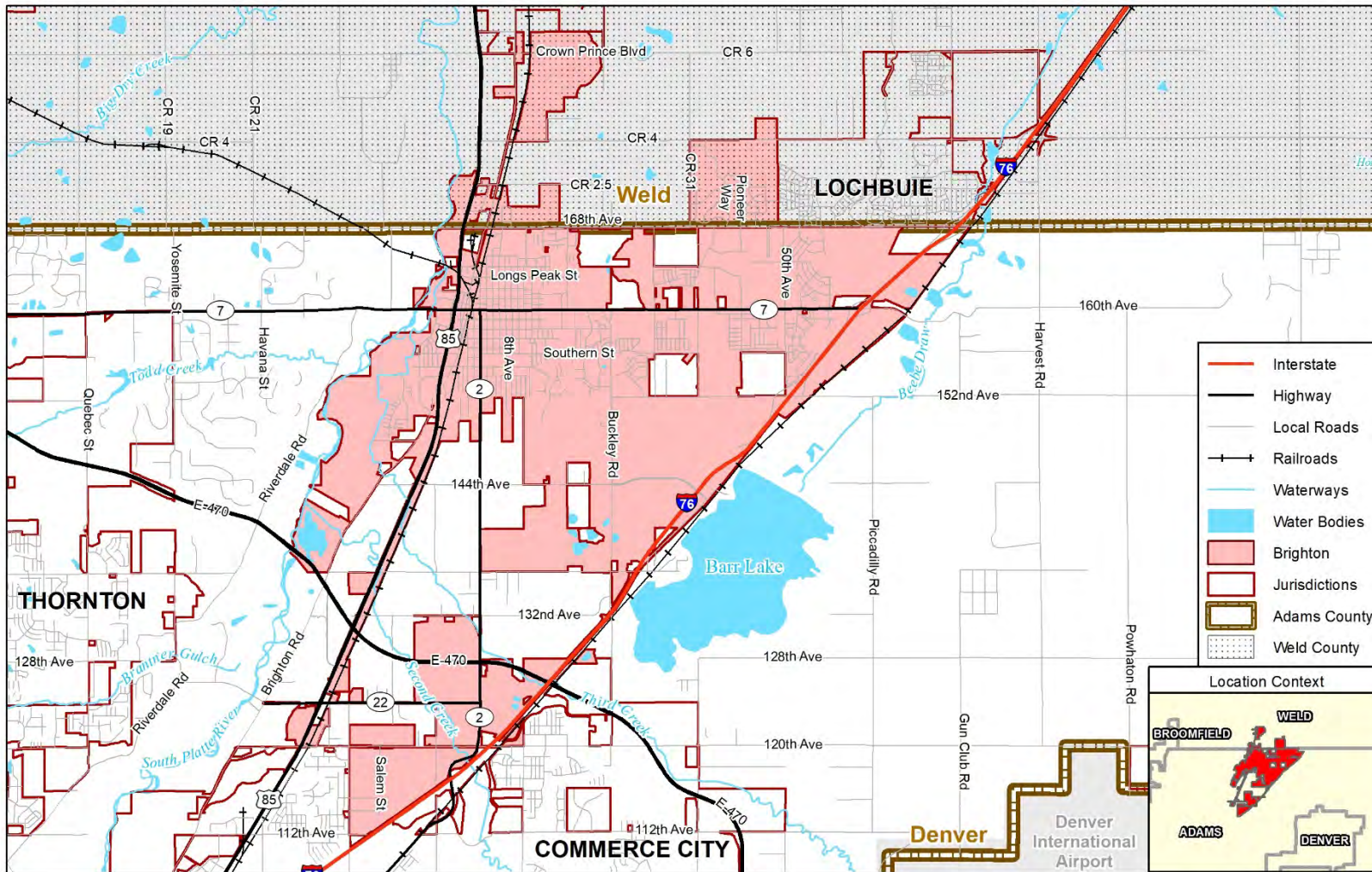
B.2 Community Profile

The City of Brighton is located 20 miles north of downtown Denver and has a land area of 19.98 square miles. Incorporated in 1887, the city sits along the banks of the South Platte River, and is situated in both Adams and Weld Counties. The opening of Denver International Airport in the 1990s led to many changes for the City of Brighton. Rapid and numerous annexations were necessary to accommodate the increase in population driven by increased accessibility. Once a small town with agricultural roots, the City of Brighton is now one of the fastest growing cities in Colorado.

Figure B-1 shows a map of the City of Brighton and its location within Adams and Weld Counties.



Figure B-1 Map of the City of Brighton



wood.
Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
Weld County, ESRI World Terrain Map

B.2.1 Demographics

This section was updated using data from the U.S. Census Bureau’s 2012-2017 American Community Survey (ACS) 5-Year Estimates, and the Colorado State Demography Office.

As of 2017, the U.S. Census Bureau estimated Brighton’s total population at 38,016. This constitutes a 14% increase in population since 2012 (33,219), and a 358% increase since 1970 (8,309). Table B-2 below lists population estimates for the City alongside those of Adams County and the State of Colorado, showing how they have changed in the last five years.

Table B-2 Brighton Population Change, 2012-2017

Jurisdiction	2012	2013	2014	2015	2016	2017	Growth 2012-2017
Brighton	33,219	34,247	35,004	35,582	36,307	38,016	14%
Adams County	442,996	452,030	461,558	471,206	479,977	487,850	10%
Colorado	5,042,853	5,119,329	5,197,580	5,278,906	5,359,295	5,436,519	8%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.

Table B-3 and Table B-4 show several key demographic and social characteristics of Brighton, how those characteristics have changed over the last five year, and how those characteristics compare to the rest of the County and the State.

Table B-3 Brighton Demographic and Social Characteristics, 2012-2017

Brighton	2012	2017	% Change
Population	33,219	38,016	14.4%
Median Age	32.5	32.8	0.9%
Total Housing Units	11,136	12,215	9.7%
Housing Occupancy Rate	94.7%	97.1%	2.5%
% of Housing Units with no Vehicles Available	4.7%	5.4%	14.9%
Median Home Value	\$192,200	\$240,400	25.1%
Unemployment	5.4%	3.1%	-42.6%
Mean Travel Time to Work (minutes)	28.2	29.6	5.0%
Median Household Income	\$62,246	\$67,024	7.7%
Per Capita Income	\$23,916	\$29,263	22.4%
% of Individuals Below Poverty Level	9.0%	10.9%	21.1%
% Without Health Insurance	20.5%	12.6%	-38.5%
# of Households	10,545	11,865	12.5%
Average Household Size	2.98	3.06	2.7%
% of Population Over 25 with High School Diploma	82.2%	84.7%	3.0%
% of Population Over 25 with Bachelor’s Degree or Higher	16.8%	21.4%	27.4%
% with Disability	8.1%	9.6%	18.5%
% Speak English less than "Very Well"	12.5%	9.8%	-21.6%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.



Table B-4 Demographic and Social Characteristics Compared to the County and State

Demographic & Social Characteristics (as of 2017)	Brighton	County	Colorado
Median Age	32.8	33.4	36.5
Housing Occupancy Rate	97.10%	96.00%	89.80%
% of Housing Units with no Vehicles Available	5.40%	5.30%	5.30%
Median Home Value	\$240,400	\$241,900	\$286,100
Unemployment	3.10%	5.10%	5.20%
Mean Travel Time to Work (minutes)	29.6	29.2	25.2
Median Household Income	\$67,024	\$64,087	\$65,458
Per Capita Income	\$29,263	\$27,487	\$38,845
% of Individuals Below Poverty Level	10.90%	12.20%	11.50%
% Without Health Insurance	12.60%	13.40%	9.40%
Average Household Size	3.06	2.98	2.55
% of Population Over 25 with High School Diploma	84.70%	82.60%	91.10%
% of Population Over 25 with bachelor's degree or Higher	21.40%	23.10%	39.40%
% with Disability	9.60%	10.70%	10.60%
% Speak English less than "Very Well"	9.80%	11.50%	6.00%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.

Table B-5 and Figure B-2 break down the demographics of the City by sex, race, and age.

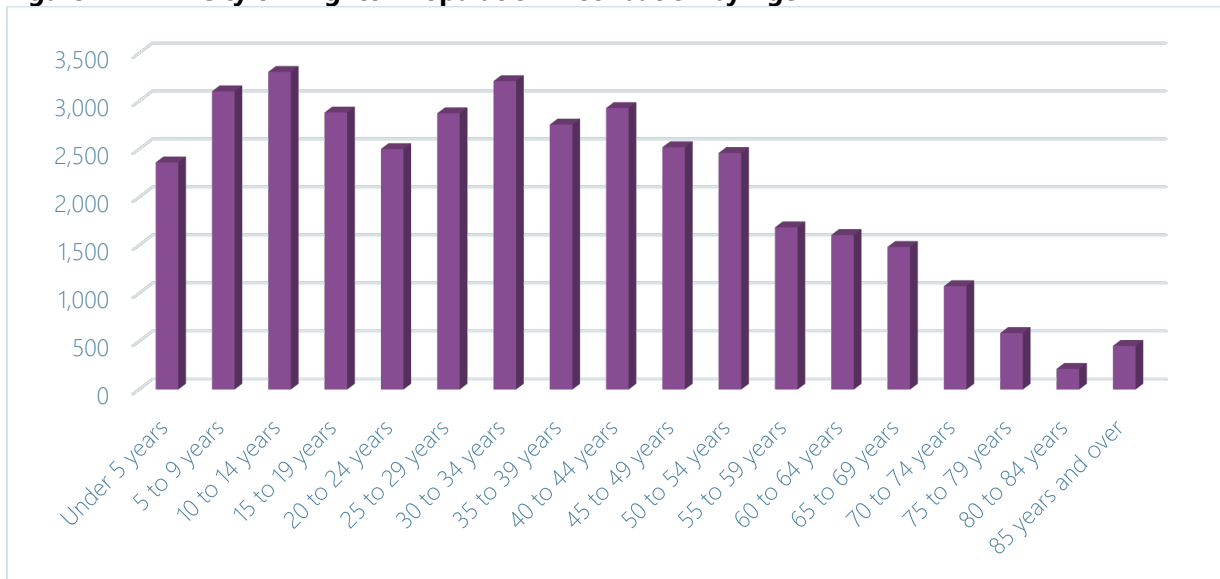
Table B-5 Demographics by Race and Sex

Brighton	Population	%
Total Population	38,016	
Male	19,603	51.6%
Female	18,413	48.4%
White, not Hispanic	20,655	54.3%
Hispanic or Latino	14,601	38.4%
Black	603	1.6%
Asian	1,000	2.6%
American Indian and Alaska Native	288	0.8%
Native Hawaiian and Other Pacific Islander	171	0.4%
Some other race	1,453	3.8%
Two or more races	1,355	3.6%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.



Figure B-2 City of Brighton Population Distribution by Age



Source: U.S. Census Bureau American Community Survey, www.census.gov/.

B.2.2 Housing and Economy

Table B-6 presents the 2017 American Community Survey estimates for types of housing units in the City.

Table B-6 Types and Total Amounts of Housing Units in Brighton

Type of housing units	Total	Percentage
Total housing units	12,215	
1-unit detached	8,521	69.76%
1-unit attached	981	8.03%
2 units	119	0.97%
3 or 4 units	377	3.09%
5 to 9 units	230	1.88%
10 to 19 units	478	3.91%
20 or more units	1,078	8.83%
Mobile home	431	3.53%
Boat, RV, van, etc.	0	0.00%

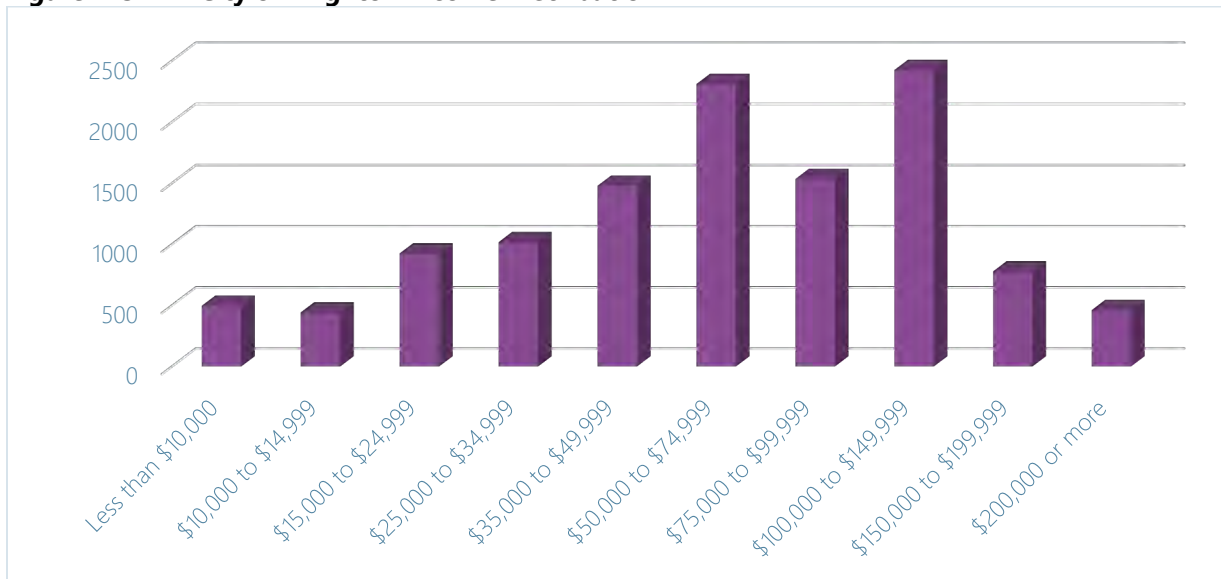
Source: U.S. Census Bureau American Community Survey, www.census.gov/.

As of 2017 the median home value in the City was \$240,400, a 25% increase since 2012. However, that remains slightly below the average for Adams County (\$241,900) and the State (\$286,100). Brighton’s housing occupancy rate is 97.1%, well above the County and State averages.

The City’s per capita income in 2017 was \$29,263, a 22.4% increase since 2012, showing that income has not quite kept up with rising housing costs. The City’s per capita income is above that of Adams County as a whole (\$27,487) but well below the average for Colorado (\$38,845). Figure B-3 shows the distribution of income in the City. Unemployment in 2017 was 3.10%, well below the County average of 5.10%.



Figure B-3 City of Brighton Income Distribution



Source: U.S. Census Bureau American Community Survey, www.census.gov/.

B.3 Hazard Identification and Profiles

The City of Brighton’s Local Planning Team (LPT) identified the hazards that affect the community and summarized their geographic location, probability of future occurrence, potential magnitude or severity, and overall significance specific to the City, as shown in Table B-7. There are no hazards that are unique to Brighton.

Table B-7 City of Brighton Hazard Significance

Hazard	Geographic Location	Probability of Future Occurrence	Magnitude/Severity (Extent)	Overall Significance
Tornado/Damaging Wind	Highly Likely	Extensive	Critical	High
Dam Failure/Incident	Occasional	Limited	Critical	High
Winter Weather	Highly Likely	Extensive	Limited	High
Hazardous Materials Incident	Highly Likely	Limited	Critical	High
Thunderstorms	Highly Likely	Extensive	Negligible	Medium
Flood	Occasional	Limited	Limited	Medium
Wildfire (Brush Fire)	Highly Likely	Limited	Negligible	Medium
Terrorism/Active Shooter	Occasional	Limited	Critical	Medium
Cyber Incident	Likely	Limited	Limited	Medium
Drought	Occasional	Extensive	Negligible	Low
Earthquake	Unlikely	Significant	Limited	Low
Subsidence	Unlikely	Limited	Limited	Low



<p>Geographic Location Limited: Less than 10% of planning area Significant: 10-50% of planning area Extensive: 50-100% of planning area</p> <p>Probability of Future Occurrences Highly Likely: Near 100% chance of occurrence in next year or happens every year. Likely: Between 10 and 100% chance of occurrence in next year or has a recurrence interval of 10 years or less. Occasional: Between 1 and 10% chance of occurrence in the next year or has a recurrence interval of 11 to 100 years. Unlikely: Less than 1% chance of occurrence in next 100 years or has a recurrence interval of greater than every 100 years.</p>	<p>Magnitude/Severity (Extent) Catastrophic—More than 50% of property severely damaged; shutdown of facilities for more than 30 days; and/or multiple deaths Critical—25-50% of property severely damaged; shutdown of facilities for at least two weeks; and/or injuries and/or illnesses result in permanent disability Limited—10-25% of property severely damaged; shutdown of facilities for more than a week; and/or injuries/illnesses treatable do not result in permanent disability Negligible—Less than 10% of property severely damaged, shutdown of facilities and services for less than 24 hours; and/or injuries/illnesses treatable with first aid</p> <p>Significance Low: minimal potential impact Medium: moderate potential impact High: widespread potential impact</p>
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Information on past events can be found in in the hazard profiles in Section 4.3 of the Base Plan.

B.4 Vulnerability Assessment

The intent of this section is to assess Brighton’s vulnerability separate from that of the County as a whole, which has already been assessed in Section 4.3 Vulnerability Assessment of the Base Plan. For most of the hazards listed in Table B-7, hazard and vulnerability do not vary significantly from the County overall, or vulnerability data is difficult to compile or estimate below county level. As a result, only Dam Failure/Incident, Flood, Hazardous Materials Incidents, and Wildfire are profiled separately in this annex. For the purpose of this plan, only the parts of the city that lie specifically within Adams County have been assessed for vulnerability data.

For more information about how hazards affect Adams County, see Section 4 (Risk Assessment) of the Base Plan.

B.4.1 Community Asset Inventory

Table B-8 shows the total number of improved parcels, properties, and their improvement and content values for the City of Brighton. Only those parcels with improvement values greater than \$0 or those classified as “exempt” were counted here and in the vulnerability assessments to follow. Counts and values are based on the latest county assessor’s data (as of September 2019), which was provided in GIS format. Content values were estimated as a percent of the improvement value here and under the hazard vulnerability assessment based on standard FEMA Hazus methodologies: 100% of the improvement value for commercial structures, and 50% for residential structures and exempt or vacant parcels.



Table B-8 City of Brighton Property Exposure

Parcel Type	Improved Parcels	Improved Value	Content Value	Total Value
Agricultural	10	\$338,640	\$338,640	\$677,280
Commercial	475	\$137,165,720	\$137,165,720	\$274,331,440
Exempt	568	\$117,696,370	\$58,848,185	\$176,544,555
Industrial	7	\$3,792,480	\$5,688,720	\$9,481,200
Residential	10,071	\$207,987,600	\$103,993,800	\$311,981,400
State Assessed	27	\$0	\$0	\$0
TOTAL	11,158	\$466,980,810	\$306,035,065	\$773,015,875

Source: Adams County GIS/Assessor’s Office, Wood analysis.

Table B-9 lists summary information about the 76 critical facilities and other community assets identified by the City’s LPT as important to protect or that provide critical services in the event of a disaster. These facilities are mapped in Figure B-4. For additional information on the definitions behind each critical facility category, source, and other details refer to Section 4.3.2 of the Base Plan.

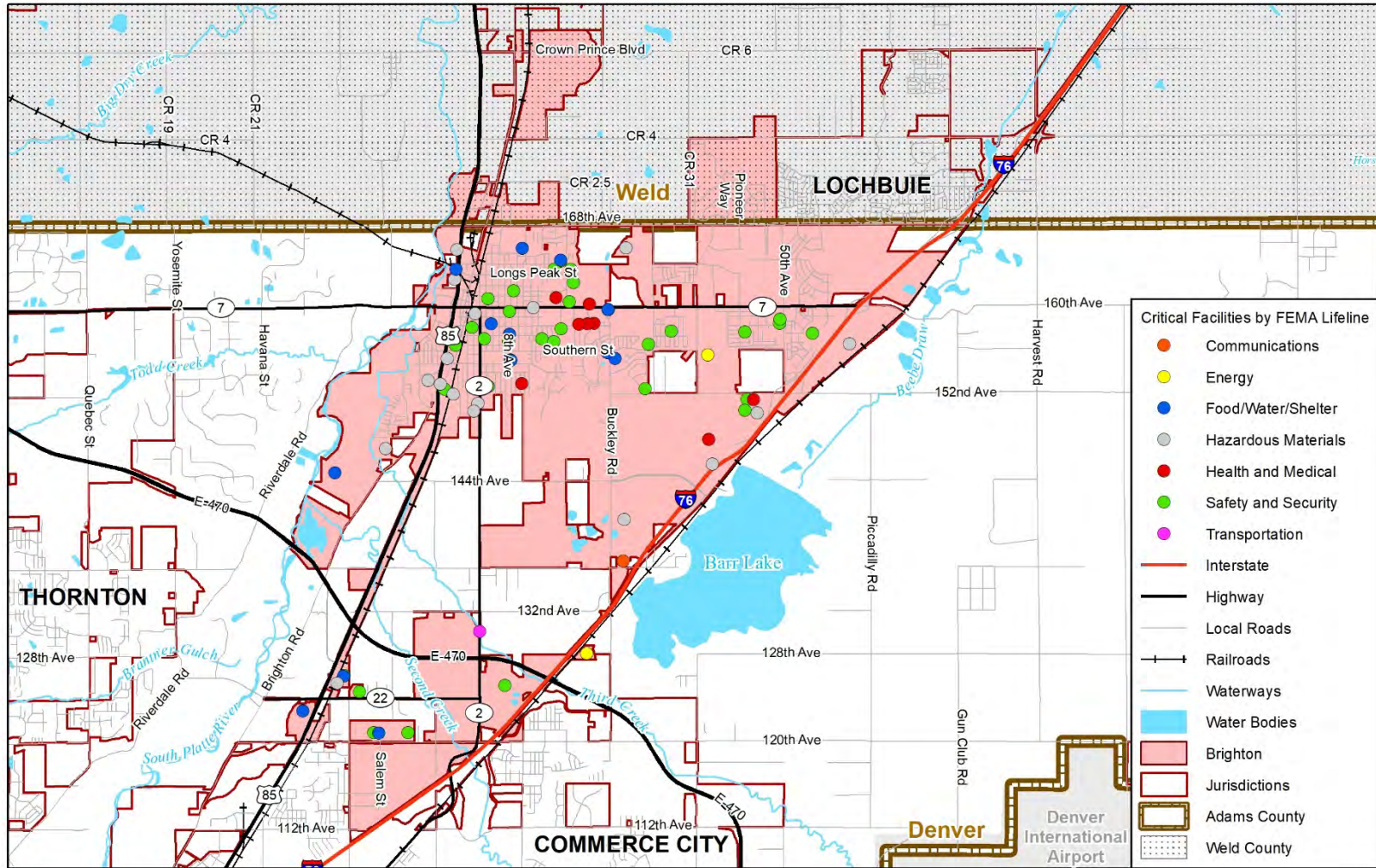
Table B-9 City of Brighton Critical Facilities and Infrastructure Summary

FEMA Lifeline	Critical Facility Type	Total
Communications	Communication Towers	1
Energy	Electric Substations	2
Food/Water/Shelter	Emergency Shelters	9
	Gravel Mines/Ponds	3
	Wastewater Treatment Plant	1
Hazardous Material	Environmental Hazard Superfund	1
	Environmental Hazard Toxic Site	1
	HazMat EO Tier II Sites	15
Health and Medical	Assisted Living	3
	Dialysis Center	1
	Medical Center	1
	Nursing Home	3
Safety and Security	Fire Stations	2
	Government Facilities	6
	Landfills/Govt. Services	4
	Police Station	1
	Schools	21
Transportation	Minor Bridge	1
TOTAL		76

Source: Adams County GIS/Assessor’s Office, Wood analysis.



Figure B-4 City of Brighton Critical Facilities and Infrastructure



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace, HIFLD
Weld County, ESRI World Terrain Map

0 3.5 7 Miles



B.4.2 Dam Failure/Incident Vulnerability

Overall, the LPT felt the City’s risk from a dam failure or incident is High, due to the large number of people and critical facilities potentially at risk compared to the County as a whole.

Table B-10 (excerpted from Table 4-13 in the Base Plan) lists the primary dams in and immediately upstream of the City of Brighton. These dams, along with their potential dam inundation extents are mapped in Figure B-5.

Table B-10 Dams of Concern for the City of Brighton

Dam Name	Waterway	Dam Type	Storage Capacity (Acre-Feet)	Emergency Action Plan?	Primary Purpose	Hazard Rating
Cherry Creek Dam	Cherry Creek	Earth	134,470	Yes	Flood Control	High
Dunes	South Platte River-Os	Earth	5,644	Yes	Water Supply	High
Marshall	Brantner Gulch-Tr	Earth	98	Not Required	Flood Control	Low
Smith Irrigation	Todd Creek	Earth	429	Yes	Fish & Wildlife Pond	High

Source: USACE National Inventory of Dams 2018, Wood analysis

Table B-11 and Table B-12 calculate the people, property, and critical facilities potentially at risk of dam inundation. Based on this analysis, there are 12,855 people and 39 critical facilities potentially at risk of inundation from a dam failure or incident. Projected losses total more than \$141B, although it is important to note that any single dam incident would be unlikely to affect all parcels potentially at risk, with the possible exception of Cherry Creek Dam. A major dam failure could also impact several major transportation corridors, including E-470, and US 85, potentially disrupting traffic in the area.

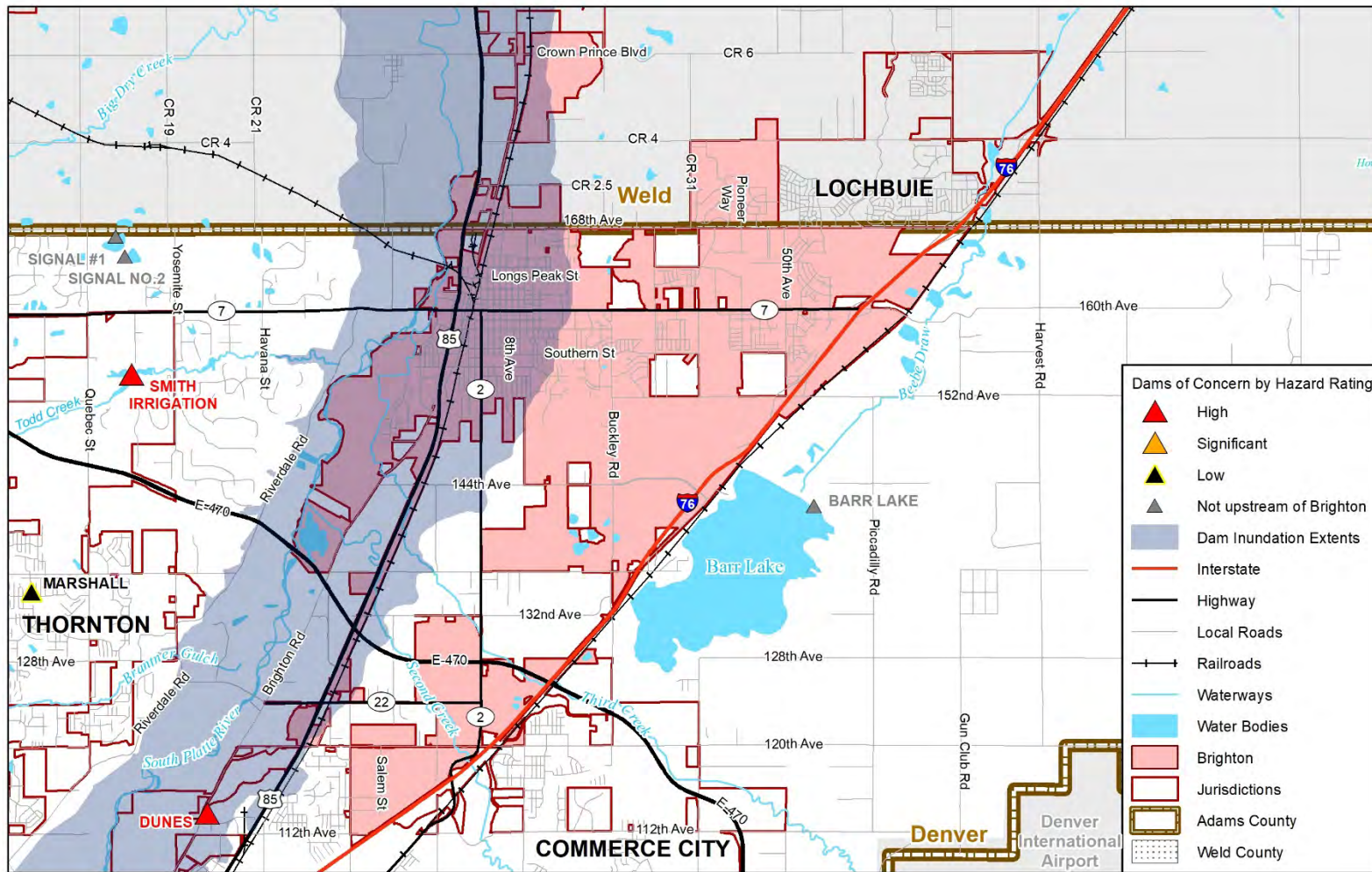
Table B-11 City of Brighton Parcels and Exposure in Dam Inundation Zones

Parcel Type	Improved Parcels	Improved Value	Content Value	Total Value	Loss Estimate (50% of Total Value)	Population
Agricultural	2	\$264,610	\$264,610	\$529,220	\$264,610	--
Commercial	391	\$57,308,190	\$57,308,190	\$114,616,380	\$57,308,190	--
Exempt	247	\$28,728,610	\$14,364,305	\$43,092,915	\$21,546,458	--
Industrial	6	\$2,897,840	\$4,346,760	\$7,244,600	\$3,622,300	--
Residential	4,285	\$78,861,990	\$39,430,995	\$118,292,985	\$59,146,493	12,855
State Assessed	24	\$0	\$0	\$0	\$0	--
TOTAL	4,955	\$168,061,240	\$115,714,860	\$283,776,100	\$141,888,051	12,855

Source: Adams County GIS/Assessor’s Office, Wood analysis.



Figure B-5 City of Brighton Dams of Concern and Dam Inundation Zones



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
Weld County, ESRI World Terrain Map
NID 2018, Colorado Dam Safety

0 3.5 7 Miles



Table B-12 City of Brighton Critical Facilities in Dam Inundation Zones

FEMA Lifeline	Critical Facility Type	Total
Food/Water/Shelter	EO Emergency Shelters	5
	Gravel Mines/Ponds	3
	Wastewater Treatment Plant	1
Hazardous Material	Environmental Hazard Superfund	1
	Environmental Hazard Toxic Site	1
	HazMat EO Tier II Sites	10
Health and Medical	Assisted Living	1
	Nursing Home	1
Safety and Security	Fire Stations	1
	Government Facilities	1
	Landfills/Govt. Services	3
	Schools	11
TOTAL		39

Source: Adams County GIS/Assessor's Office, Wood analysis.

B.4.3 Flood Vulnerability

Overall, the LPT felt the City's flood risk is Medium, due to the lower numbers of people, property, and critical facilities potentially at risk compared to the County as a whole.

The major drainageway in the Brighton area is the South Platte River, which runs along the City's west side. Major tributaries that cross through the City include Second creek and Third Creek. Barr Lake and Beebe Draw border the east side of the City.

Figure B-6 shows the mapped floodplains in the latest version of FEMA's National Flood Hazard Layer (NFHL). The NFHL maps both the 1% annual chance (100-year) and the 0.2% annual chance (500-year) flood events, as described in more detail in Section 4.3.5 of the Base Plan.

Table B-13 and Table B-14 summarize the people, property, and critical facilities located in the 100-year and 500-year floodplains. Based on this analysis, there are 3 people, 32 properties with a potential for \$64,971 worth of property damage, and 2 critical facilities potentially at risk of a 1% annual chance flood. For a 0.2% annual chance flood, that vulnerability increases by 249 people and \$1.5M worth of property damage in addition to what would be affected by the 1% flood. As with Dam Failure/Incident above, several critical transportation corridors could be disrupted.

Table B-13 City of Brighton Parcels and Exposure in Flood Zones

Flood Event	Parcel Type	Total Improved Parcels	Improved Value	Content Value	Total Value	Loss Estimate (25% of Total Value)	Population
100-year	Exempt	31	\$138,820	\$69,410	\$208,230	\$52,058	--
	Residential	1	\$80,710	\$40,355	\$121,065	\$30,266	3
100-year Total		32	\$219,530	\$109,765	\$329,295	\$82,324	3
500-year	Commercial	2	\$285,230	\$285,230	\$570,460	\$142,615	--
	Exempt	8	\$12,190	\$6,095	\$18,285	\$4,571	--



Flood Event	Parcel Type	Total Improved Parcels	Improved Value	Content Value	Total Value	Loss Estimate (25% of Total Value)	Population
	Residential	83	\$3,549,760	\$1,774,880	\$5,324,640	\$1,331,160	249
500-year Total		93	\$3,847,180	\$2,066,205	\$5,913,385	\$1,478,346	249
GRAND TOTAL		125	\$4,066,710	\$2,175,970	\$6,242,680	\$1,560,670	252

Source: Adams County GIS/Assessor's Office, Wood analysis.

Table B-14 City of Brighton Critical Facilities in Flood Zones

Flood Event	FEMA Lifeline	Critical Facility Type	Total
100-year	Food/Water/Shelter	Gravel Mines/Ponds	1
	Transportation	Minor Bridge	1
100-Year Total			2
500yr	---	---	-
500-Year Total			0
GRAND TOTAL			2

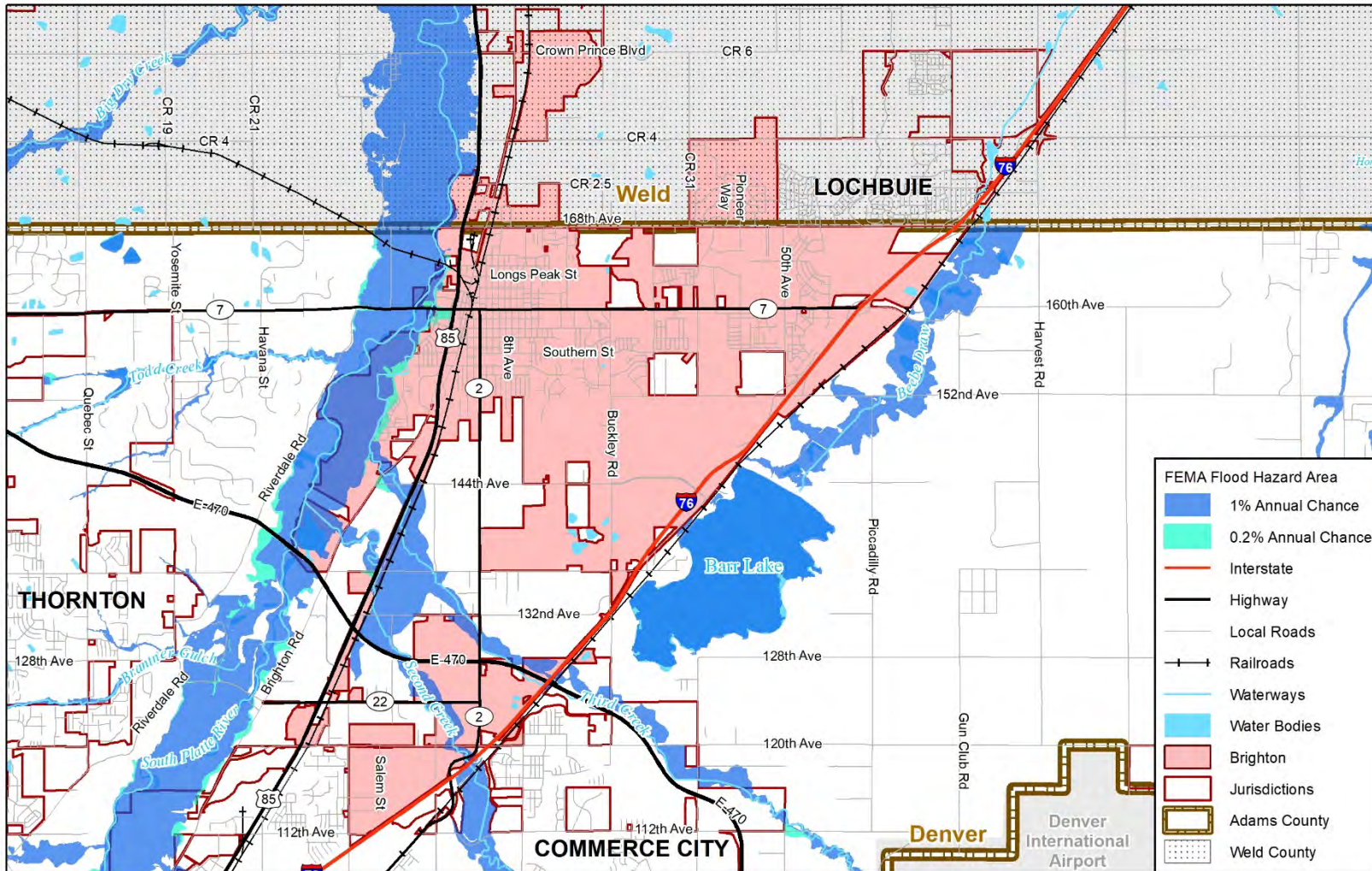
Source: Adams County GIS/Assessor's Office, Wood analysis.

National Flood Insurance Program Policy Analysis

Brighton has participated in the National Flood Insurance Program (NFIP) since November 16, 1977. NFIP insurance data shows that as of September 2019, there were 9 flood insurance policies in force in the City with \$2,224,000 of coverage. This is an increase of 8 policies since 2013. There have been two historical claims for flood losses totaling \$3,293. There are no repetitive or severe repetitive loss structures as defined by the NFIP as of September 2019. The City of Brighton does not participate in the Community Rating System (CRS) program.



Figure B-6 FEMA Special Flood Hazard Areas in the City of Brighton



Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace, FEMA NFHL,
Weld County, ESRI World Terrain Map

0 3.5 7 Miles



B.4.4 Hazardous Materials Incident

The National Response Center (NRC) records 71 hazardous materials incidents in or near the City of Brighton from 1990 through 2018; as noted in Section 5.3.13 of the Base Plan, this likely excludes a large number of unreported minor spills. This constitutes 8.5% of the 832 hazardous materials incidents reported countywide during the same time frame, and averages out to roughly 2.4 incidents per year. As noted in Section 5.3.13, only around 6% of reported hazardous materials incidents result in injuries, fatalities, or evacuations.

As of January 2020, there are 15 EPA Tier II facilities and no Risk Management Plan (RMP) facilities located in the City.

B.4.5 Wildfire Vulnerability

Overall, the LPT felt Brighton’s risk from wildfires is Medium, due to the prevalence of brush fires in the area.

Figure B-7 shows the Wildland Urban Interface (WUI) areas in and near the City of Brighton by medium and low density; the City does not have any high density WUI areas.

Table B-15 and Table B-16 calculate the people, property, and critical facilities located in the low and medium density WUI areas. Based on this analysis, there are 114 people, \$1.3M worth of property damage, and no critical facilities located in medium density WUI areas. Low density WUI areas include no people or potential property damage, but do include one critical facility.

Table B-15 City of Brighton Parcels and Exposure in Wildland Urban Interface (WUI) Zones

WUI Zone	Parcel Type	Improved Parcels	Improved Value	Content Value	Total Value	Population
Low Density	Exempt	2	\$0	--	\$0	--
Medium Density	Residential	38	\$878,560	\$439,280	\$1,317,840	114
TOTAL		40	\$878,560	\$439,280	\$1,317,840	114

Source: Adams County GIS/Assessor’s Office, Wood analysis.

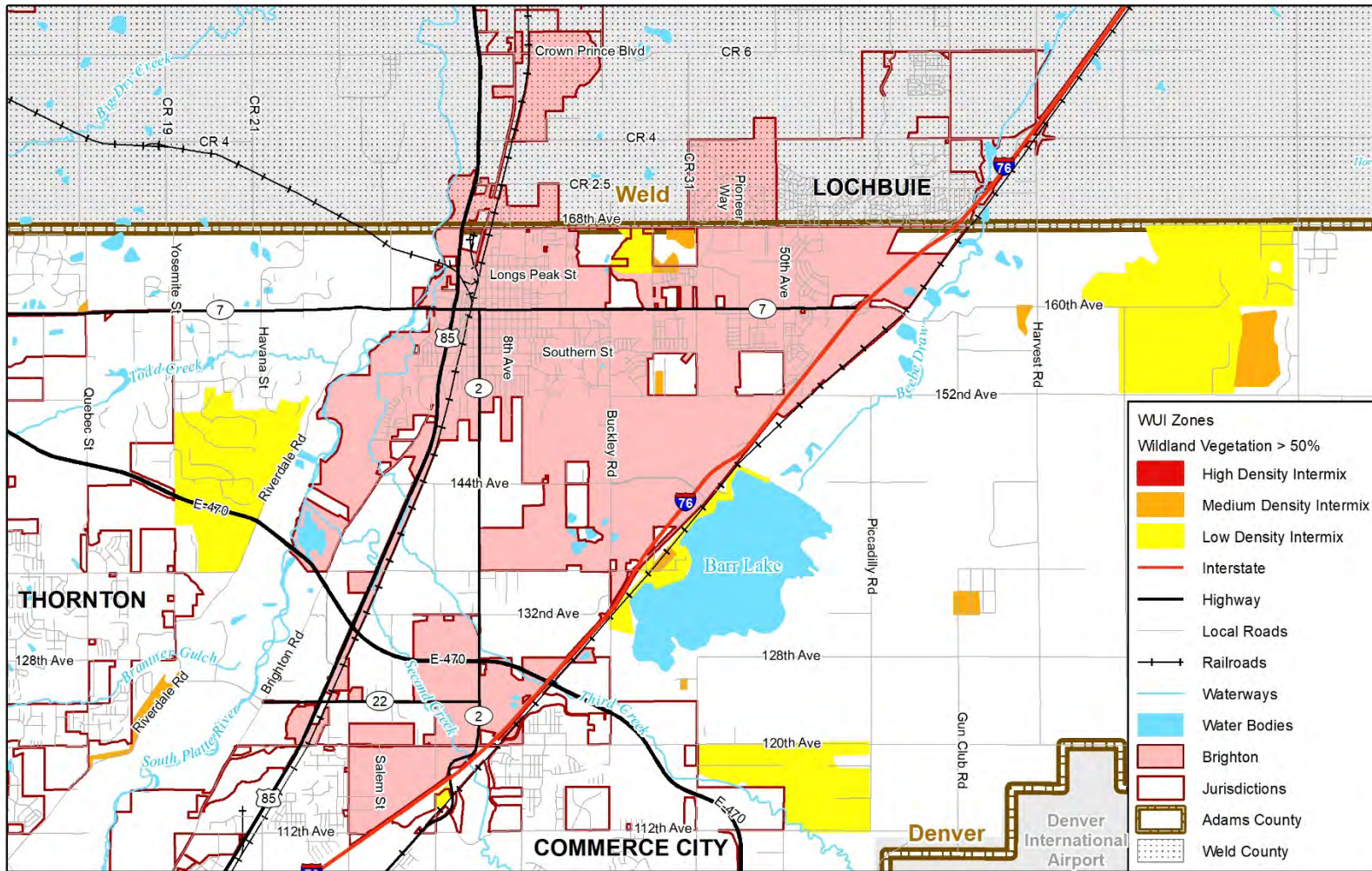
Table B-16 City of Brighton Critical Facilities in Wildland Urban Interface (WUI) Zones

Wildfire	FEMA Lifeline	Critical Facility Type	Total
Low Density	Hazardous Material	HazMat EO Tier II Sites	1
TOTAL			1

Source: Adams County GIS/Assessor’s Office, Wood analysis.



Figure B-7 Wildland Urban Interface (WUI) Intermix Areas in the City of Brighton



wood.
Map compiled 2/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
Weld County, ESRI World Terrain Map,
2012 Comprehensive Plan

0 3.5 7 Miles



B.4.6 Growth and Development Trends

Table B-17 lists the number of building permits issued by the City from 2010 through 2019. They illustrate the steady growth in development over the past decade.

Table B-17 City of Brighton Building Permits Issued 2010-2019

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Residential (# of Units)	50	57	391	114	203	205	523	366	265	500
Commercial	1	4	4	8	3	5	6	10	7	8
Industrial	4	1	0	35	2	1	0	1	3	5
Public Buildings	0	4	3	1	0	0	1	1	0	0
Total	55	66	398	158	208	211	530	378	275	513

Source: Brighton Community Development, www.brightonco.gov/214/Community-Development

B.5 Capability Assessment

This section profiles the programs and policies currently in use by the City of Brighton to reduce hazard impacts or that could be used to implement hazard mitigation activities. The capabilities assessment is divided into five sections: planning and regulatory mitigation capabilities, administrative and technical mitigation capabilities, fiscal mitigation capabilities, past and ongoing mitigation outreach, and other mitigation efforts.

B.5.1 Planning and Regulatory Mitigation Capabilities

Table B-18 lists planning and land management tools typically used by local jurisdictions to implement hazard mitigation activities and indicates those that are in place in Brighton.

Table B-18 City of Brighton Planning and Regulatory Mitigation Capabilities

Regulatory Tool (ordinance, code, plans)	Yes/No	Comments
Comprehensive Plan	Yes	Brighton 2020 Comprehensive Plan
Zoning ordinance	Yes	
Subdivision ordinance	Yes	
Growth management ordinance	Yes	
Floodplain ordinance	Yes	Prevents certain types of development from occurring in the floodplain and floodway. This ordinance also sets requirements for any change to the regulatory floodplain and floodway.
Building codes	Yes	
Fire department ISO rating	Yes	
Erosion or sediment control program	No	This controls environmental pollution.
Storm water management program	Yes	This program is in place to reduce flooding in developed areas.
Site plan review requirements	Yes	
Capital improvement plan	Yes	
Economic development plan	Yes	
Local emergency operations plan	Yes	Updated on 2 year cycles and next update is in Nov 2020
Other special plans	Yes	Recovery, Alert and Warning, Shelter, Debris Management,



Regulatory Tool (ordinance, code, plans)	Yes/No	Comments
Flood insurance study or other engineering study for streams	Yes	This defines new floodplain areas and identifies capital improvement projects to reduce flood hazards.
Elevation certificates (for floodplain development)	Yes	This works to reduce flooding of any proposed development in the City.

Brighton 2020 Comprehensive Plan

The following are the overall goals that the City of Brighton established in their Comprehensive Plan: Brighton 2020: A Vision for Managing Change and Promoting Excellence. These goals are the foundation and guide to the public and private sector as decisions are made that “effect the future quality of life of existing and future residents and the natural and build environment in which they live, learn, work, and play.” The achievement of the following goals will depend largely on the City’s ability to successfully implement its hazard mitigation strategies and reduce risk to people and property from hazards.

- Preserve and enhance Brighton’s quality of life
- Preserve and enhance Brighton’s small town identity
- Promote and develop Brighton as a sustainable community
- Promote and protect Brighton’s “Free-Standing” community
- Maintain Brighton’s farming character
- Promote Brighton’s local history
- Promote community focal points
- Become an “inclusive” community
- Encourage interaction among residents

The majority of Brighton’s long-term planning goals and visions depend on fostering a safe, hazard resilient community.

Historic Splendid Valley District Plan

Historic Splendid Valley is an eclectic agricultural area established through a partnership with the City of Brighton and Adams County. The area is focused on preserving farmland and stimulating innovative opportunities that create closer connections between people, farming and nature. The District has been in a state of transition since E-470 opened in 2003, making the area more accessible and developable, threatening its farming heritage, the local food economy, and the buffer that farmland provides between Brighton and the Denver region.

The City of Brighton partnered with Adams County to draft the District Plan to study the feasibility of preserving farmland in southern Brighton that remains valuable for food production, while allowing for a range of development opportunities that consider the most efficient and sustainable use of the land. This plan helps decision-makers guide investment in the area for compatible residential, commercial, and industrial development, as well as farmland conservation, and local food and agritourism promotion.

Second Creek Major Drainageway Plan and Flood Hazard Area Delineation

Mile High Flood District is currently in the process of creating a master plan for Second Creek. This plan identifies capital improvement projects along the stream corridor and will also delineate a new regulatory floodplain. The City of Brighton is a sponsor of this study.



Third Creek Major Drainageway Plan and Flood Hazard Area Delineation

Mile High Flood District is currently in the process of creating a master plan for Third Creek. This plan identifies capital improvement projects along the stream corridor and will also delineate a new regulatory floodplain. The City of Brighton is a sponsor of this study.

South Platte River

Mile High Flood District is currently in the process of creating a master plan for the South Platte River. This plan identifies capital improvement projects along the stream corridor and will also delineate a new regulatory floodplain.

2006 Brighton Outfall System Plan

This plan identifies capital improvement projects to prevent or reduce flooding throughout the City. Mile High Flood District was a sponsor of this study.

2015 Brighton Stormwater Master Plan

This plan identifies capital improvement projects to prevent or reduce flooding throughout the City. Mile High Flood District was a sponsor of this study.

B.5.2 Administrative and Technical Mitigation Capabilities

Table B-19 identifies the personnel responsible for activities related to mitigation and loss prevention in Brighton.

Table B-19 City of Brighton Administrative and Technical Mitigation Capabilities

Personnel Resources	Yes/No	Department/Position
Planner/engineer with knowledge of land development/land management practices	Yes	Utilities/Assistant Director of Utilities
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	Utilities/Assistant Director of Utilities
Public Works/Public Works Engineering Manager		
Planner/engineer/scientist with an understanding of natural hazards	Yes	
Personnel skilled in GIS	Yes	Information Technology/Senior GIS Analyst Information Technology/GIS Technician Information Technology/GIS Administrator
Full time building official	Yes	Community Development/Chief Building Official
Floodplain manager	Yes	Infrastructure/Director of Infrastructure
Emergency manager	Yes	Emergency Management Coordinator

B.5.3 Fiscal Mitigation Capabilities

Table B-20 identifies financial tools or resources that Breckenridge could potentially use to help fund mitigation activities.



Table B-20 City of Brighton Fiscal Mitigation Capabilities

Financial Resources	Accessible / Eligible to Use	Has Been Used in the Past	Comments
Community Development Block Grant	Yes	No	This is accessible only to the extent the City has applied and been awarded funds for this purpose
Capital Improvements Project funding	Yes	Yes	
Authority to levy taxes for specific purposes	No	No	A levy for specific purposes requires a vote of residents
Fees for water, sewer, gas, or electric services	Yes	Yes	Only to the extent the mitigation is necessary for the operation of the water and sewer enterprise.
Impact fees for new development	Yes	Yes	
Incur debt through general obligation bonds	No	No	Debt requires a vote of residents
Incur debt through special tax bonds	No	No	Debt requires a vote of residents
Incur debt through private activities	No	No	Debt requires a vote of residents
Withhold spending in hazard prone areas	Yes	No	

B.5.4 Past and Ongoing Mitigation Efforts

In 2015 the city was able to utilize an HMPG grant to install additional outdoor warning sirens to better warn the public of all hazard events, particularly tornado activity within the city.

The City of Brighton provides the local community with information on local hazards through a variety of platforms:

- Citizen Policy Academy
- Community Emergency Response Team (CERT) training
- Participating in community events (City BBQs, public events, etc.)
- Weather Spotter courses offered to city staff and residents

Local Citizen Groups That Communicate Hazard Risks: the Brighton Community Emergency Response Team (CERT) provides an annual course that outlines the risks to our local community as well as individual, family and neighborhood action items to help mitigate risk. Additionally, team leadership responds to community requests for information by senior groups, faith based organizations, and city departments and integrates local hazard information into each of these formats. The City does not currently participate in Firewise or StormReady.

B.5.5 Opportunities for Enhancement

Based on the capability assessment, Brighton has several existing mechanisms in place that already help to mitigate hazards. There are also opportunities for the City to expand or improve on these policies and programs to further protect the community. Future improvements may include providing training for staff members related to hazards or hazard mitigation grant funding in partnership with the County and DHSEM. Additional training opportunities will help to inform City staff and City Council on how best to integrate hazard information and mitigation projects into the City policies and ongoing duties of the City. Continuing to train City staff on mitigation and the hazards that pose a risk to the City will lead to more



informed staff members who can better communicate this information to the public. Another capability enhancement would be to consider joining the CRS, which would require enhancements to the City's floodplain management program; however, the low number and value of flood insurance policies in Brighton means this would not significantly affect flood insurance affordability in the City.

B.6 Mitigation Goals and Objectives

The City of Brighton has adopted the hazard mitigation goals and objectives developed by the HMPC and described in Section 6.2 of the Base Plan.

B.7 Mitigation Actions

The local planning team identified and prioritized the following mitigation actions for the City of Brighton based on the risk assessment. Information on how each action will be implemented and administered, such as ideas for implementation, responsible agency, potential funding, estimated cost, and timeline also are included. These actions are also captured in Table 6-2 in the Base Plan.

Table B-21 City of Brighton 2020 Mitigation Action Plan

ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
COB-1	1,2,4	Multi-Hazard: Drought, Earthquake, Subsidence, Flood, Winter Weather, Thunderstorm, Tornado, Wildfire, Hazmat	Integrate mitigation & preparedness planning into existing public education programs: Integrate in programs around the city to enhance resiliency of the community around all hazard vulnerabilities. Residents must be aware of local hazards and the mitigation & preparedness actions they can take to assist in protecting themselves and their families from the adverse effects, and to enhance community resiliency. Continued and additional community education and training to specifically address local hazards, containing detailed recommendations around potential community action items, which are crucial to continue to reinforce the need to take personal and individual action to mitigate risk related to local hazards. Add information about local hazards and mitigation strategies into existing citizen centered trainings and/or developed hazard and response specific training for citizens as needed to provide information to residents about mitigation/preparedness options in their community.	City of Brighton/ Brighton Fire Rescue District's OEM	\$5,000	HSGP, EMPG, local budgets	High	2021	In progress. Community education programs (CERT, Citizen Police Academy, Weather Spotter etc.) contain the most recent assessment of local hazards and mitigations actions that can be undertaken by community members to promote resiliency. This program is always in process as additional classes are hosted and hazards are evaluated.
COB-2	2	Multi-Hazard: Thunderstorm, Tornado,	Emergency Services Support Generator: Currently, the city maintains only a small generator at the Brighton Police Department, capable only of supporting minimal emergency lighting, the security of detention cells, and limited	City of Brighton	\$200,000	FEMA HMA funding, City of Brighton Capital	High	2022	Continue – Not Completed. A project to develop backup power for shelter sites was determined to be



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
		Winter Weather, Flood, Dam Failure, Hazardous Materials, Earthquake, Subsidence, Wildfire, Terrorism, Cyber	communication systems. The current generator cannot support the emergency coordination functions which take place at this location. Install a generator and associated wiring to support emergency functions during a short- or long-term power outage. The wiring and installation of a 500KVA generator and a 1200amp transfer switch would allow for a reliable back up power source at a critical city facility. This generator would support key city staff and services at this location and would allow for the relocation of staff and continuity of critical services. In addition, emergency support related services and functions are coordinated from this location. Critical emergency support functions such as operation of the Emergency Operations Center (EOC), location of the Policy Group meeting area and information center, the Joint Information Center (JIC) and local law enforcement operations are designated to take place at this location.			Improvements budget			higher priority and has been underway since 2015.
COB-3	2	Multi-Hazard: Winter Weather, Thunderstorm, Tornado	Public/Emergency Shelter Generator for Eagle View Adult Center: Eagle View Adult Center is the main shelter location for the city. It does not have a generator nor is the building wired to accept a generator. Project would be purchasing a generator and wiring the building to setup the generator. Benefits: Ability to safely shelter residents during power loss.	City of Brighton OEM and Parks and Rec	\$250,000 - \$300,000	HMA grants and General Funds	High	2025-2030	New in 2020. UASI funding was secured in 2015 to wire the Eagle View Adult Center for receiving a generator, but due to an extreme overrun in expected construction costs, this project was never implemented,



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
									and funding was returned to UASI.
COB-4	2	Tornado	Expansion of Outdoor Warning System: Expand the City's siren system to cover portions of unincorporated Adams and Weld Counties. Several areas within the Brighton Fire Rescue District and the north area (Weld County) of the City of Brighton are without outdoor warning sirens. Installation of additional warning sirens in the locations lacking coverage to warn residents of potential hazards.	City of Brighton, Brighton Fire Rescue District	\$45,000 per unit	HMA funding	High	2021	In progress. Sirens scheduled to be installed at Great Rock and Todd Creek Fire Stations with HMP funds have been completed. Plans for an additional unit to be placed at Vestas have been put on hold pending the development of an easement for public safety facility.
COB-5	2	Flood	North Outfall Phase III: Complete engineering civil drawings and construct the outfall system. Design and construct a larger outfall system to convey flows to South Platte River. Add additional inlets and piping network to more efficiently collect storm runoff.	City of Brighton	\$4,800,000	Storm water impact fees, monthly fees and MHFD.	High	2021	In progress. City has 50-percent design plans. Will be under contract for 100-percent design plans in 2020.
COB-6	2	Flood	Master Drainage Plan: Comprehensive master planning efforts are needed to provide guidance to the City. The City needs to hire an engineering consulting firm to complete a comprehensive master drainage plan.	City of Brighton, MHFD	\$25,000	Already available stormwater funding	Medium	End of 2020	In progress. Project budgeted for end of 2020.
COB-7	2	Flood	Second and Egbert Drainage Improvements: An undersized drainage pipe and lack of inlet do not provide appropriate drainage at this intersection.	City of Brighton	\$250,000	Stormwater impact fees and	Low	2023	Continue – Not Completed.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
			Design and construct drainage infrastructure to alleviate flooding at this intersection.			monthly fees.			
COB-8	2	Flood	Third Creek and Brighton Road: The Third Creek Crossing under Brighton Road has become silted and is not adequately sized to pass 100-year flows. Complete engineering civil drawings and construct a 100-year crossing under Brighton Road.	City of Brighton	\$4,000,000	Storm water impact fees, monthly fees and MHFD.	Low	2025	Continue – Not Completed.
COB-9	2	Flood	South Brighton Outfall: The far southern portion of the City needs drainage improvements to convey storm flows to the South Platte River. Design and construct an outfall system to convey flows to South Platte River. Complete engineering civil drawings and construct the outfall system.	City of Brighton	\$20,000,000	Storm water impact fees, monthly fees and MHFD.	Medium	2025	Continue – Not Completed.
COB-10	2	Flood	Recreation Center Tributary Outfall: Design and construct an outfall to serve the properties surrounding the intersection of Bridge and Telluride Street to prevent localized flooding of public roadways.	City of Brighton and MHFD	\$4,500,000	Storm water impact fees, monthly fees and MHFD.	High	2025	New in 2020.



B.7.1 Continued Compliance with the National Flood Insurance Program

Recognizing the importance of the National Flood Insurance Program (NFIP) in mitigating flood losses, the City of Brighton will place an emphasis on continued compliance with the NFIP. As an NFIP participant, the City has and will continue to make every effort to remain in good standing with NFIP. This includes continuing to comply with the NFIP's standards for updating and adopting floodplain maps and maintaining and updating the floodplain zoning ordinance as well as review of any potential development in special flood hazard areas.

B.8 Implementation and Maintenance

This section provides an overview of the City's strategy for plan implementation and maintenance, and outlines the method and schedule for monitoring, evaluating, and updating the plan. The section also discusses incorporating the plan into existing planning mechanisms and how to ensure continued public involvement in mitigation planning.

B.8.1 Incorporation into Existing Planning Mechanisms

The information contained within this plan, including results from the Vulnerability Assessment, and the Mitigation Strategy will be used by the City to help inform updates and the development of local plans, programs and policies, as described in Section 7.3 of the Base Plan. The following mitigation actions listed in Table B-21 specifically address development of local plans that will be informed by the information in this HMP:

- COB-1: Integrate mitigation & preparedness planning into existing public education programs
- COB-6: Master Drainage Plan

The City of Brighton was not included in the 2014 Adams County Hazard Mitigation Plan, and as such did not incorporate elements of that plan into other planning mechanisms.

B.8.2 Monitoring, Evaluation and Updating the Plan

The City Emergency Manager will be responsible for monitoring, evaluating, and updating this plan using the process outlined in Section 7 of the Base Plan. The City will continue to involve the public in mitigation, as described in Section 7.4 of the Base Plan. The City Emergency Manager will be responsible for representing the City on the Adams County HMPC, and for coordination with City staff and departments during plan updates. The City will review this annex regularly and will update it every five years in accordance with the Disaster Mitigation Act Requirements.



C City of Commerce City

This Annex consolidates information specific to Commerce City and goes into more detail about risk, capabilities, and mitigation strategies unique to that jurisdiction.

C.1 Mitigation Planning History and 2020 Update Process

The City of Commerce City is situated in western Adams County. Commerce City had previously participated in the 2010 Denver Regional Natural Hazard Mitigation Plan. The City committed to participating in the 2020 Adams County plan update and met all participation requirements. The City participated in the County’s multi-jurisdictional Hazard Mitigation Planning Committee (HMPC), and also brought together a Local Planning Team (LPT) to help collect data, identify and prioritize City mitigation actions and implementation strategies, and review annex drafts.

Table C-1 Commerce City Local Planning Team

Department or Stakeholder	Title
Office of Emergency Management	Emergency Manager
Community Development	Planning Manager
Public Works	Flood Plain Administrator

More details on the planning process and participating jurisdictions, service districts and stakeholders can be found in Section 3 of the Base Plan, along with the public’s role during the 2020 update.

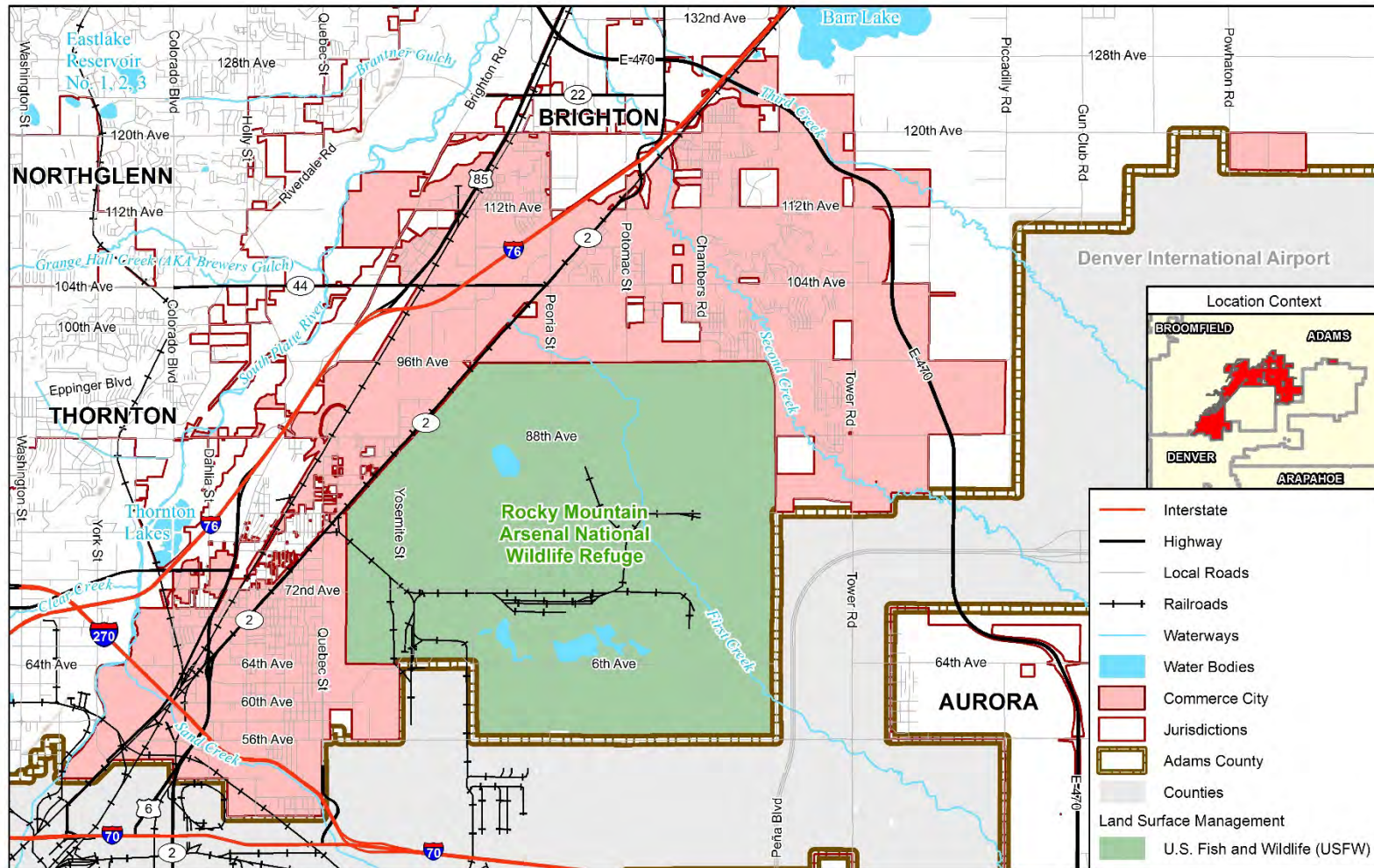
C.2 Community Profile

Commerce City is located in western Adams County. The City has a land area of 35.22 square miles and is bordered by the City of Denver to the south, the City of Thornton to the west, the Cities of Northglenn and Brighton to the north, and Denver International Airport to the east. Rocky Mountain Arsenal National Wildlife Refuge is bordered on its western, northern, and northeastern sides by Commerce City. The City was incorporated in 1952 and was officially named Commerce City in 1963 after the annexation of Derby and subsequent increase in population. Today, Commerce City is one of the fastest growing communities in the State.

Figure C-1 shows a map of the City of Commerce City and its location within Adams County.



Figure C-1 Map of the City of Commerce City



wood.
Map compiled 1/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI World Terrain Map

C.2.1 Demographics

This section was updated using data from the U.S. Census Bureau’s 2012-2017 American Community Survey (ACS) 5-Year Estimates, and the Colorado State Demography Office.

As of 2017, the U.S. Census Bureau estimated Commerce City’s total population at 52,905. This constitutes a 16% increase in population since 2012 (45,537). Table C-2 below lists population estimates for the City alongside those of Adams County and the State of Colorado, showing how they have changed in the last five years.

Table C-2 Commerce City Population Change, 2012-2017

Jurisdiction	2012	2013	2014	2015	2016	2017	Growth 2012-2017
Commerce City	45,537	47,239	48,792	50,346	51,731	52,905	16%
Adams County	442,996	452,030	461,558	471,206	479,977	487,850	10%
Colorado	5,042,853	5,119,329	5,197,580	5,278,906	5,359,295	5,436,519	8%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.

Table C-3 and Table C-4 show several key demographic and social characteristics of Commerce City, how those characteristics have changed over the last five year, and how those characteristics compare to the rest of the County and the State.

Table C-3 Commerce City Demographic and Social Characteristics, 2012-2017

Commerce City	2012	2017	% Change
Population	45,537	52,905	16.2%
Median Age	30.2	30.7	1.7%
Total Housing Units	15,788	15,724	-0.4%
Housing Occupancy Rate	90.5%	96.9%	7.1%
% of Housing Units with no Vehicles Available	5.4%	5.3%	-1.9%
Median Home Value	\$188,400	\$258,500	37.2%
Unemployment	6.9%	3.1%	-55.1%
Mean Travel Time to Work (minutes)	29.1	29.1	0.0%
Median Household Income	\$60,963	\$69,268	13.6%
Per Capita Income	\$22,640	\$24,076	6.3%
% of Individuals Below Poverty Level	17.7%	12.2%	-31.1%
% Without Health Insurance	21.3%	9.6%	-54.9%
# of Households	14,294	15,240	6.6%
Average Household Size	3.16	3.45	9.2%
% of Population Over 25 with High School Diploma	76.4%	80.6%	5.5%
% of Population Over 25 with Bachelor’s Degree or Higher	20.1%	22.7%	12.9%
% with Disability	10.2%	8.1%	-20.6%
% Speak English less than "Very Well"	16.2%	12.0%	-25.9%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.



Table C-4 Demographic and Social Characteristics Compared to the County and State

Demographic & Social Characteristics (as of 2017)	Commerce City	County	Colorado
Median Age	30.7	33.4	36.5
Housing Occupancy Rate	96.90%	96.00%	89.80%
% of Housing Units with no Vehicles Available	5.30%	5.30%	5.30%
Median Home Value	\$258,500	\$241,900	\$286,100
Unemployment	3.10%	5.10%	5.20%
Mean Travel Time to Work (minutes)	29.1	29.2	25.2
Median Household Income	\$69,268	\$64,087	\$65,458
Per Capita Income	\$24,076	\$27,487	\$38,845
% of Individuals Below Poverty Level	12.20%	12.20%	11.50%
% Without Health Insurance	9.60%	13.40%	9.40%
Average Household Size	3.16	2.98	2.55
% of Population Over 25 with High School Diploma	76.40%	82.60%	91.10%
% of Population Over 25 with bachelor's degree or Higher	20.10%	23.10%	39.40%
% with Disability	10.20%	10.70%	10.60%
% Speak English less than "Very Well"	16.20%	11.50%	6.00%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.

Table C-5 and Figure C-2 break down the demographics of the City by sex, race, and age.

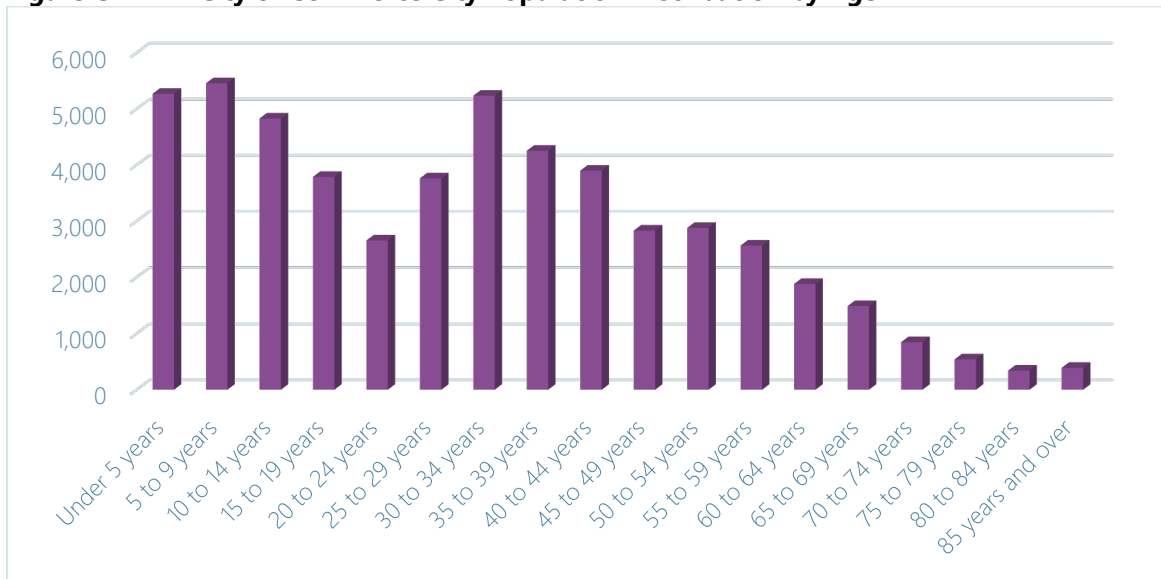
Table C-5 Demographics by Race and Sex

Commerce City	Population	%
Total Population	52,905	
Male	26,393	49.9%
Female	26,512	50.1%
White, not Hispanic	23,595	44.6%
Hispanic or Latino	24,557	46.4%
Black	2,169	4.1%
Asian	1,065	2.0%
American Indian and Alaska Native	522	1.0%
Native Hawaiian and Other Pacific Islander	181	0.3%
Some other race	3,101	5.9%
Two or more races	1,975	3.7%

Source: U.S. Census Bureau American Community Survey, www.census.gov/.



Figure C-2 City of Commerce City Population Distribution by Age



Source: U.S. Census Bureau American Community Survey, www.census.gov/.

C.2.2 Housing and Economy

Table C-6 presents the 2017 American Community Survey estimates for types of housing units in the City.

Table C-6 Types and Total Amounts of Housing Units in Commerce City

Type of housing units	Total	Percentage
Total housing units	15,724	
1-unit detached	12,066	76.74%
1-unit attached	1,168	7.43%
2 units	328	2.09%
3 or 4 units	296	1.88%
5 to 9 units	394	2.51%
10 to 19 units	603	3.83%
20 or more units	403	2.56%
Mobile home	449	2.86%
Boat, RV, van, etc.	17	0.11%

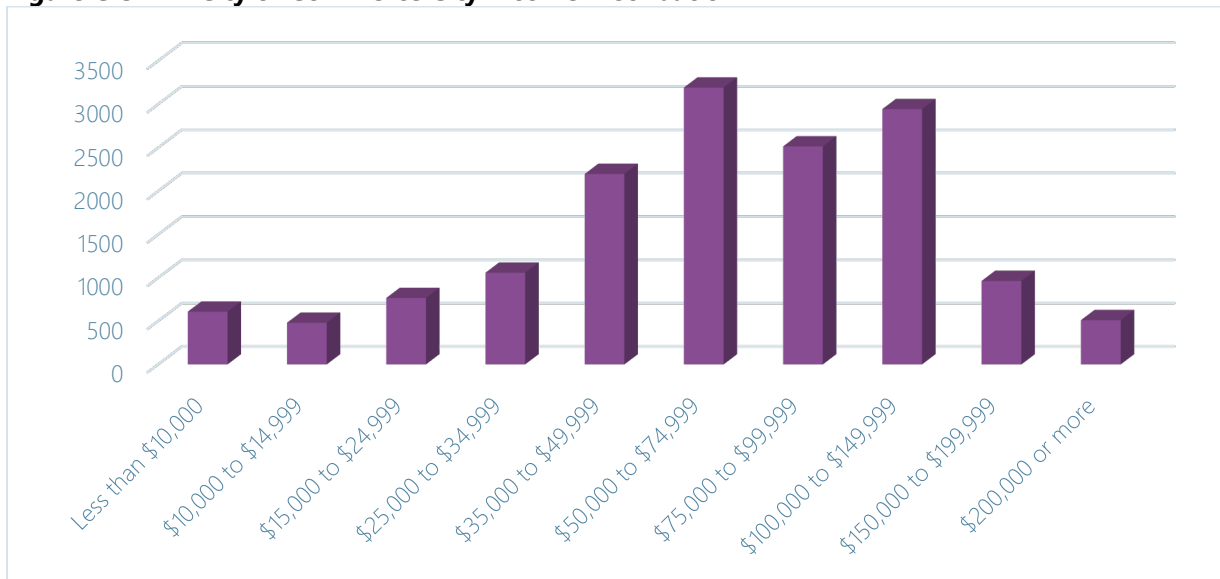
Source: U.S. Census Bureau American Community Survey, www.census.gov/.

As of 2017 the median home value in the City was \$258,500, a 37% increase since 2012. That value exceeds the average for Adams County (\$241,900) but remains slightly below the State average (\$286,100). Commerce City’s housing occupancy rate is 96.9%, above the County and State averages.

The City’s per capita income in 2017 was \$24,076, a 6.3% increase since 2012, showing that income has not kept up with rising housing costs. The City’s per capita income is below that of Adams County as a whole (\$27,487) and well below the average for Colorado (\$38,845). Figure C-3 shows the distribution of income in the City. Unemployment in 2017 was 3.10%, well below the County average of 5.10%.



Figure C-3 City of Commerce City Income Distribution



Source: U.S. Census Bureau American Community Survey, www.census.gov/.

C.3 Hazard Identification and Profiles

The City of Commerce City’s Local Planning Team (LPT) identified the hazards that affect the community and summarized their geographic location, probability of future occurrence, potential magnitude or severity, and overall significance specific to the City, as shown in Table C-7. Due to Commerce City’s proximity to Denver International Airport, the City’s LPT evaluated Plane Crash as a locally recognized hazard. However, the City considered plane crash to be of low overall significance, and it is not profiled further in this Plan.

Table C-7 City of Commerce City Hazard Significance

Hazard	Geographic Location	Probability of Future Occurrence	Magnitude/Severity (Extent)	Overall Significance
Hazardous Materials Incident	Significant	Highly Likely	Critical	High
Flood	Significant	Highly Likely	Limited	Medium
Winter Weather	Significant	Highly Likely	Limited	Medium
Thunderstorms	Significant	Highly Likely	Limited	Medium
Tornado/High Wind	Significant	Highly Likely	Limited	Medium
Lightning/Hail	Limited	Highly Likely	Negligible	Medium
Terrorism/Active Shooter	Limited	Likely	Negligible	Medium
Cyber Incident	Limited	Likely	Limited	Medium
Drought	Limited	Occasional	Negligible	Low
Earthquake	Limited	Occasional	Limited	Low
Subsidence	Limited	Likely	Negligible	Low
Wildfire	Limited	Occasional	Negligible	Low
Dam Failure/Incident	Limited	Occasional	Limited	Low
Plane Crash	Limited	Occasional	Catastrophic	Low



<p>Geographic Location Limited: Less than 10% of planning area Significant: 10-50% of planning area Extensive: 50-100% of planning area</p> <p>Probability of Future Occurrences Highly Likely: Near 100% chance of occurrence in next year or happens every year. Likely: Between 10 and 100% chance of occurrence in next year or has a recurrence interval of 10 years or less. Occasional: Between 1 and 10% chance of occurrence in the next year or has a recurrence interval of 11 to 100 years. Unlikely: Less than 1% chance of occurrence in next 100 years or has a recurrence interval of greater than every 100 years.</p>	<p>Magnitude/Severity (Extent) Catastrophic—More than 50% of property severely damaged; shutdown of facilities for more than 30 days; and/or multiple deaths Critical—25-50% of property severely damaged; shutdown of facilities for at least two weeks; and/or injuries and/or illnesses result in permanent disability Limited—10-25% of property severely damaged; shutdown of facilities for more than a week; and/or injuries/illnesses treatable do not result in permanent disability Negligible—Less than 10% of property severely damaged, shutdown of facilities and services for less than 24 hours; and/or injuries/illnesses treatable with first aid</p> <p>Significance Low: minimal potential impact Medium: moderate potential impact High: widespread potential impact</p>
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Information on past events can be found in in the hazard profiles in Section 4.3 of the Base Plan.

C.4 Vulnerability Assessment

The intent of this section is to assess Commerce City’s vulnerability separate from that of the County as a whole, which has already been assessed in Section 4.3 Vulnerability Assessment of the Base Plan. For most of the hazards listed in Table C-7, hazard and vulnerability do not vary significantly from the County overall, or vulnerability data is difficult to compile or estimate below county level. As a result, only Dam Failure/Incident, Flood, Hazardous Materials Incidents, and Wildfire are profiled separately in this annex.

For more information about how hazards affect Adams County, see Section 4 (Risk Assessment) of the Base Plan.

C.4.1 Community Asset Inventory

Table C-8 shows the total number of improved parcels, properties, and their improvement and content values for the City of Commerce City. Only those parcels with improvement values greater than \$0 or those classified as “exempt” were counted here and in the vulnerability assessments to follow. Counts and values are based on the latest county assessor’s data (as of September 2019), which was provided in GIS format. Content values were estimated as a percent of the improvement value here and under the hazard vulnerability assessment based on standard FEMA Hazus methodologies: 100% of the improvement value for commercial structures, and 50% for residential structures and exempt or vacant parcels.

Table C-8 City of Commerce City Property Exposure

Parcel Type	Improved Parcels	Improved Value	Content Value	Total Value
Agricultural	8	\$237,380	\$237,380	\$474,760
Commercial	774	\$192,343,440	\$192,343,440	\$384,686,880
Exempt	801	\$108,051,170	\$54,025,585	\$162,076,755
Industrial	146	\$45,032,900	\$67,549,350	\$112,582,250
Residential	16,129	\$307,626,510	\$153,813,255	\$461,439,765
State Assessed	100	\$0	\$0	\$0
TOTAL	17,958	\$653,291,400	\$467,969,010	\$1,121,260,410

Source: Adams County GIS/Assessor’s Office, Wood analysis.



Table C-9 lists summary information about the 273 critical facilities and other community assets identified by the City’s LPT as important to protect or that provide critical services in the event of a disaster. These facilities are mapped in Figure C-4. For additional information on the definitions behind each critical facility category, source, and other details refer to Section 4.3.2 of the Base Plan.

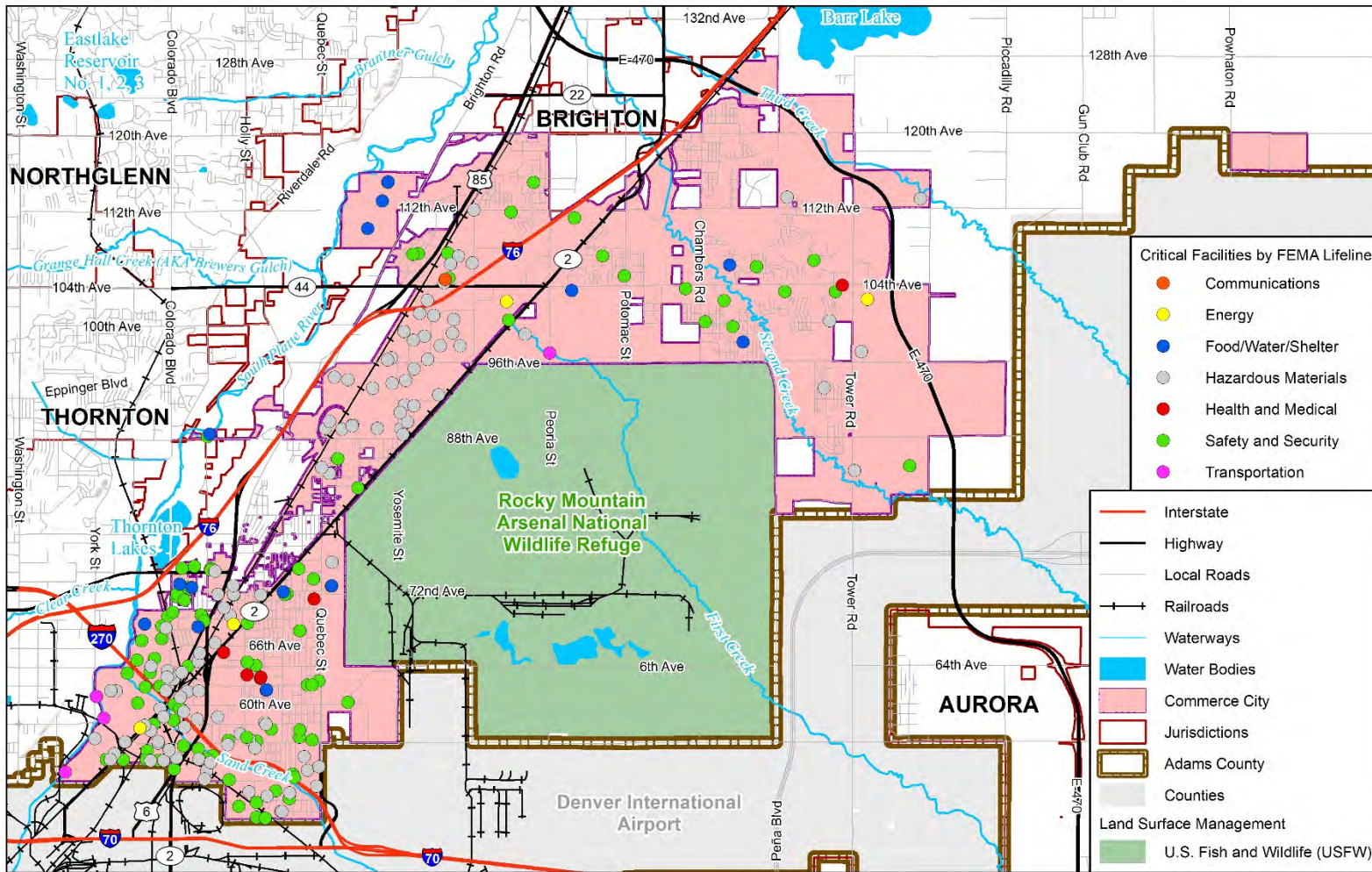
Table C-9 City of Commerce City Critical Facilities and Infrastructure Summary

FEMA Lifeline	Critical Facility Type	Total
Communications	Communication Towers	1
Energy	Electric Substations	4
Food/Water/Shelter	Emergency Shelters	7
	Gravel Mines/Ponds	7
Hazardous Material	Environmental Hazard Superfund	58
	Environmental Hazard Toxic Site	13
	HazMat RMP Sites	7
	HazMat Tier II Sites	72
Health and Medical	Dialysis Center	1
	Nursing Home	2
	Senior Housing	2
	Urgent Care	1
Safety and Security	Fire Stations	8
	Government Facilities	4
	Landfills/Govt. Services	54
	Police Station	1
	Schools	27
Transportation	Minor Bridge	1
	Pedestrian Bridge	3
TOTAL		273

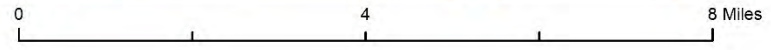
Source: Adams County GIS/Assessor’s Office, Wood analysis.



Figure C-4 City of Commerce City Critical Facilities and Infrastructure



wood.
Map compiled 1/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace, CO BLM,
ESRI World Terrain Map, HIFLD



C.4.2 Dam Failure/Incident Vulnerability

The LPT felt the City's risk from a dam failure or incident is Low, despite the presence of high hazard dams and the exposure of numerous critical facilities to the dam inundation zones, due to the low probability of future events.

Table C-10 (excerpted from Table 4-13 in the Base Plan) lists the primary dams in and immediately upstream of the City of Commerce City. These dams, along with their potential dam inundation extents are mapped in Figure C-5.

Table C-10 Dams of Concern for the City of Commerce City

Dam Name	Waterway	Dam Type	Storage Capacity (Acre-Feet)	Emergency Action Plan?	Primary Purpose	Hazard Rating
Cherokee NW	South Platte-Os	Earth	157	Not Required	Other	Low
Derby	South Platte River-Os	Earth	1,230	Yes	Irrigation	Significant
Dunes	South Platte River-Os	Earth	5,644	Yes	Water Supply	High
Havana Street Dam	South Platte River-Tr	Earth	397	Not Required	Flood Control	Low
La Dore	South Platte River-Os	Earth	510	Not Required	Water Supply	Low
Miller	South Platte-Tr	Earth	2,262	Not Required	Water Supply	Low
South Tani Reservoir	South Platte River-Os	Earth	7,530	Yes	Water Supply	High
Tigers	South Platte River-Os	Earth	2,974	Not Required	Water Supply	Low
Upper Derby	South Platte River-Tr	Earth	620	Yes	Water Supply	Significant

Source: USACE National Inventory of Dams 2018, Wood analysis

Table C-11 and Table C-12 calculate the people, property, and critical facilities potentially at risk of dam inundation. Based on this analysis, there are 3,732 people and 154 critical facilities potentially at risk of inundation from a dam failure or incident. Projected losses total more than \$106.8M, although it is important to note that any single dam incident would be unlikely to affect all parcels potentially at risk. A major dam failure could also impact several major transportation corridors, including I-270 and I-76, potentially disrupting traffic in the area.

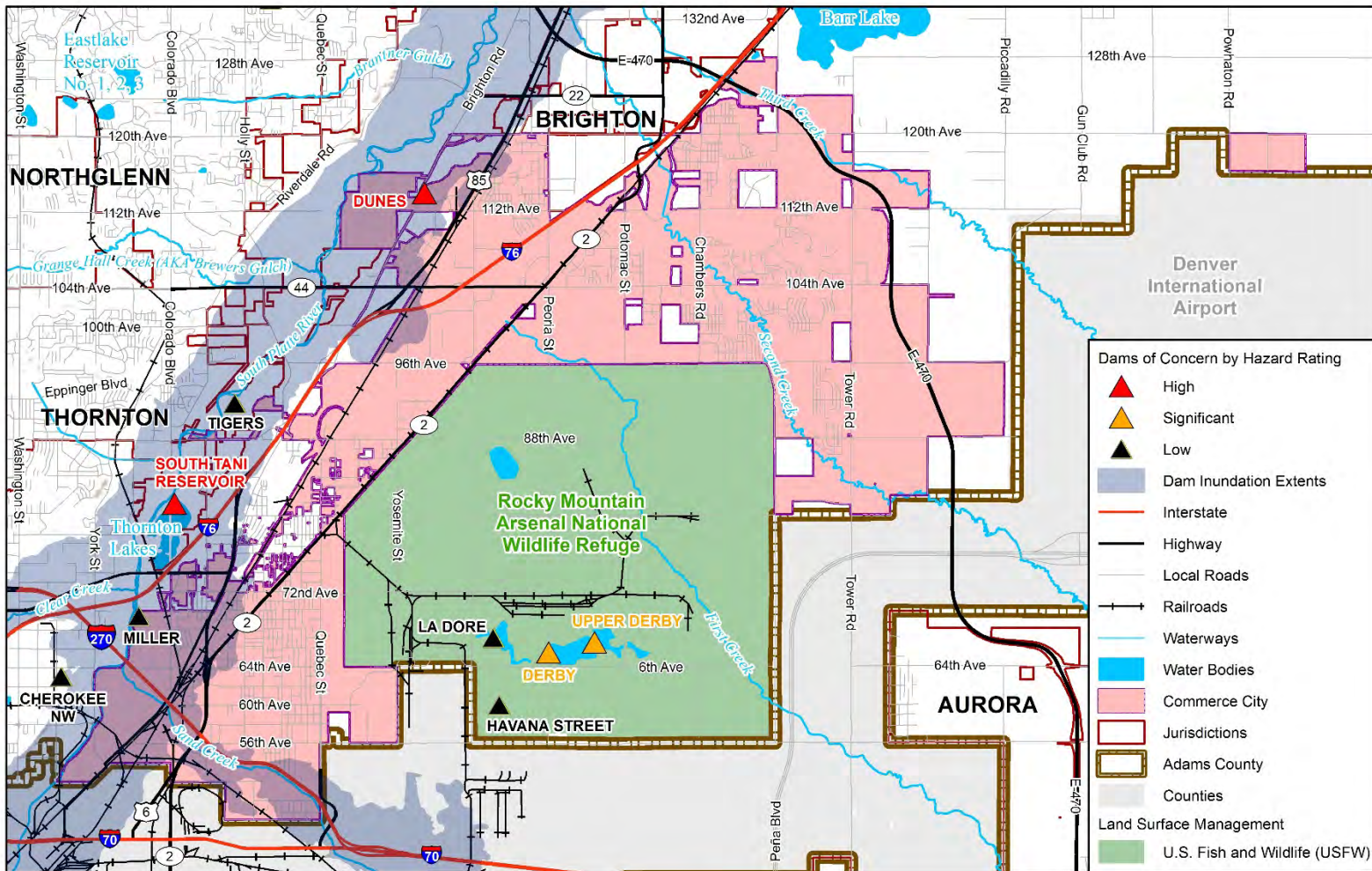
Table C-11 City of Commerce City Parcels and Exposure in Dam Inundation Zones

Parcel Type	Improved Parcels	Improved Value	Content Value	Total Value	Loss Estimate (50% of Total Value)	Population
Commercial	247	\$53,238,810	\$53,238,810	\$106,477,620	\$53,238,810	--
Exempt	159	\$23,907,880	\$11,953,940	\$35,861,820	\$17,930,910	--
Industrial	67	\$15,623,440	\$23,435,160	\$39,058,600	\$19,529,300	--
Residential	1,244	\$21,499,750	\$10,749,875	\$32,249,625	\$16,124,813	3,732
State Assessed	43	\$0	\$0	\$0	\$0	--
TOTAL	1,760	\$114,269,880	\$99,377,785	\$213,647,665	\$106,823,833	3,732

Source: Adams County GIS/Assessor's Office, Wood analysis.



Figure C-5 City of Commerce City Dams of Concern and Dam Inundation Zones



wood.
Map compiled 1/2020;
intended for planning purposes only.
Data Source: Adams County GIS,
Colorado Information Marketplace,
CO BLM, ESRI World Terrain Map,
NID 2018, Colorado Dam Safety

0 4 8 Miles



Table C-12 City of Commerce City Critical Facilities in Dam Inundation Zones

FEMA Lifeline	Critical Facility Type	Total
Energy	Electric Substations	2
Food/Water/Shelter	Emergency Shelters	3
	Gravel Mines/Ponds	5
Hazardous Material	Environmental Hazard Superfund	52
	Environmental Hazard Toxic Site	9
	HazMat RMP Sites	3
	HazMat Tier II Sites	27
Health and Medical	Nursing Home	1
Safety and Security	Fire Stations	1
	Government Facilities	3
	Landfills/Govt. Services	40
	Schools	5
Transportation	Pedestrian Bridge	3
TOTAL		154

Source: Adams County GIS/Assessor's Office, Wood analysis.

C.4.3 Flood Vulnerability

The LPC felt the City's flood risk is Medium, due to the lower numbers of people, property, and critical facilities potentially at risk compared to the County as a whole.

The major drainageway in the Commerce City area is the South Platte River, which runs along the City's west side. Major tributaries that cross through the City include Sand Creek, First Creek, Second Creek, and Third Creek. Thornton Lakes border the west side of the City.

Figure C-6 shows the mapped floodplains in the latest version of FEMA's National Flood Hazard Layer (NFHL). The NFHL maps both the 1% annual chance (100-year) and the 0.2% annual chance (500-year) flood events, as described in more detail in Section 4.3.5 of the Base Plan.

Table C-13 and Table C-14 summarize the people, property, and critical facilities located in the 100-year and 500-year floodplains. Based on this analysis, there are 9 people, 89 properties with a potential for \$3,086,443 worth of property damage, and 19 critical facilities potentially at risk of a 1% annual chance flood. For a 0.2% annual chance flood, that vulnerability increases by nearly \$760,000 worth of property damage and 10 critical facilities in addition to what would be affected by the 1% flood. As with Dam Failure/Incident above, several critical transportation corridors could be disrupted.

Table C-13 City of Commerce City Parcels and Exposure in Flood Zones

Flood Event	Parcel Type	Total Improved Parcels	Improved Value	Content Value	Total Value	Loss Estimate (25% of Total Value)	Population
100-year	Commercial	11	\$4,249,740	\$4,249,740	\$8,499,480	\$2,124,870	--
	Exempt	67	\$3,622,350	\$1,811,175	\$5,433,525	\$1,358,381	--
	Industrial	1	\$61,610	\$92,415	\$154,025	\$38,506	--
	Residential	3	\$46,610	\$23,305	\$69,915	\$17,479	9



Flood Event	Parcel Type	Total Improved Parcels	Improved Value	Content Value	Total Value	Loss Estimate (25% of Total Value)	Population
	State Assessed	7	\$0	\$0	\$0	\$0	--
100-year Total		89	\$7,980,310	\$6,176,635	\$14,156,945	\$3,539,236	9
500-year	Commercial	9	\$1,149,720	\$1,149,720	\$2,299,440	\$574,860	--
	Exempt	5	\$0	--	\$0	\$0	--
	Industrial	3	\$296,110	\$444,165	\$740,275	\$185,069	--
	State Assessed	1	\$0	\$0	\$0	\$0	--
500-year Total		18	\$1,445,830	\$1,593,885	\$3,039,715	\$759,929	--
GRAND TOTAL		107	\$9,426,140	\$7,770,520	\$17,196,660	\$4,229,165	9

Source: Adams County GIS/Assessor's Office, Wood analysis.

Table C-14 City of Brighton Critical Facilities in Flood Zones

Flood Event	FEMA Lifeline	Critical Facility Type	Total
100-year	Food/Water/Shelter	Gravel Mines/Ponds	5
		Hazardous Material	Environmental Hazard Toxic Site
	HazMat Tier II Sites		2
	Safety and Security	Landfills/Govt. Services	7
		Schools	1
	Transportation	Pedestrian Bridge	3
100-Year Total			19
500yr	Hazardous Material	Environmental Hazard Toxic Site	1
		HazMat RMP Sites	1
	Safety and Security	HazMat Tier II Sites	4
		Landfills/Govt. Services	4
500-Year Total			10
GRAND TOTAL			29

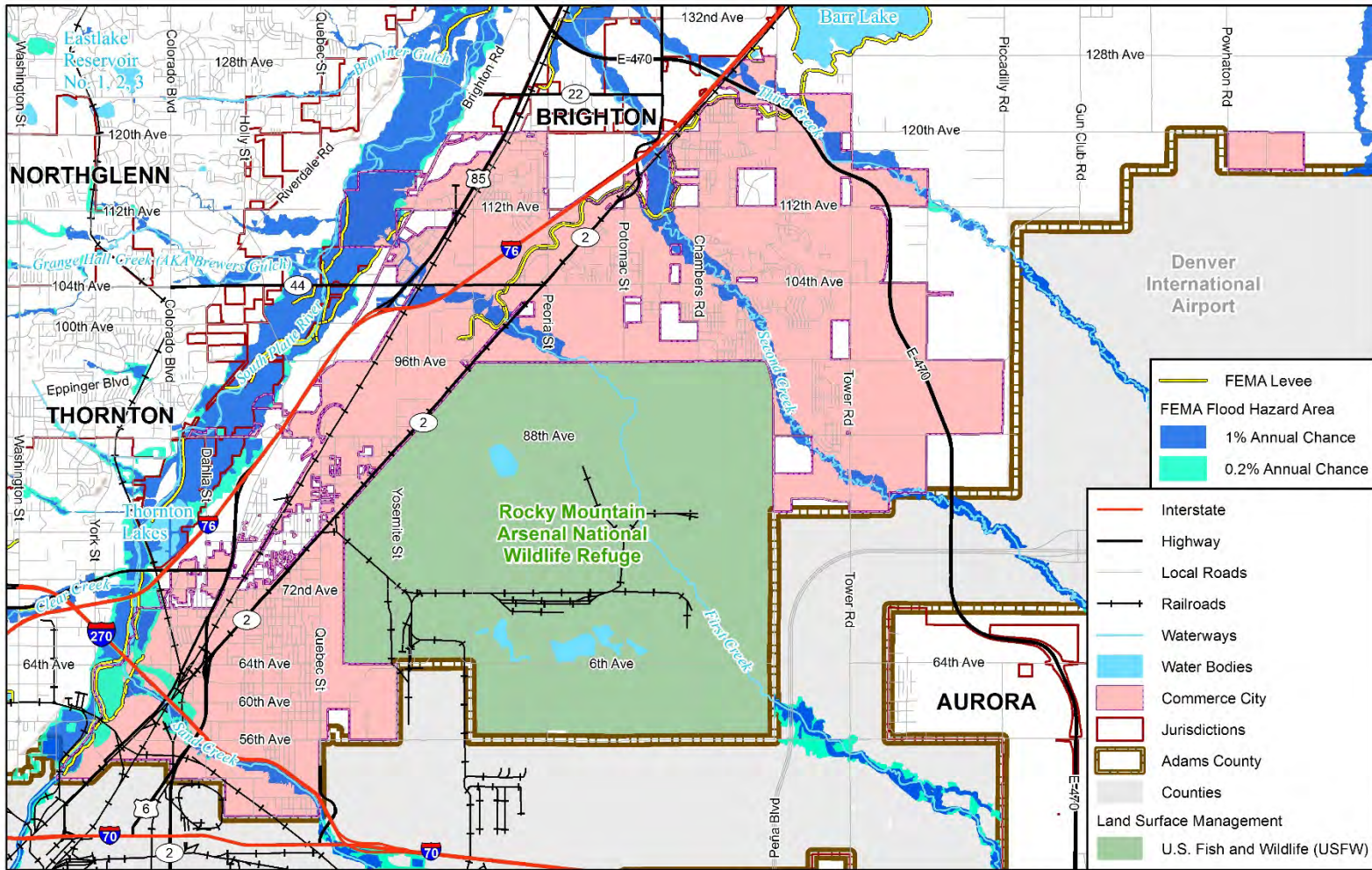
Source: Adams County GIS/Assessor's Office, Wood analysis.

National Flood Insurance Program Policy Analysis

Commerce City has participated in the National Flood Insurance Program (NFIP) since February 15, 1978. NFIP insurance data shows that as of September 2019, there were 20 flood insurance policies in force in the City with \$5,802,000 of coverage, but there have been no historical claims for flood losses. There are no repetitive or severe repetitive loss structures as defined by the NFIP as of September 2019. The Commerce City does not participate in the Community Rating System (CRS) program.



Figure C-6 FEMA Special Flood Hazard Areas in the City of Commerce City



wood.
Map compiled 1/2020;
intended for planning purposes only.
Data Source: Adams County GIS, Colorado
Information Marketplace, CO BLM,
ESRI World Terrain Map, FEMA NFHL



C.4.4 Hazardous Materials Incident

The LPT felt Commerce City’s risk from hazardous materials is High, due to the large number of hazardous materials facilities and transportation routes in the City.

The National Response Center (NRC) records 170 hazardous materials incidents in or near Commerce City from 1990 through 2018; as noted in Section 5.3.13 of the Base Plan, this likely excludes a large number of unreported minor spills. This constitutes 20% of the 832 hazardous materials incidents reported countywide during the same time frame, and averages out to roughly 5.9 incidents per year. As noted in Section 5.3.13, only around 6% of reported hazardous materials incidents result in injuries, fatalities, or evacuations.

As of January 2020, there are 72 EPA Tier II facilities and 7 Risk Management Plan (RMP) facilities located in the City.

C.4.5 Wildfire Vulnerability

Figure C-7 shows the Wildland Urban Interface (WUI) areas in and near the City of Commerce City by medium and low density; the City does not have any high density WUI areas.

Table C-15 calculates the people and property located in the low and medium density WUI areas. There are no critical facilities exposed in the low or medium density WUI areas. Based on this analysis, there are 54 people and \$495,000 worth of property damage in medium density WUI areas. In low density WUI areas there are 306 people and \$3.3M worth potential property damage.

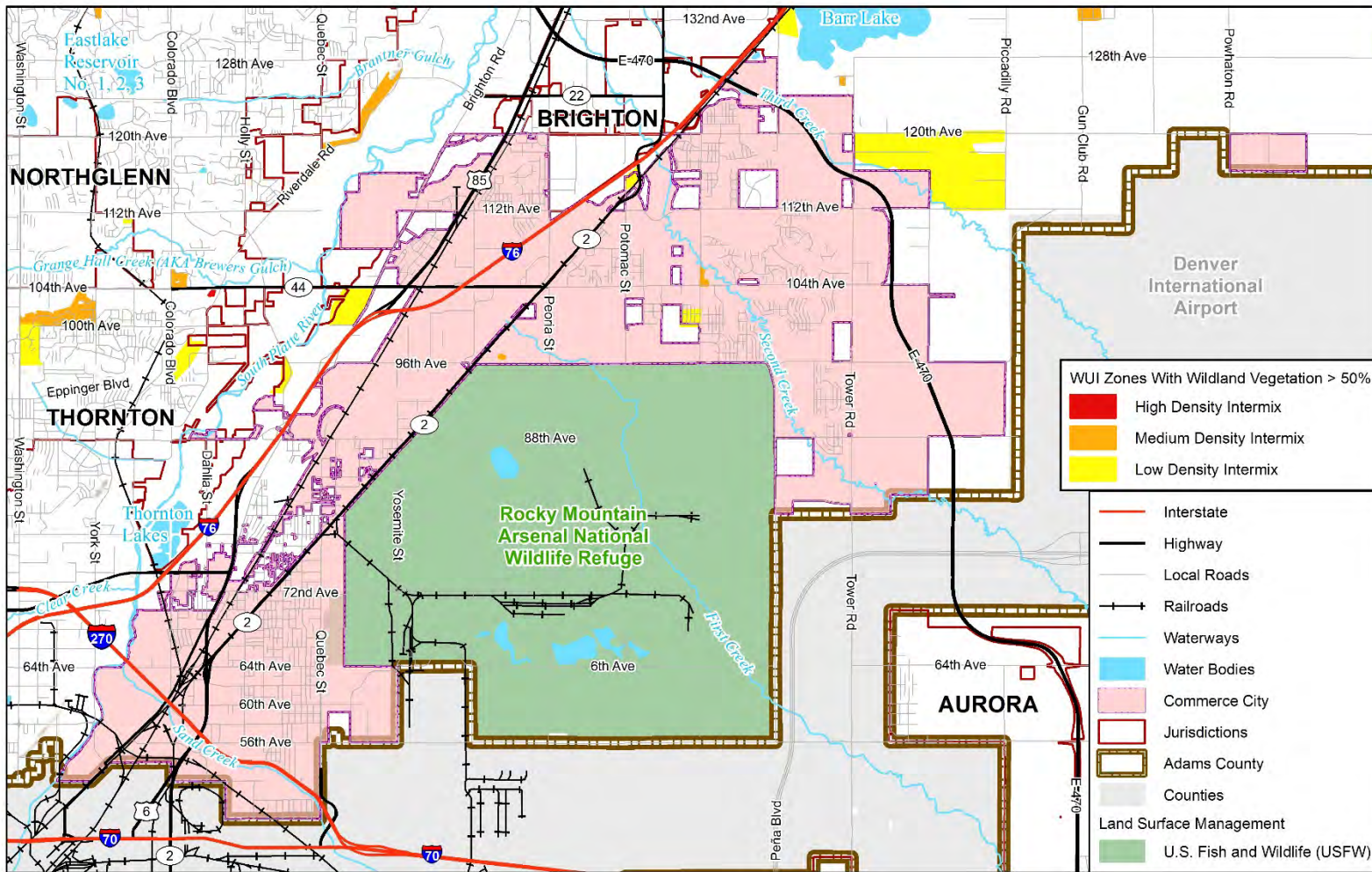
Table C-15 City of Commerce City Parcels and Exposure in Wildland Urban Interface (WUI) Zones

WUI Zone	Parcel Type	Improved Parcels	Improved Value	Content Value	Total Value	Population
Low Density	Exempt	3	\$0	--	\$0	--
	Residential	102	\$2,201,930	\$1,100,965	\$3,302,895	306
Medium Density	Residential	18	\$330,360	\$165,180	\$495,540	54
TOTAL		123	\$2,532,290	\$1,266,145	\$3,798,435	360

Source: Adams County GIS/Assessor’s Office, Wood analysis.



Figure C-7 Wildland Urban Interface (WUI) Intermix Areas in the City of Commerce City



Map compiled 1/2020;
intended for planning purposes only.
Data Source: Adams County GIS, CO
Information Marketplace, CO BLM,
ESRI World Terrain Map, Adams County
2012 Comprehensive Plan

0 4 8 Miles



C.4.6 Growth and Development Trends

Commerce City is one of the fastest growing cities in Colorado. According to the Commerce City 2019 Economic Profile, the City is projected to reach a population of 78,655 by 2035.

C.5 Capability Assessment

This section profiles the programs and policies currently in use by the City of Commerce City to reduce hazard impacts or that could be used to implement hazard mitigation activities. The capabilities assessment is divided into five sections: planning and regulatory mitigation capabilities, administrative and technical mitigation capabilities, fiscal mitigation capabilities, past and ongoing mitigation outreach, and other mitigation efforts.

C.5.1 Planning and Regulatory Mitigation Capabilities

Table C-16 lists planning and land management tools typically used by local jurisdictions to implement hazard mitigation activities and indicates those that are in place in Commerce City.

Table C-16 City of Commerce City Planning and Regulatory Mitigation Capabilities

Regulatory Tool (ordinance, code, plans)	Yes/No	Comments
Comprehensive Plan	Yes	
Zoning ordinance	Yes	Land Development Plan
Subdivision ordinance	Yes	
Growth management ordinance	Yes	Identifies boundaries where we can grow
Floodplain ordinance	Yes	
Other special purpose ordinance		Stormwater in Public Works
Building codes	Yes	IBC 2018 edition
Fire department ISO rating	Yes	Rating of 2, Fire District not city owned
Erosion or sediment control program	Yes	Public Works Department
Storm water management program	Yes	Public Works Department
Site plan review requirements	Yes	Community Development Department
Capital improvement plan	Yes	
Economic development plan	Yes	Economic Development Department
Local emergency operations plan	Yes	Chapter 24 of the municipal code
Other special plans	Yes	Master Parks Plan and Transportation Plan
Flood insurance study or other engineering study for streams	Yes	Partnership with Mile High Flood District
Elevation certificates (for floodplain development)	Yes	Public Works Department

City of Commerce City C3 Vision Comprehensive Plan

The C3 Vision Plan sets the policy foundation for the city's decision-making process and regulatory framework and address both current and long-term (2035 and beyond) needs. The plan is designed to guide the growth and development of the city and recommend programs for services and infrastructure. Following are the guiding principles that the City of Commerce City established in their Comprehensive Plan.



- Land Use and Growth: Grow Commerce City in a balanced and compact pattern of neighborhoods and commerce centers, where residents have access to employment, services, and shopping. Promote infill and phase new growth to avoid inefficient and costly leapfrog development.
- Economic Development: Maintain a strong employment base; help create a jobs/housing balance; define appropriate locations for a range of industry and businesses (including green businesses); and be a home for major corporations.
- Fiscal Stability: Continue as a fiscally stable city by fortifying revenues, while efficiently maintaining and providing services and infrastructure.
- Housing/Neighborhoods: Provide multiple types of housing serving a range of current and future residents and incomes in vibrant neighborhoods where people want to live.
- Redevelopment/Reinvestment: Promote new centers, while maintaining the integrity of existing districts by continually renewing and reinvesting.
- Transportation: Ensure a quality community by providing efficient, effective, and varied modes of transportation that integrate and connect neighborhoods, the community, and the region.
- Safety and Wellness: Increase the health and well-being of residents through healthy living, access to medical facilities, and public safety and hazard planning.
- Parks, Open Space/Recreation: Provide ample and well-distributed parks and recreation facilities, and a connected system of trails and open space, to provide for outdoor recreation, relaxation, and rejuvenation and to protect views.
- Facilities and Infrastructure: Ensure adequate and efficient public facilities and infrastructure for current and future residents and businesses.
- Appearance and Design: Enhance the positive image of the city at all gateways, along corridors, and in neighborhoods and commercial districts.
- Cultural/Tourism: Become a destination for tourism and visitors, drawing people and businesses to arts, history, culture, sports, commerce, and other attractions.
- Environmental Conservation/Stewardship: Increase recycling, conservation, and the use of renewable energy sources, while reducing energy and resource use overall.

Several of Commerce City's guiding principles, including Safety and Wellness, Facilities and Infrastructure, and Environmental Conservation/Stewardship, tie directly hazard mitigation and offer opportunities to integrate the goals of this hazard mitigation plan. Beyond these direct links, the majority of Commerce City's guiding principles and overall vision will be strengthened by ensuring the City is resilient to hazards.

Capital Improvement and Preservation Plan (CIPP)

The City of Commerce City's CIPP helps construct and maintain public assets that support the City's long-term vision. Capital projects include:

- Traditional Projects: Projects that add new or expanded assets to the city's inventory, such as city buildings, roads, parks, and recreation amenities.
- Operational Projects: Projects that add or improve needed public assets to address growth or deficiencies, such as traffic signals, bridge replacements, emergency warning towers, sidewalk connections, drainage and stormwater improvements, studies, or parks/road enhancements.
- Preservation Projects: Projects that ensure long-term asset maintenance, such as repaving or replacing roads, curbs and gutters, and repairing golf and park amenities.

Projects in the City of Commerce City's CIPP include investments that can also support the City's hazard mitigation goals, including drainage improvements, infrastructure maintenance, and critical facility enhancements.



C.5.2 Administrative and Technical Mitigation Capabilities

Table C-17 identifies the personnel responsible for activities related to mitigation and loss prevention in Commerce City.

Table C-17 City of Commerce City Administrative and Technical Mitigation Capabilities

Personnel Resources	Yes/No	Department/Position
Planner/engineer with knowledge of land development/land management practices	Yes	Community Development and Public Works Departments
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	Community Development and Public Works Departments
Planner/engineer/scientist with an understanding of natural hazards	No	
Personnel skilled in GIS	Yes	IT Department
Full time building official	Yes	Community Development Department
Floodplain manager	Yes	Public Works
Emergency manager	Yes	Police Department
Grant writer	No	
GIS Data Resources (Hazard areas, critical facilities, land use, building footprints, etc.)	Yes	In IT
Warning Systems/Services (Reverse 911, cable override, outdoor warning signals)	Yes	Adcom = CodeRed, Commerce City = Outdoor Warning System

C.5.3 Fiscal Mitigation Capabilities

Table C-18 identifies financial tools or resources that Commerce City could potentially use to help fund mitigation activities.

Table C-18 City of Commerce City Fiscal Mitigation Capabilities

Financial Resources	Accessible / Eligible to Use	Has Been Used in the Past	Comments
Community Development Block Grant	Yes	No	Commerce City began receiving CDBG funds directly around 2017; in 2020, the city received a CARES Act CDBG grant, which is largely being used for mortgage and rental assistance in response to COVID-19
Capital Improvements Project funding	Yes	No	
Authority to levy taxes for specific purposes	Yes	No	The city has healthy reserve levels to rely on and has not had to levy additional taxes or incur additional debt
Fees for water, sewer, gas, or electric services	Yes	No	The city does not provide water, sewer, gas, or electric services directly; thus, there are no fees charged by the city for these services
Impact fees for new development	Yes	No	
Incur debt through general obligation bonds	Yes	No	The city has healthy reserve levels to rely on and has not had to levy additional taxes or incur additional debt



Financial Resources	Accessible / Eligible to Use	Has Been Used in the Past	Comments
Incur debt through special tax bonds	Yes	No	The city has healthy reserve levels to rely on and has not had to levy additional taxes or incur additional debt
Incur debt through private activities	No	No	The city has healthy reserve levels to rely on and has not had to levy additional taxes or incur additional debt
Withhold spending in hazard prone areas	No	No	

C.5.4 Past and Ongoing Mitigation Efforts

The City is currently updating its Master Plan and Storm Water Standards with the Mile High Flood District.

Public Education and Outreach:

The City of Commerce City Emergency Manager conducts disaster preparedness training through the CERT program to encourage public awareness and preparedness and increase public involvement in emergency response. The CERT program supports local response capability by training community volunteers about the hazards they face and ways to prepare for them. Commerce City does not have any local citizen groups that communicate hazard risks. The City does not currently participate in Firewise or StormReady.

C.5.5 Opportunities for Enhancement

Based on the capability assessment, Commerce City has several existing mechanisms in place that already help to mitigate hazards, including numerous planning tools and many available funding mechanisms. There are also opportunities for the City to expand or improve on its capability to further protect the community. One capability enhancement would be to consider joining the CRS, which would require enhancements to the City’s floodplain management program; however, the low number and value of flood insurance policies in Commerce City means this would not significantly affect flood insurance affordability in the City.

C.6 Mitigation Goals and Objectives

The City of Commerce City has adopted the hazard mitigation goals and objectives developed by the HMPC and described in Section 6.2 of the Base Plan.

C.7 Mitigation Actions

The local planning team identified and prioritized the following mitigation actions for Commerce City based on the risk assessment. Information on how each action will be implemented and administered, such as ideas for implementation, responsible agency, potential funding, estimated cost, and timeline also are included. These actions are also captured in Table 6-2 in the Base Plan.



Table C-19 City of Commerce City 2020 Mitigation Action Plan

ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
C C- 1	2	Multi-Hazard: Winter Weather, Thunderstorm, Tornado, Flood, High Wind	Protect critical infrastructure from power outages with emergency generators: Retrofit public government buildings with back-up emergency generators. Commerce City has three critical buildings that don't have emergency back-up power supply. In the event of a power outage, these critical buildings will not be operational. The buildings are two recreation centers that have been designated as emergency shelters and the municipal service center which maintains the city's fleet vehicles and equipment. In the past, natural disasters such as blizzards created major power outages; therefore, the city could not use their designated emergency shelters facilities and also hinder fleet support services. The lack of capability of maintaining operational readiness of emergency shelters and fleet support services during power outages as the potential of creating hardships in providing emergency sheltering and fleet support services.	City of Commerce City Public Work / Commerce City OEM	\$500,000	HMA Grants with General Budget Funds	High	2021-2023	New in 2020. This project will help maintain operational readiness of critical infrastructure to perform mission essential functions such as emergency shelter operations and sustainment of Fleet services.
C C- 2	2	Multi-Hazard: Winter Weather, Thunderstorm, Tornado, Flood, High Wind	Sustain mobile fleet by providing internal fuel storage dispensing capability: Install a permanent fuel storage/dispensing facility. Commerce City doesn't have internal fuel storage/dispensing capability to maintain the city's fleet vehicles. Currently the city uses public retail vendors such as gas stations to provide fuel for its vehicles. In the events of blizzards, major flooding and power outages public gas stations maybe be closed or out of fuel which will severely decrease the city's capability in maintaining their fleet and	City of Commerce City Public Work / Commerce City OEM	\$225,000	HMA Grants with General Budget Funds	High	2021-2022	New in 2020. This project will help maintain operational readiness and sustainment of city's fleet and equipment.



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
			operational readiness. Two critical fleet sections are first responder vehicles and snowplow trucks which if these vehicles don't have fuel will create a public safety emergency.						
C-C-3		Flood	Fairfax Park Drainage Reconstruction: The first phase of this project is a study through Mile High Flood District to study the drainage for the Core part of the City and to determine what infrastructure improvements are needed to better drain the Fairfax Park/Regional Detention Pond. The next phase of the project will be to replace the outfall pipe from Fairfax Park to the South Platter River. We anticipate that this project will be done over a three-year period. The majority of the storm water from the historic portion of Commerce City drains to Fairfax Park. Fairfax Park functions as a regional drainage facility and as a regional park for the City. The outfall system from Fairfax Park to the South Platte is undersized, the pond frequently overtops, and the flooding negatively affects the surrounding neighborhood. In addition, during large storm events it takes several days for Fairfax to drain. This affects the use of the site as a regional park.	City of Commerce City Public Work / Commerce City OEM	\$4,350,000	Mitigation grant funds, Mile High Flood District funds with general budget funds	High	2021-2024	New in 2020. Benefits: Maintain operational readiness of critical infrastructure to perform mission essential functions such as maintaining emergency routes during major flood events and sustainment of storm sewer infrastructure.



C.7.1 Continued Compliance with the National Flood Insurance Program

Recognizing the importance of the National Flood Insurance Program (NFIP) in mitigating flood losses, the City of Commerce City will place an emphasis on continued compliance with the NFIP. As an NFIP participant, the City has and will continue to make every effort to remain in good standing with NFIP. This includes continuing to comply with the NFIP's standards for updating and adopting floodplain maps and maintaining and updating the floodplain zoning ordinance as well as review of any potential development in special flood hazard areas.

C.8 Implementation and Maintenance

This section provides an overview of the City's strategy for plan implementation and maintenance, and outlines the method and schedule for monitoring, evaluating, and updating the plan. The section also discusses incorporating the plan into existing planning mechanisms and how to ensure continued public involvement in mitigation planning.

C.8.1 Incorporation into Existing Planning Mechanisms

The information contained within this plan, including results from the Vulnerability Assessment, and the Mitigation Strategy will be used by the City to help inform updates and the development of local plans, programs and policies, as described in Section 7.3 of the Base Plan.

The City of Commerce City was not included in the 2014 Adams County Hazard Mitigation Plan, and as such did not incorporate elements of that plan into other planning mechanisms.

C.8.2 Monitoring, Evaluation and Updating the Plan

The City Emergency Manager will be responsible for monitoring, evaluating, and updating this plan using the process outlined in Section 7 of the Base Plan. The City will continue to involve the public in mitigation, as described in Section 7.4 of the Base Plan. The City Emergency Manager will be responsible for representing the City on the Adams County HMPC, and for coordination with City staff and departments during plan updates. The City will review this annex regularly and will update it every five years in accordance with the Disaster Mitigation Act Requirements.



D Denver Water

This Annex consolidates information specific to Denver Water and goes into more detail about risk, capabilities, and mitigation strategies unique to that jurisdiction.

D.1 Mitigation Planning History and 2020 Update Process

Denver Water is a new participant to the Adams County Hazard Mitigation Plan. Denver Water has several facilities located in Adams County and made an effort to be involved in the County’s Plan update process in 2020. Denver Water is committed to participating in the 2020 Adams County plan update and met all participation requirements. Denver Water participated in the County’s multi-jurisdictional Hazard Mitigation Planning Committee (HMPC), and also brought together a Local Planning Team (LPT) to help collect data, identify and prioritize Denver Water’s mitigation actions and implementation strategies, and review annex drafts.

Table D.1 Denver Water Local Planning Team

Department or Stakeholder	Title
Operations	Manager of Emergency Management
Operations	Emergency Management Specialist
Engineering	Engineer

More details on the planning process and participating jurisdictions, service districts and stakeholders can be found in Section 3 of the Base Plan, along with the public’s role during the 2020 update.

D.2 Community Profile

Denver Water provides water services to 1.4 million people in the City and County of Denver, Adams County and many surrounding suburbs. Established in 1918, it is Colorado’s oldest and largest water utility, a public agency governed by a five-member Board of Water Commissioners, and funded by water rates and new tap fees, not taxes.

D.3 Hazard Identification and Profiles

Denver Water’s Local Planning Team (LPT) identified the hazards that affect the community and summarized their geographic location, probability of future occurrence, potential magnitude or severity, and overall significance specific to Denver Water as shown in Table D.2. There are no hazards that are unique to Denver Water.



Table D.2 Denver Water Hazard Significance

Hazard	Geographic Location	Probability of Future Occurrence	Magnitude/Severity (Extent)	Overall Significance
Dam Failure/Incident	Limited	Unlikely	Critical	Medium
Wildfire	Extensive	Highly Likely	Limited	Medium
Flood	Limited	Likely	Limited	Medium
Terrorism/Active Shooter	Limited	Likely	Limited	Medium
Drought	Extensive	Likely	Negligible	Medium
Thunderstorms	Limited	Highly Likely	Limited	Low
Tornado/Damaging Wind	Limited	Highly Likely	Negligible	Low
Winter Weather	Limited	Highly Likely	Negligible	Low
Hazardous Materials Incident	Limited	Likely	Negligible	Low
Earthquake	Limited	Occasional	Limited	Low
Subsidence	Limited	Unlikely	Limited	Low
Cyber Incident	Limited	Likely	Limited	Low
Geographic Location Limited: Less than 10% of planning area Significant: 10-50% of planning area Extensive: 50-100% of planning area Probability of Future Occurrences Highly Likely: Near 100% chance of occurrence in next year or happens every year. Likely: Between 10 and 100% chance of occurrence in next year or has a recurrence interval of 10 years or less. Occasional: Between 1 and 10% chance of occurrence in the next year or has a recurrence interval of 11 to 100 years. Unlikely: Less than 1% chance of occurrence in next 100 years or has a recurrence interval of greater than every 100 years.		Magnitude/Severity (Extent) Catastrophic—More than 50% of property severely damaged; shutdown of facilities for more than 30 days; and/or multiple deaths Critical—25-50% of property severely damaged; shutdown of facilities for at least two weeks; and/or injuries and/or illnesses result in permanent disability Limited—10-25% of property severely damaged; shutdown of facilities for more than a week; and/or injuries/illnesses treatable do not result in permanent disability Negligible—Less than 10% of property severely damaged, shutdown of facilities and services for less than 24 hours; and/or injuries/illnesses treatable with first aid Significance Low: minimal potential impact Medium: moderate potential impact High: widespread potential impact		

Information on past events can be found in in the hazard profiles in Section 4.3 of the Base Plan.

D.4 Vulnerability Assessment

The intent of this section is to assess Denver Water’s vulnerability separate from that of the County as a whole, which has already been assessed in Section 4.3 Vulnerability Assessment of the Base Plan. For most of the hazards listed in Table D.2, hazard and vulnerability do not vary significantly from the County overall, or vulnerability data is difficult to compile or estimate below county level. As a result, only Dam Failure/Incident, Flood, and Drought are profiled separately in this annex. While wildfire is a medium significance this is due to the essential facilities Denver Water has in the high country. For the purpose of this plan, only Denver Water properties and facilities that that lie specifically within Adams County have been assessed for vulnerability data.



For more information about how hazards affect Adams County, see Section 4 (Risk Assessment) of the Base Plan.

D.4.1 Community Asset Inventory

Table D.3 and Figure D.1 show critical facilities and other community assets identified by Denver Water as important to protect in the event of a disaster.

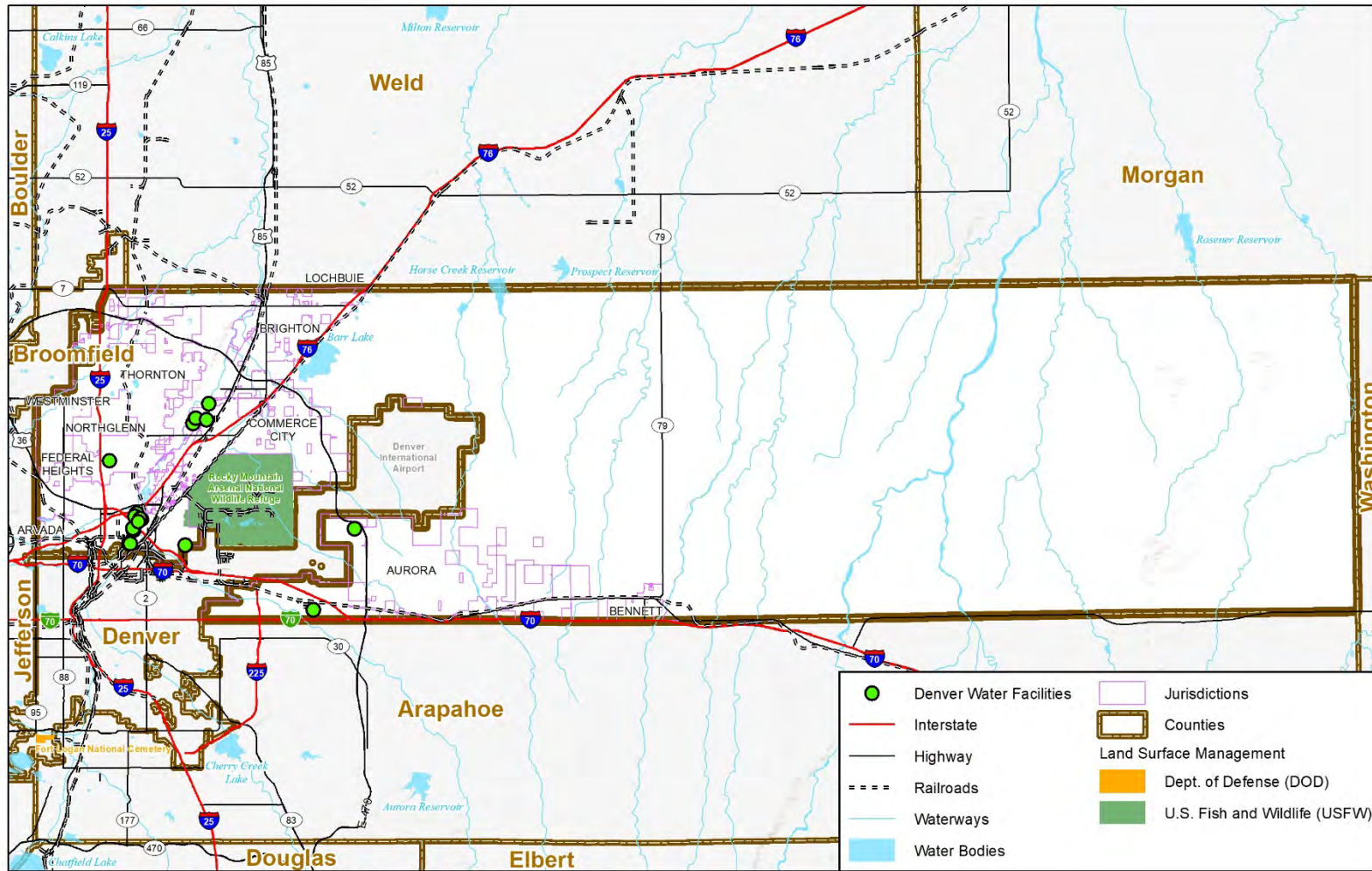
Table D.3 Denver Water – Critical Facilities and Other Community Assets

Type of Facility	Facility Name
Canal	High Line Canal Sand Creek
Dam and Res. 2,000 ac-ft.	Dunes Dam & Reservoir
	Miller Dam & Pond
Decentralization Station	64th Ave Decentralization Station
Pond House	Bambei-Walker (Miller) Pond House
Pump Station	56th Avenue Pump Station
	64th Ave Pump Station
	Broomfield Pump Station
	Metro Burlington Ditch Pump Station
	Recycling Plant Distribution Pump Station
	Recycling Plant Source Water Pump Station
	Welby Pump Station
Reservoir	Bambei-Walker (Miller) Reservoir
	Cat Reservoir
	Hazletine Reservoir
	Howe-Haller A Reservoir
	Howe-Haller B Reservoir
	Tanaube Reservoir
Treated Reservoir – 10MG	Broomfield Treated Reservoir
	56th Avenue Treated Reservoir
Treated Reservoir – 15MG	64th Ave Treated Reservoir
	Recycling Plant

Source: Denver Water



Figure D.1 Denver Water Facilities in Adams County



Map compiled 8/2020;
intended for planning purposes only.
Data Source: Adams County GIS, Colorado
Information Marketplace, CO BLM, ESRI
World Terrain Map, Denver Water

0 15 30 Miles



D.4.2 Dam Failure/Incident Vulnerability

Denver Water Dams that Pose a Potential Risk to Adams County

Denver Water operates two dams in Adams County, detailed in the table below. Of the two dams only the Dunes dam is classified as a high hazard dam with the potential to impact the western portion of Adams County. The likelihood and impacts of an incident at Dunes Dam are discussed in Section 4.3.2. Failure of the dam is unlikely but would have extensive consequences both in terms of economic losses to Denver Water, as well as the loss of the water resource for a period of time. Outside of potential effects to Denver Water infrastructure, failure of the dam would also result in damage to downstream communities and property and potential loss of life.

Table D.4 Denver Water Dams Located in Adams County

Dam Name	Waterway	Dam Type	Storage Capacity (Acre-Feet)	Emergency Action Plan?	Primary Purpose	Hazard Rating
Dunes	South Platte River	Earth	5,644	Yes	Water Supply	High
Miller	South Platte-Tr	Earth	2,262	Not Required	Water Supply	Low

Source: USACE National Inventory of Dams 2018, Wood analysis

Denver Water Facilities Vulnerable to Dam Failure/Incidents in Adams County

In addition to the Dunes Dam posing a risk to other community facilities in the County, there are nine dams of concern located in or upstream of Adams County that pose a potential risk to Denver Water owned and operated facilities. Denver Water's Dunes Dam is one of the facilities that is vulnerable to a dam failure/incident event from other dams in the county. Depending on the type and severity of the incident, this could result in water quality impacts and possibly lead to spillway flows or concerns for the integrity of the Dunes Dam. The following tables (Table D.5 and Table D.6) provide details on the dams of concern for Denver Water facilities within Adams County and the specific facilities located within the potential inundation areas.

Table D.5 Dams of Concern for Denver Water Facilities within the Adams County

Dam Name	Waterway	Dam Type	Storage Capacity (Acre-Feet)	Emergency Action Plan?	Primary Purpose	Hazard Rating
Bear Creek	Bear Creek	Earth	75,000	Yes	Flood Control	High
Blunn	Ralston Creek	Earth	7,839	Yes	Recreation	High
Chatfield	South Platte River	Earth	355,000	Yes	Flood Control	High
Cherry Creek	Cherry Creek	Earth	134,470	Yes	Flood Control	High
Dunes	South Platte River	Earth	5,644	Yes	Water Supply	High
Quincy	West Toll Gate Creek	Earth	4,560	Yes	Recreation	High
Ralston	Ralston Creek	Earth	15,900	Yes	Water Supply	High
Spring Gulch	Spring Gulch	Earth	1,752	Yes	Irrigation	High
Westerly Creek	Westerly Creek	Earth	9,300	Yes	Flood Control	High

Source: USACE National Inventory of Dams 2018, Wood analysis



Table D.6 Denver Water Facilities within the Dam Inundation Areas

Type of Facility	Facility Name	Dams of Concern
Dam and Res. - 2000 ac-ft	Dunes Dam & Reservoir	Bear Creek, Chatfield, Cherry Creek
	Miller Dam & Pond	Bear Creek, Blunn, Chatfield, Cherry Creek, Quincy, Ralston, Spring Gulch, Westerly Creek
Pond House	Bambei-Walker (Miller) Pond House	Bear Creek, Blunn, Chatfield, Cherry Creek, Ralston
Pump Station	Metro Burlington Ditch Pump Station	Bear Creek, Chatfield, Cherry Creek, Quincy, Spring Gulch
	Recycling Plant Distribution Pump Station	Bear Creek, Chatfield, Cherry Creek, Quincy, Westerly Creek
	Recycling Plant Source Water Pump Station	Bear Creek, Chatfield, Cherry Creek, Spring Gulch
	Welby Pump Station	Bear Creek, Blunn, Chatfield, Cherry Creek, Quincy, Ralston, Spring Gulch
Reservoir	Bambei-Walker (Miller) Reservoir	Bear Creek, Blunn, Chatfield, Cherry Creek, Quincy, Ralston, Spring Gulch, Westerly Creek
	Cat Reservoir	Bear Creek, Chatfield, Cherry Creek, Quincy, Ralston, Spring Gulch
	Hazletine Reservoir	Bear Creek, Chatfield, Cherry Creek, Dunes, Quincy, Ralston, Spring Gulch
	Howe-Haller A Reservoir	Bear Creek, Chatfield, Cherry Creek, Quincy, Ralston, Spring Gulch
	Howe-Haller B Reservoir	Bear Creek, Chatfield, Cherry Creek, Dunes, Quincy, Ralston, Spring Gulch
	Tanaube Reservoir	Bear Creek, Chatfield, Cherry Creek
	Welby Reservoir	Bear Creek, Blunn, Chatfield, Cherry Creek, Quincy, Ralston, Spring Gulch
Treatment Plant	Recycling Plant	Bear Creek, Chatfield, Cherry Creek, Spring Gulch

Source: Denver Water and Wood Analysis

D.4.3 Flood Vulnerability

The LPT considered Denver Water’s risk to flooding to be medium. According to the GIS analysis conducted for this planning process, there are 13 Denver Water Facilities located within areas with a 1% and 0.2% annual chance of flooding. Table D.7 shows the facilities vulnerable to flooding.



Table D.7 Denver Water Facilities Vulnerable to Flooding

Type of Facility	Facility Name
Facilities within 1% Annual Chance Flood Event	
Pump Station	Welby Pump Station
Reservoir	Bambei-Walker (Miller) Reservoir
	Cat Reservoir
	Hazletine Reservoir
	Howe-Haller A Reservoir
	Howe-Haller B Reservoir
	Welby Reservoir
Facilities within 0.2% Annual Chance Flood Event	
Dam and Res. - 5000 ac-ft	Miller Dam & Pond
Pond House	Bambei-Walker (Miller) Pond House
Pump Station	Metro Burlington Ditch Pump Station
	Recycling Plant Distribution Pump Station

Source: Denver Water and Wood Analysis

The area below the Dune Dam is prone to high flows along the rivers from heavy snowmelt runoff and intense rainfall. When significant runoff rain and events occur, Denver Water is responsible for managing Dunes Dam to maintain reservoir capacity, including releasing water to relieve pressure on the dam structure. This can result in high flows in communities such as Brighton, which have become highly developed in the floodplain downstream of Dunes Dam.

D.4.4 Drought Vulnerability

The most significant impacts associated with drought and water shortage for Denver Water are those related to water intensive activities such as wildfire protection and municipal usage. Denver Water will utilize their Water Shortage Response Plan during water shortage events. This plan contains progressive stages that can be enacted. These stages contain voluntary and mandatory conservation measures in addition to specific curtailments of water usage for specific industries. Denver Water uses various indicators when deciding to enact restrictions. These indicators include geographical, environmental and economic conditions on the western slope, where most of the Denver Water's most critical assets are located. However, restrictions and subsequent reductions in usage on the western slope do not increase water in streams and waterways in Denver Water's collection system. Revenue shortages, water quality issues and recycled water availability are all potential impacts during water shortage events. In addition, a lack of available water can also lower reservoir levels, which exposes more shoreline to erosion. This can result in increased water treatment costs. During an extraordinary, long-term water shortage event, hydropower availability may be at risk.

D.4.5 Erosion and Deposition Vulnerability

As noted in Section 4.1.1 of the Base Plan, the HMPC determined that soil erosion and deposition was not a significant hazard to Adams County as a whole. However, Denver Water has some of their facilities impacted by erosion: Howe-Haller A, Howe-Haller B, and Hazeltine Reservoirs are vulnerable to wave run-up erosion. Mitigation action DW-3 was added to addresses this hazard.

D.4.6 Growth and Development Trends

Denver Water does not have authority to manage growth or development within its district outside of Denver Water property. As the population continues to grow in Adams County and throughout the Front



Range, so too will the demand for water growth and reliance on Denver Water assets, particularly during times of drought.

D.5 Capability Assessment

Capabilities are the programs and policies currently in use to reduce hazard impacts or that could be used to implement hazard mitigation activities. The capabilities assessment is divided into five sections: regulatory mitigation capabilities, administrative and technical mitigation capabilities, fiscal mitigation capabilities, mitigation outreach and partnerships, and other mitigation efforts.

D.5.1 Regulatory Mitigation Capabilities

Regulatory mitigation capabilities include the planning and land management tools typically used by local jurisdictions to implement hazard mitigation activities. Table D.8 lists planning and land management tools typically used by local jurisdictions to implement hazard mitigation activities and indicates those that are in place in Denver Water. Many of the regulatory capabilities used by local jurisdictions are not applicable to Denver Water.

Table D.8 Denver Water—Regulatory Mitigation Capabilities

Regulatory Tool (ordinances, codes, plans)	Yes/No	Comments
General or Comprehensive plan	N/A	
Zoning ordinance	N/A	
Subdivision ordinance	N/A	
Growth management ordinance	N/A	
Floodplain ordinance	N/A	
Other special purpose ordinance (stormwater, steep slope, wildfire)	N/A	
Building code	N/A	
Fire department ISO rating	N/A	
Erosion or sediment control program	N/A	
Stormwater management program	N/A	
Site plan review requirements	N/A	
Capital improvements plan	Yes	
Economic development plan	N/A	
Local emergency operations plan	Yes	Denver Water Emergency Operations Plan developed in 2012, reviewed and updated on regular basis
Other special plans	Yes	Drought Response Plan Watershed Management Plan Crisis Communications Plan Climate Adaptation Plan Integrated Resource Plan FERC Emergency Action Plans (EAPs) on all dams. EPA Emergency Response Plans (ERPs) treatment and distribution plans. Continuity of Operations Plans



		Facility Security Plans
Flood insurance study or other engineering study for streams	N/A	
Elevation certificates (for floodplain development)	N/A	

D.5.2 Administrative/Technical Mitigation Capabilities

Table D.9 identifies the personnel responsible for activities related to mitigation and loss prevention in Denver Water.

Table D.9 Denver Water—Administrative and Technical Mitigation Capabilities

Personnel Resources	Yes/No	Department/Position	Comments
Planner/engineer with knowledge of land development/land management practices	yes	External Affairs	Watershed Scientist
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	Engineering	
Planner/engineer/scientist with an understanding of natural hazards	Yes	External Affairs	Drought planners Watershed Scientist
Personnel skilled in GIS	Yes	IT/GIS	
Full time building official	N/A		
Floodplain manager	N/A		
Emergency manager	Yes	Emergency Management Section	
Grant writer	No		
Other personnel	Yes	Water resource engineers and drought planners	
GIS Data Resources (Hazard areas, critical facilities, land use, building footprints, etc.)	Yes	IT/GIS	
Warning Systems/Services (Reverse 9-11, cable override, outdoor warning signals)	Yes	IT /Local Dispatch Centers	Internal Warning Systems/Services: Everbridge System Controls Denver Water is responsible for managing the water system and will notify first response agencies when emergencies arise External: Local Systems. First Response Agencies are responsible for notifying their populations of impacting emergencies



D.5.3 Fiscal Mitigation Capabilities

Table D.10 lists financial tools or resources that Denver Water could or already does use to help fund mitigation activities. Denver Water has received funding for forest management and watershed health improvements through the Colorado State Forest Service and U.S. Forest Service (USFS).

Table D.10 Denver Water Fiscal Mitigation Capabilities

Financial Resources	Accessible / Eligible to Use (Yes/No)	Has Been Used in the Past	Comments
Community Development Block Grant	No	N/A	
Capital Improvements Project funding	Yes	Yes	
Authority to levy taxes for specific purposes	Yes	Yes	For water rates only
Fees for water, sewer, gas, or electric services	Yes	Yes	
Impact fees for new development	Yes	Yes	Tapping Fees
Incur debt through general obligation bonds	Yes	Yes	
Incur debt through special tax bonds	No	No	
Incur debt through private activities	No	No	
Withhold spending in hazard prone areas	N/A	N/A	

D.5.4 Past Mitigation and Ongoing Efforts

Denver Water has partnered with local emergency management agencies to participate in local emergency management programs, including planning (i.e., hazard mitigation planning), training and exercises, response, recovery and mitigation efforts. Denver Water has incorporated the FEMA process for plan development including after-action reviews and improvement items all to enhance the planning, response and mitigation efforts in order to build a resilient utility.

Mitigation Outreach and Partnerships

Denver Water has various outreach and partnerships including public education programs related to water conservation, drought response, water quality, and a very active youth education program focusing on a variety of water-related topics. Denver does not currently participate in the Storm Ready or Firewise programs.

Coordination Efforts include:

- Denver Water's External Affairs division consists of Customer Relations, Communications & Marketing, Government & Stakeholder Relations, Conservation, Treated Water Planning, Demand Planning and Water Resources. This group provides a plethora of planning and outreach with local partners. They provide media relations, social media, marketing, publications, internal communication, stakeholder relations, government relations, community outreach, and website communications for both our combined service area of 1.4 million people and for the communities where Denver Water's watersheds and facilities are located.



- Denver Water’s Emergency Management, Safety & Security section partners with local OEMs, local law enforcement agencies to work closely on planning, response, recovery and mitigation efforts in order to build a resilient community that can respond to emergencies. to share public safety messages around flood/runoff safety, create a culture of preparedness and foster an understanding of Denver Water’s operations and constraints.

Denver Water uses the following communication and coordination methods to conduct public outreach:

- TAP stories, videos and infographics across all social media channels, which provide content and opportunities for local partners to adapt for use on their social media channels.
- Partnerships with County Emergency Management and offering content for their annual safety guide
- Presentations to community groups, the annual State of the River event, Emergency Manager’s Town Halls, etc.
- Expert interview(s) on local PATV station.
- Proactive media pitches to local publications and websites.

D.5.5 Opportunities for Enhancement

Based on the capability assessment, Denver Water has several existing mechanisms in place that already help to mitigate hazards. There are also opportunities for Denver Water to expand or improve on these policies and programs to further protect the community. Future improvements may include providing training for staff members related to hazards or hazard mitigation grant funding in partnership with the County and Colorado Division of Homeland Security and Emergency Management (DHSEM) or the Colorado Water Conservation Board (CWCB). Additional training opportunities will help to inform staff and board members on how best to integrate hazard information and mitigation projects into Denver Water policies and ongoing duties. Continuing to train Denver Water staff on mitigation and the hazards that pose a risk to the district will lead to more informed staff members who can better communicate this information to the public. Another opportunity for enhancement includes continued relationship building with county and local government staff to raise awareness of preparedness resources and mitigation techniques in the event of high-water flows.

D.6 Mitigation Goals and Objectives

Denver Water has adopted the hazard mitigation goals and objectives developed by the HMPC and described in Chapter 6 Mitigation Strategy.

D.7 Mitigation Actions

Denver Water identified and prioritized the following mitigation action based on the risk assessment. Background information on how each action will be implemented and administered, such as ideas for implementation, responsible agency, potential funding, estimated cost, and timeline also are included. These actions are also captured in Table 6-2 in the Base Plan.



Table D.11 Denver Water 2020 Mitigation Action Plan

ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
DW-1	2	Flood	Slope armoring of reservoirs. Design and construct slope armoring to protect the west bank of Howe-Haller A, Howe-Haller B, and Hazeltine Reservoirs from erosion caused by flood events. This will protect the West Bank from damage, costly repairs, and regulatory disruption.	Denver Water	\$6,000,000	HMA grants and District Budget	Low	2023-2024	New in 2020. This project will protect the West Bank from damage, costly repairs, and regulatory disruption.
DW-2	2	Flood	Henderson Creek Improvement. Design and construct an improved drainage channel downstream of Dunes Reservoir spillway. Dunes' spillway is designed to pass the Probable Maximum Flood (PMF). The capacity and performance of the downstream channel is currently unknown, and Dunes Reservoir has a 1 foot storage restriction until the downstream channel is improved.	Denver Water and MHFD/County	\$48,840	HMA grants and District Budget	Low	2029	New in 2020. This project will allow Dunes Reservoir to be operated to its maximum capacity without restriction.
DW-3	2	Erosion	Downstream North Complex Reservoir Riprap. Design and construct a ribbon of riprap around the perimeter of Howe-Haller A, Howe-Haller B, and Hazeltine Reservoirs to protect the reservoir slopes from wave run-up erosion.	Denver Water	\$10,500,000	HMA grants and District Budget	Low	2025-2026	New in 2020. Protects the reservoir slopes from damage caused by wave erosion.
DW-4	2	Drought	Hazeltine Final Grading. Perform grading and construct a low-flow channel in Hazeltine Reservoir. Final grading is required prior to the construction of the Hazeltine Pump Station and operation of the reservoir.	Denver Water	\$3,900,000	HMA grants and District Budget	High	2020-2021	New in 2020. This project will allow operations of Hazeltine Reservoir, pump station construction, and ultimately, operation of the North Complex.
DW-5	2	Drought	North Complex Hazeltine Pump Station. Design and construct a pump station with up to 220 cfs capacity to	Denver Water	\$121,500,000	HMA grants and	High	2020-2026	New in 2020. This project will allow the North Complex to



ID	Related Goal(s)	Hazard(s) Mitigated	Description / Background / Benefits	Lead Agency and Partners	Cost Estimate	Potential Funding	Priority	Timeline	Status / Implementation Notes
			operate the DRWSP North Complex (Dunes, Tanabe, Howe-Haller A, Howe-Haller B, and Hazeltine).			District Budget			operate for water exchange and drought recovery.



D.8 Implementation and Maintenance

This section provides an overview of Denver Water’s strategy for plan implementation and maintenance, and outlines the method and schedule for monitoring, evaluating, and updating the plan. The section also discusses incorporating the plan into existing planning mechanisms and how to ensure continued public involvement in mitigation planning.

D.8.1 Incorporation into Existing Planning Mechanisms

The information contained within this plan, including results from the Vulnerability Assessment and the Mitigation Strategy, will be used by Denver Water to help inform updates and the development of District plans, programs and policies, to include future capital improvement planning for the Denver Water area in Adams County. As noted in Chapter 7 Implementation and Maintenance, the HMPC representatives from Denver Water will report on efforts to integrate the hazard mitigation plan into local plans, programs and policies and will report on these efforts at the annual HMPC plan review meeting.

Denver Water did not participate in the 2014 Adams County Hazard Mitigation Plan, and as such did not incorporate elements of that plan into other planning mechanisms.

D.8.2 Monitoring, Evaluation and Updating the Plan

Denver Water will follow the procedures to monitor, review, and update this plan in accordance with Adams County as outlined in Chapter 7 of the Base Plan. Denver Water will continue to involve the public in mitigation, as described in Section 7.4 of the Base Plan. Denver Water Manager of Emergency Management will be responsible for representing the District in the County HMPC, and for coordination with County staff and departments during plan updates. Denver Water realizes it is important to review the plan regularly and update it every five years in accordance with the Disaster Mitigation Act Requirements.



Adams County Hazard Mitigation Plan Update Kick Off Meeting Agenda

Date: Thursday, October 17, 2019
9:00 am-11:00 am MDT

Meeting at: Adams County Government Center
4430 S. Adams Government Center
Brighton, CO 80601

Project: Adams County Multi-Hazard Mitigation Plan Update

Subject/Purpose

The purpose of the meeting is to initiate the process for updating the County's Hazard Mitigation Plan (HMP), introduce the Disaster Mitigation Act of 2000, and summarize the hazard mitigation planning process. The HMP is intended to identify hazards, assets at risk, and ways to reduce impacts through long-term sustainable mitigation projects.

Attendees: Adams County Hazard Mitigation Planning Committee and Stakeholders

-
1. Introductions
 2. Hazard Mitigation Overview
 3. Mitigation Planning Process and Requirements
 4. Overview of the 2012 Imagine Adams County Comprehensive Plan
 5. Coordination with Other Agencies, Related Planning Efforts, and Recent Studies
 6. Project Schedule and Next Steps
 7. Questions

Adams County Multi-Jurisdictional Hazard Mitigation Plan 2019 Update

Kick-Off Meeting Summary

9-11 am

October 17, 2019

Adams County Government Center
4430 S. Adams County Parkway, Brighton, CO

Introductions and Opening Remarks

This document summarizes the kickoff meeting for the Adams County Hazard Mitigation Plan update for 2019. The meeting was facilitated by Wood Environment & Infrastructure Solutions, Inc. (Wood), the consulting firm hired to facilitate the planning process and develop the updated County plan. Scott Field, project manager at Wood, began the meeting with introductions. Scott first introduced the other members of the Wood team along with Mark Thompson of the Colorado Division of Homeland Security & Emergency Management (DHSEM). Scott then asked those at the meeting to introduce themselves. Twenty (20) persons representing a mix of county departments and the Town of Bennett as well as representatives from neighboring communities were present and documented on a sign-in sheet. County representatives included the County Manager's Office, Public Works, Finance, Community Development, Assessor, Parks, IT, and Human Services, as well as representatives from North Metro Fire Rescue and the Office of the Coroner.

The key discussion is summarized below; additional details can be found in the meeting PowerPoint presentation.

Hazard Mitigation Overview

Mark (DHSEM) outlined what hazard mitigation is and why mitigation it is important. Mark explained hazard mitigation should be an ongoing effort integrated into both day-to-day operations and long-term planning. Mark noted that FEMA is only concerned with natural hazards being profiled within these plans, but explained this does not preclude communities from including manmade hazards, which could help in having a one stop plan for all types of hazards that pose a risk to the community. Mark continued by explaining a hazard mitigation plan is not a regulatory document and is not a set-in-stone commitment of resources. The overall purpose of a local hazard mitigation plan is to prevent knowable hazards from having an impact on the community.

Mark stated there are two main types of benefits a community gains from having a FEMA approved hazard mitigation plan (HMP); (1) bringing people together in the community; (2) having an HMP approved by FEMA makes a community eligible for FEMA grants (Pre-Disaster Mitigation, Flood Mitigation Assistance, Hazard Mitigation Grant Program-Post-Disaster). He noted that any funding requests from FEMA needs to be based on the hazards and mitigation strategy in the HMP. He added that

information from the hazard mitigation plan, specifically the vulnerability assessment and mitigation strategy, can be used in other hazard related plans such as community wildfire protection plans.

FEMA will only fund mitigation projects that will reduce future demand for and the costs of disaster response and recovery, such as retrofitting a critical facility, enforcing building codes, land use planning, or removing a structure from a hazard area. Mitigation funding cannot be used for response actions such as purchasing vehicles for fire or police departments. Mark continued by briefly reviewing the benefit cost relationship of mitigation projects. He shared statistics from the 2017 National Institute of Building Science Report which showed that mitigation grants funded through select federal government agencies, on average, can save the nation \$6 in future disaster costs for every \$1 spent on hazard mitigation. Since 2011, Colorado has had 116 projects awarded FEMA funding for mitigation projects. Mark continued by sharing examples of Colorado communities that have successfully used mitigation grant funding through FEMA's Hazard Mitigation Assistance Program to complete projects that have mitigated their risks from existing hazards.

Currently, the Town of Bennett and the City of Commerce City are the only local government jurisdictions seeking to participate in the planning process in addition to the County. In order for Bennett and Commerce City to be considered a "participating" jurisdiction they cannot simply adopt the plan but have to also assess their unique risks and identify specific mitigation actions for their community. All the other communities in Adams County are already included in an existing hazard mitigation plan; while their information will be included in the Adams County plan, they will not be "participating jurisdictions" in accordance with FEMA guidelines.

Hazard Mitigation Planning Process and Requirements

Scott continued the meeting with the specific planning requirements the County will have to meet in order to have a FEMA approved plan. Scott reviewed the Disaster Mitigation Act (DMA) of 2000 Requirements and explained that the Adams County Multi-Jurisdictional Hazard Mitigation Plan (HMP) will be updated in accordance with these requirements. The planning process involves a 4 Phase approach with 9 tasks per FEMA guidance updated in 2013. The kickoff meeting is the first step in the process and also covers tasks 1-3 (Determine the planning area and resources; Build the planning team; Create an outreach strategy).

Role of the Hazard Mitigation Planning Committee (HMPC)

The first step in getting organized is to determine the hazard mitigation planning committee members, which has already started with those in attendance at the kickoff meeting. Scott gave those present additional recommendations of who could also be invited to be on the committee, starting with those who were on the committee for the 2015 planning process. Scott noted that special districts could also be considered jurisdictions and be eligible for FEMA funding on their own or have the option to participate as a stakeholder. As a stakeholder they do not need to adopt the plan but could not apply directly to FEMA for grant funding.

Scott emphasized that local input, and participation from the county, municipalities, and special districts is required for full approval from FEMA. Participation includes the following:

- Attend meetings and participate in the planning process
- Provide requested information to update or develop jurisdictional information
- Review drafts and provide comments
- Identify mitigation projects specific to jurisdiction, provide status
- Assist with and participate in the public input process
- Coordinate formal adoption

Stakeholders include other local, state and federal agencies with a stake in hazard mitigation in the County or may include academic institutions and local business and industry. State and federal stakeholders may include the Colorado Department of Transportation (CDOT), Colorado Department of Public Health (CDPHE), Colorado Water Conservation Board (CWCB), and Denver International Airport (DIA). The HMPC noted the Mile High Flood District (MHD), Denver Water, the school districts, and the Regional Transportation District (RTD) should also be included as stakeholders in their process. Neighboring counties as well as incorporated jurisdictions who will not be participating in this planning process will also be notified about the update and given an opportunity to provide input into the process. Stakeholders have various options and levels of participation including:

- Attend HMPC meetings or stay in loop via email list
- Provide data/information
- Partner on mitigation efforts
- Review draft plan

Plan Update Requirements, Key Elements and Schedule

Aspects of the planning process include:

- Engage the participants to take part in planning process and efforts
- Raise awareness and engage the public
- Update hazards and baseline development data to reflect current conditions
- Update the mitigation strategy
- Document progress and note changes in priorities

An important requirement of the hazard mitigation planning process is to involve the public in the process. FEMA requires the HMPC provide two opportunities for public involvement: once during the drafting stage and once more prior to plan approval. FEMA does not prescribe how to involve the public at either of these steps. There are several advantages to involving the public including developing solutions that fit local needs better, strengthening local support for the plan and ensuring a fair process in the development of the plan. Scott acknowledged that it can be challenging to get the public to attend meetings and shared that Wood has had success with using online surveys to receive good feedback. It is also recommended to “piggyback” public meeting with other related meetings. The HMPC noted the county is currently holding nightly “Pumpkin Nights” at the Riverdale Regional Park and that there will continue to be public outreach opportunities due to the upcoming holiday season.

Another requirement of the plan update process is performing a community capability assessment. This is an assessment of the communities existing plans, regulations, fiscal abilities, administrative and technical abilities. Identifying fiscal abilities early on is important because FEMA requires a 25% match of local

funds. Early identification will help to understand potential funding sources now that could be used to possibly match the federal funds.

Conducting a risk assessment is a key aspect of a hazard mitigation plan and involves two components: hazard identification (what can happen here) and the vulnerability assessment (what will be affected). The HMP update will be based on existing documents and studies, with the Adams County Hazard Mitigation Plan (2014) providing the baseline for identified hazards and the groundwork for goals, policies and actions for hazard mitigation.

The HMP will be updated over the next six months, with at least two more meetings with the Hazard Mitigation Planning Committee. Wood will be updating the Hazard Identification and Risk Assessment (HIRA) in the next couple of months, with input from the HMPC. Three drafts of the HMP will be created: the first for review by HMPC committee, a second for public review, and a third for state and FEMA review. The first draft for HMPC review is targeted for early January 2020, with a public review draft in late January followed by a review by Colorado DHSEM.

Review of Identified Hazards

The County's previous HMP was fully integrated into the Adams County Comprehensive Plan. Based on hazards from the previous plan, the list of potential hazards was reviewed. Amy Carr, Hazard Mitigation Planner at Wood, showed a slide that listed the hazards in the 2015 HMP.

- Thunderstorms (included lightning, hail and high wind)
- Winter Weather
- Tornadoes
- Flood (included dam failure)
- Drought
- Subsidence
- Earthquake
- Wildfire

Amy recommended profiling dam failure separately from flood. The group agreed and thought that the other hazards listed are still valid but did suggest the inclusion of the following human-caused hazards; cyber threats, hazardous materials, and terrorism/active shooters. Amy noted that the significance level of some hazards may vary across the County, and some hazards may not be applicable to all jurisdictions. Scott noted that every hazard profiled should have at least one mitigation action identified.

Amy asked the group to review the list of hazards and comment on how they could be enhanced or updated with:

- Historic incidents
- Incident logs
- Public perception
- Scientific studies
- Other plans and reports (e.g., flood and drainage studies, CWPPs, Internet databases)
- Recent disasters

Coordinating with Other Agencies\Related Planning Efforts\Recent Studies

A discussion on recent studies of hazards in other documents and reports followed the identified hazards discussion. Opportunities for coordinating and cross-referencing the HMP were discussed. Recent studies and related planning efforts included the completion of Drainage Master Plan, which resulted in the removal of thirty-eight (38) structures from the floodplain; a subarea plan is being developed for the Sheridan Corridor in conjunction with the City of Arvada. At this time the HMPC also shared aspects of the community that have seen substantial changes since the 2014 plan. These changes included the opening of the G-Line (commuter rail) and development beginning to occur around the rail stops.

Other considerations for the plan update should include vulnerable populations including the homeless community.

Initial Information Needs and Next steps

Scott discussed initial information needs and next steps. Scott encouraged the group to send by email information on:

- Recent hazard events (since 2014) – damages, incident logs, damage assessments, etc.
- Growth and development trends
- Recent updated plans and policies

Where available online, Wood will try to obtain the updated plans previously noted. Scott encouraged the group to send other information that might not be readily accessible online.

A Google Share Drive and website will be set up for the project to share large documents and general project milestones. A GIS needs list was provided to the County to assist with data collection, which is already in progress. The County will provide the meeting summary, handouts, presentation and sign in sheet by email so that other HMPC members that could not attend today's meeting could get up to speed. Scott noted that he will be in touch to followup on some of the previously identified data sources and plans.

Wood will begin work in the Hazard Identification and Risk Assessment update and develop a public survey that can be used online, with a hardcopy version for dissemination at local events. The next HMPC meeting will be in November or December following the update of the Hazard Identification and Risk Assessment section of the plan. The specific date will be shared when available.

Adjourn

The meeting adjourned at 11:00 am.

scott.field@woodplc.com

303-742-5320

2000 South Colorado Blvd, Denver, CO 80222



Hazard Mitigation Plan Kick-Off Meeting
 Adams County Government Center | Platte River D
 4430 South Adams Parkway, Brighton, CO 80601

October 17, 2019

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Subject: FW: Hazard Mitigation Plan

-----Original Appointment-----

From: Ronald Sigman [mailto:RSigman@adco.gov.org]

Sent: Monday, November 18, 2019 2:22 PM

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Subject: Hazard Mitigation Plan

When: Thursday, December 12, 2019 1:00 PM-4:00 PM (UTC-07:00) Mountain Time (US & Canada).

Where: 4430 S. Adams County Parkway, Brighton, CO Platte River A conference room

You are invited to participate in the development of our County Hazard Mitigation Plan by attending our next Planning meeting being held on Thursday, December 12th, 1 -4 pm at the Adams County Government Center, 4430 S. Adams County Parkway, Platte River A conference room. During this meeting we will be discussing the top hazards faced by the County to be addressed in the Hazard Mitigation Plan. Your input and participation is appreciated.

Thank You,

**ADAMS COUNTY MULTI-JURISDICTIONAL
MULTI-JURISDICTIONAL MITIGATION PLAN
2019 UPDATE**

RISK ASSESSMENT MEETING

Thursday, December 12, 2019 1:00pm – 4:00pm

**Adams County Government Center, Platte River Room A
4430 S. Adams County Parkway, Brighton, CO**

- ❖ **Introductions**
- ❖ **Review of the Planning Process**
- ❖ **Review of Identified Hazards and Vulnerability Assessment Overview**
- ❖ **Capabilities Assessment Update**
- ❖ **Update on Public Involvement Activities/public meeting planning**
- ❖ **Next Steps**
- ❖ **Questions and Answers/Adjourn**

**Summary of the Adams County
Multi-Hazard Mitigation Plan Update
Risk Assessment Meeting**

December 12, 2019

1:00 pm – 4:00pm

**Adams County Government Center– Platte River Room A
4430 S. Adams County Parkway, Brighton, CO**

Introductions and Opening Remarks

Scott Field of Wood Environment and Infrastructure Solutions, the consulting firm hired to facilitate the plan development process, began the meeting with welcoming remarks. Twenty people were present and documented on a sign in sheet.

Review of Mitigation, Disaster Mitigation Act (DMA) Requirements, and the Planning Process

Following introductions, a PowerPoint presentation was presented by Scott Field and Amy Carr also of Wood. Amy reviewed the planning process being followed and discussed the project status.

Risk Assessment Presentation and Discussion

Amy outlined the general risk assessment requirements before turning it back to Scott for a detailed discussion of each hazard. He presented highlights on each hazard included in the updated risk assessment chapter of the plan. Refer to the Adams County HMP Risk Assessment PowerPoint presentation for specific details on each hazard and a handout summarizing hazard significance. Highlights of the discussion are noted by hazard in the table below.

Hazard or Topic	Meeting Discussion and Problem Statements
Severe Thunderstorms	<ul style="list-style-type: none"> • The HMPC concurred with moving lightning and hail into the Severe Thunderstorm profile. • HMPC noted that the hail crop and property damages seemed low. <ul style="list-style-type: none"> ○ The total listed reflects only damages reported to NOAA's NCEI database, and typically do not include insured losses. ○ Wood will review USDA Risk Management Agency's data in addition to the NCEI data to address insured crop damages also.
Tornado/High Wind	<ul style="list-style-type: none"> • Questions were received related to the inclusion of high winds in the tornado profile. <ul style="list-style-type: none"> ○ Wood will review and consider moving the hazard under thunderstorms, and/or clarify the distinction between the two hazards. • Impacts from past high wind events have led to downed powerlines which was noted as having the potential of being a cascading event with power losses, which tend to impact vulnerable populations the most.
Severe Winter Weather	<ul style="list-style-type: none"> • The HMPC noted there has been an increase in the homeless population in the County, and suggested this be considered in the vulnerability assessment.

Hazard or Topic	Meeting Discussion and Problem Statements
	<ul style="list-style-type: none"> ○ Wood has already received preliminary homeless figures and will follow up with the County Manager’s Office. ● A connection was made that the 2003 blizzard that caused \$93M in damage followed on the heels of the 2003 drought.
Flood	<ul style="list-style-type: none"> ● Clarification was received on the NFIP and insured losses data.
Drought	<ul style="list-style-type: none"> ● Questions were received related to the connection between extreme heat and drought. <ul style="list-style-type: none"> ○ Wood will clearly define the hazards and clarify the connections between the hazards.
Dam Failure/Incident	<ul style="list-style-type: none"> ● Mile High Flood District reported that they are currently updating dam inundation mapping for some of the dams in the County. ● HMPC noted the connection between cyber incidents and the risk of dam failure/incidents. ● Question was received related to the definition of dam failure and dam incidents. <ul style="list-style-type: none"> ○ Wood will clearly define the two type of events in the HIRA.
Hazardous Materials	<ul style="list-style-type: none"> ● The HMPC discussed the increase in hazardous materials incidents in the 2000s, which matches statewide and national trends. It was suggested that the increase might be partly due to the increasing number of meth labs during that period. (Subsequent analysis of data indicates that only 13 of the 833 reported hazardous materials incidents involved meth labs.) ● Questions related to what spatial analysis has been completed and suggestions on further analysis to conduct: <ul style="list-style-type: none"> ○ Map of pipelines in the County – Wood will include and highlight in the hazard profile and discussion and will consider mapping for the vulnerability assessment. ○ Map of hazmat spills – Wood currently has the data in tabular form but will consider also including a map figure. ○ Updated the zoning analysis in relation to Tier II facilities (included in the 2014 plan) – The HMPC suggested separating the incorporated jurisdictions from the County in the table. The HMPC added that the BOCC is interested in identifying the location of “invasive uses” in the county in relationship to what Zone District they are located within. ● The HMPC discussed whether or not airplane crashes should be added as a separate hazard profile, but concluded it was not needed.
Earthquake	<ul style="list-style-type: none"> ● No comments
Subsidence	<ul style="list-style-type: none"> ● No comments
Wildfire	<ul style="list-style-type: none"> ● No comments
Terrorism/Active Shooter	<ul style="list-style-type: none"> ● No comments
Cyber Incident	<ul style="list-style-type: none"> ● County experiences DDOS attacks daily. ● Adams County Fire noted being hit by a malware attack but were not impacted significant and did not have to pay a ransom. But added the 911 Center being impacted by a cyber attack could have serious cascading impacts. ● HMPC suggested increasing the extent rating from Negligible to Limited.
Capabilities	<ul style="list-style-type: none"> ● County and Tri County Health work together to report hazmat spills quickly ● Opportunities for enhancement were discussed including: <ul style="list-style-type: none"> ○ Re-integrating the Hazard Mitigation Plan in the next Comprehensive Plan update

Update on Public Involvement Activities/public meeting.

Amy noted that a draft on-line public survey and had already received 68 responses. The HMPC is encouraged to share the link to the public survey through their respective channels:

<https://woodplc.surveymonkey.com/r/AdamsCountyHMP>

Plan Timeline/Next steps

The next HMPC planning meeting will be in mid-January (now scheduled for January 14th at 1pm). The purpose of this meeting is to review the goals and objectives from 2014 plan and develop goals for the 2020 plan. The meeting materials will also be shared electronically, including the presentation and handouts.

The meeting adjourned at 4:00 pm.

**ADAMS COUNTY MULTI-JURISDICTIONAL
HAZRD MITIGATION PLAN**

2020 UPDATE

MITIGATION STRATEGY MEETING

Tuesday, January 14, 2020 1:00pm – 3:00pm

**Adams County Government Center, Brantner Gulch A
4430 S. Adams County Parkway, Brighton, CO**

- ❖ **Introductions**
- ❖ **Review of the Planning Process**
- ❖ **Public Survey Results**
- ❖ **Mitigation Goals and Objectives**
- ❖ **Mitigation Actions**
- ❖ **Review of Progress on Existing Mitigation Actions**
- ❖ **Developing New Mitigation Actions**
- ❖ **Next Steps**
- ❖ **Questions and Answers/Adjourn**

Adams County Multi-Jurisdictional Hazard Mitigation Plan 2020 Update

Goals and Mitigation Strategy Meeting Summary

January 14, 2020, 1:00 – 3:00 pm
Adams County Government Center
4430 S. Adams County Parkway, Brighton, CO

Introductions

Ron Sigman, Adams County Office of Emergency Management (OEM) Director, kicked off the meeting and thanked everyone for their participation. Ron noted there was another County government meeting going on that had pulled away several planning team members. Scott Field (Wood E&IS) introduced the Wood team and prompted the attendees to say their names and what entity/department they represent. In attendance were staff from Adams County Government, City of Thornton, Town of Bennett, City of Brighton, Denver Water, Tri-County Health Department, Commerce City, and Colorado DHSEM.

Review of the Planning Process

The FEMA planning process steps were noted; Wood is currently wrapping up the Risk Assessment process and beginning the mitigation strategy portion. Today's meeting addressed mitigation strategizing and goal review/development aspects.

The Hazard Summary table was briefly reviewed, and Scott noted that the only major change was for the Cybersecurity hazard; the Magnitude rating was switched from "negligible" to "limited" based on previous Hazard Mitigation Planning Committee (HMPC) feedback.

The roles of the participating jurisdictions in the HMPC vs. Stakeholders were reviewed, as differentiated under FEMA's eyes. Unincorporated Adams County, the Town of Bennett, and the City of Commerce City are the participating jurisdictions in the plan update, while other entities (i.e. everyone else) were key stakeholders that would provide useful input and feedback as well as review the Hazard Mitigation Plan (HMP) drafts. Only the participating jurisdictions, however, will be specifically addressed in the plan and will be required to meet certain criteria such as attending planning meetings, identifying mitigation actions, and tracking other aspects in order to qualify for funding in the future.

The City of Brighton asked to become a participating jurisdiction in the 2020 Adams County Plan Update, since the majority of their population falls within Adams County boundaries. This will be discussed more offline.

The new high potential hazard dam grant by FEMA was introduced, and how a community needs to have existing dam related goals or objectives in order to qualify for grant funds. The State of Colorado was awarded two grant projects from this grant last year. This dam grant, however, cannot be applied towards federal dams or hydroelectric dams.

Public Survey Results

The process for obtaining feedback and opinions from the general public was introduced, then the key results and top answers about the mitigation plan and assessed hazards were discussed. The top three hazards of concern based on this public survey were: Severe Thunderstorms (including heavy rain, lightning, and hail), Severe Winter Weather, and Cyberthreats. Handouts showing the entire survey results were distributed to the meeting attendees. The HMPC and stakeholders were encouraged to review the survey results and take them into account when developing mitigation goals, objectives, and actions.

Mitigation Goals and Objectives

The existing goals from the current Adams County Comprehensive (Comp) Plan were reviewed so that the HMPC could decide whether to keep, edit, re-define, or remove what they think is appropriate moving forward with the HMP. Key differences between “goals,” “objectives” and “actions” were defined as described by FEMA: goals and objectives are usually more general and broad guidelines while actions are specific and project-driven. Projects submitted for grant funding will need to tie back to goals and objectives in the HMP. The attendees received copies of the 2014 Comprehensive Plan goals along with goals from related mitigation plans included the Colorado State Hazard Mitigation Plan, and several local HMPs from the surrounding area.

As reference, the 2014 Adams County Comp Plan Goals were:

- Goal 1: Promote coordinated and connected growth
- Goal 2: Protect the health, safety, and welfare of Adams County’s inhabitants
- Goal 3: Foster regional collaboration and partnerships
- Goal 4: Reduce the fiscal impact of growth
- Goal 5: Promote economic vitality
- Goal 6: Preserve the County’s natural resources

The Wood team engaged the attendees in discussing how to handle previous Comp Plan goals in the context of this mitigation plan, with the options to: keep/transfer current Comp Plan goals in the new HMP; create new mitigation goals that support the Comp Plan existing goals; or perhaps generate completely new goals. The attendees discussed whether the Comp Plan policies falling under the general goals perhaps translated more appropriately to mitigation plan objectives. Because the Comp Plan usually is very wide-ranging in terms of aspects addressed and the existing goals are not necessarily mitigation-oriented, certain policies more applicable to mitigation were pulled and are noted in the distributed Mitigation Strategy handouts.

The group agreed to develop mitigation focused goals for this plan, and then tie them in to the relevant Comp Plan goals. The Adams County Comp Plan is being updated in 2021, and will focus more on sustainability and corridors of interest. The goals developed for this HMP will be used to inform the Comp Plan update. Certain Adams County Comp Plan policies were suggested for keeping: these were Policies 2.4, 12.1, and 12.2.

Participating jurisdictions are free to come up with their own goals and objectives, or they can simply adopt the County’s.

The group discussed how to address, via mitigation actions or other methods, the increasing homeless population in the county, and how that ties to hazards such as flooding, since homeless populations tend to congregate in those types of hazard prone areas that may then distribute biohazards down the stream.

Ron from Adams County OEM suggested the attendees come up with 3 to 4 goals and perhaps add to current Comp Plan goals. He mentioned he would be sending out an email to request feedback from key entities/departments. The departments most involved with future goals and actions need to have a voice (e.g. public works, stormwater), since actions depend on priorities, but these change over time and by department.

Attendees mentioned some key themes currently set by the City of Westminster's HMP and that Adams County could use the same method for determining goals. The following goals were specifically mentioned as a starting point for developing updated goals for Adams County:

- Increase community awareness of Adams County's vulnerability to natural hazards.
- Reduce the vulnerability of people, property, and the environment to natural and human-caused hazards.
- Increase internal capabilities and coordination to reduce the impacts of natural and human-caused hazards.
- Strengthen communication and coordination among public agencies, NGOs, businesses, and residents.

Wood will work with Adams County OEM to flesh these out and send them to the HMPC for comments. Goals and objectives will be finalized at the February meeting.

Mitigation Actions

One way to think of mitigation actions is the four A's:

- Altering a hazard,
- Averting a hazard,
- Avoiding a hazard,
- Adapting to a hazard

FEMA suggests these four categories for mitigation actions:

- Plans and Regulations,
- Structure and Infrastructure Projects,
- Education and Awareness, and
- Natural Systems Protection.

Resources for more details on mitigation action types, categories, and example projects were provided, including a short discussion on climate change and adaptation considerations. Example hazard-specific mitigation projects were discussed including FEMA funding-eligible projects for winter weather, flood, and other hazards.

Mark from DHSEM reminded the crowd that FEMA looks at actions and goals as reducing risk long-term, and to keep that in mind as the HMPC considers new actions. Mark also suggested using the key term

“resiliency” as the HMPC considers mitigation actions, to push people and stakeholders to open up to additional types of grants or funding.

Review of Progress on Existing Mitigation Goals and Actions

The 2014 Adams County mitigation actions were reviewed amongst the meeting attendees with the following actions being discussed in more detail:

- Adams County Actions 13 (Hoffman Drainage Way) and 16 (Little Dry Creek Flood Mitigation) were noted as being Completed.
- The Town of Bennett asked if they should keep mitigation action 2015-28 Priority 9.5 since the town lacks a fire authority. Wood suggested they may keep it or reword it to emphasize coordination between appropriate agencies if desired.

Mark from DSHSEM covered some examples of “Deleted” actions due to lack of project applicability over time, or even inability to complete a project in an area where the community does not have control/jurisdiction (e.g. state owned vs. federal land).

Short-term ongoing projects or projects predicted to be completed this year may not need to be included in this HMP since they will be over with by the time of the HMP approval in 2020.

Developing New Mitigation Goals and Actions

Each participating jurisdiction needs to develop at least one new action. Ideally, jurisdictions should develop actions that address all the hazards addressed in the plan, or at least the High significance hazards, but FEMA Region VIII does not require this. All jurisdictions that participate in the National Flood Insurance Program (NFIP) will need to have a mitigation action addressing continued NMFIP compliance.

The following resources with ideas and examples of mitigation actions and implementation were reviewed:

- FEMA’s Mitigation Idea: <https://www.fema.gov/media-library/assets/documents/30627>
- Colorado Planning for Hazards Guide: <https://planningforhazards.com/home>

The new mitigation action worksheets were passed out and explained; and attendees were asked to fill out at least one mitigation action before leaving, to provide initial guidance and ideas. A digital version of the new mitigation action sheet will be sent out after the meeting to provide additional forms. Wood requested that all mitigation action development sheets be returned by January 31st.

Ron from Adams County Emergency Management stated that he would be sending out a meeting follow up meeting to Adams County Parks and Open Space, Public Works, and Stormwater Departments as well as the county managers and directors to request input on this mitigation strategy process as well as collect new mitigation action sheets.

Next Steps

The next steps in the HMP update process were briefly discussed and the project milestones and prospective timeline for task completions were presented. The Wood team mentioned that the next HMPC meeting would be focused on setting and prioritizing mitigation actions and that the specific day and time would be set soon.

Questions and Answers/Adjourn

The meeting adjourned around 3pm.

Points of Contact for this HMP update effort:

Scott Field

Wood E&IS Project Manager

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Ronald Sigman

Adams County Emergency Manager

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4430 S. Adams County Pkwy, Brighton, CO 80601

ADAMS COUNTY HAZARD MITIGATION PLAN

2019 UPDATE

Updating the Mitigation Strategy

Mitigation Planning Goals, Objectives, and Actions - Definitions

Goals, objectives, and mitigation actions should be based on the information revealed in the Risk Assessment. Definitions are provided below:

Goals are general guidelines that explain what you want to achieve. Goals are defined before considering how to accomplish them so that the goals are not dependent on the means of achievement. They are usually broad policy-type statements, long term, and represent global visions, such as:

- Reduce exposure to hazard related losses
- Minimize the risk from natural disasters to existing facilities and proposed development.
- Reduce the impact of natural hazards to the citizens of the county.
- Provide protection for natural resources from hazard impacts
- Maintain and enhance existing mitigation measures.
- Increase public awareness of vulnerability to hazards and support and demand for hazard mitigation

Objectives define strategies or implementation steps to attain the identified goals. Unlike goals, objectives are specific and measurable, such as:

- Maintain the flood mitigation programs to provide 100-year flood protection
- Protect critical facilities to the 500 year flood
- Educate citizens about wildfire defensible space actions.
- Prepare plans and identify resources to facilitate reestablishing operations after a disaster.

Mitigation Actions are specific actions that help you achieve your goals and objectives. Some examples include:

- Elevate three historic structures located in the downtown district
- Sponsor a community fair to promote wildfire defensible space
- Retrofit the police department to withstand flood damage

The goals and objectives from the Adams County 2014 Comprehensive Plan are shown on the next page. The 2020 plan update presents an opportunity to review the goals and modify if desired. Use this handout to verify that they are still appropriate or suggest modifications to the planning committee and Wood (Scott.Field@woodplc.com).

Adams County 2014 Comprehensive Plan Goals

Goal 1: Promote Coordinated and Connected Growth

Goal 2: Protect the Health, Safety, and Welfare of Adams County's Inhabitants

Goal 3: Foster Regional Collaboration and Partnerships

Goal 4: Reduce the Fiscal Impact of Growth

Goal 5: Promote Economic Vitality

Goal 6: Preserve the County's Natural Resources

2014 Comprehensive Plan Policies Related to Mitigation

Policy 2.4: Promote Regional Cooperation

Policy 7.1: Boost Drainage and Flood Control Capacity

Policy 7.3: Protect Water Supplies

Policy 9.3: Preserve Water Corridors and Reservoirs

Policy 9.4: Protect Culturally and Historically Significant Resources

Policy 12.1: Reduce Risk and Effects of Natural Hazards

Policy 12.2: Increase Public Awareness of Hazard Risks

Policy 12.3: Limit Building in High-Risk Areas and Improve Disaster Prevention.

Other Related Plan Goals

It is also important to integrate the mitigation strategy with other existing goals to ensure consistency, efficiency, and effectiveness. This can help in identifying funding opportunities.

Adams County Open Space, Parks & Trail Plans Master Plan – Guiding Principles and Goals (2012)

Principal 3: Natural Resource and Wildlife Habitat Protection

- Protect and enhance important ecological and scenic resources such as riparian areas, wetlands, floodplains, prairie grasslands and unique land forms.

Principal 5: Water Resources Protection and Enhancement

- Improve water quantity and quality to assure a continuing quality of life in Adams County by implementing stormwater management best practices to minimize runoff and encourage infiltration, protecting and enhancing wetland habitats and riparian zones.
- Protect, in as natural a state as possible, floodplains and flood hazard areas for flood event conveyance and storage. Enhance these corridors with vegetation to reduce erosion and siltation.

Principal 7: Agricultural Conservation

- Preserve and protect the viability and character of high quality agricultural lands in the County.
- Consider agricultural lands and their viability to serve as natural area protection.

Principal 9: Disturbed Land Restoration

- Encourage existing and future mining operations to reclaim lands during and after mining in an effort to create habitat, restore vegetation, contribute to flood storage and provide recreational and educational opportunities.

The following goals are from jurisdictions in Adams County as well as some neighboring counties' hazard mitigation plans, and are also provided for reference purposes.

2017 Thornton, Federal Heights, & Northglenn Hazard Mitigation Plan

Thornton Goals

1. Protect people, property, and natural resources
2. Improve capability to prevent and reduce physical, economic, and social losses from disasters
3. Ensure that functionality of local critical facilities are maintained in the event of a disaster
4. Strengthen communication and coordination among public agencies, NGOs, businesses, and residents
5. Increase public awareness of natural hazard risks and mitigation options
6. Integrate hazard mitigation into other planning mechanisms
7. Ensure that Hazard Mitigation will be acknowledged and supported by the Thornton Comprehensive Plan and other local plans

Federal Heights Goals

1. Improve capability to reduce disaster losses
2. Strengthen communication and coordination among public agencies, NGOs, businesses, and citizens
3. Increase public awareness of natural hazards and mitigation options
4. Integrate hazard mitigation into other planning mechanisms
5. Increase the city's resilience to hazards during all phases of the Emergency Management Cycle
6. Increase individual resilience to hazards

Northglenn Goals

1. Protect people, property, and natural resources
2. Improve capability to reduce disaster losses
3. Strengthen communication and coordination among public agencies, NGOs, businesses, and citizens
4. Increase public awareness of natural hazards and mitigation options

City of Aurora Hazard Mitigation Plan 2016

Goal 1: Protect people, property, critical facilities, and natural resources from natural hazards through mitigation planning and activities.

Goal 2: Increase public awareness, preparedness, and education about localized natural hazards and actions that can be taken to reduce their impacts.

Goal 3: Establish and maintain relationships that strengthen hazard communication and coordination efforts with public agencies, non-governmental organizations (NGOs), businesses, and citizens.

Goal 4: Coordinate and integrate natural hazard mitigation with city planning, engineering, and development activities.

Goal 5: Maintain the momentum of hazard mitigation planning and preparedness efforts in Aurora

City of Westminster Hazard Mitigation Plan 2018

Goal 1: Increase community awareness of Westminster’s vulnerability to natural hazards

Goal 2: Reduce vulnerability of people, property, and the environment to natural hazards

Goal 3: Increase internal capabilities and coordination to reduce the impacts of natural hazards

Arapahoe County Multi-Hazard Mitigation Plan 2015-2020

Goal 1: Prevent the loss of lives and injuries from hazards

Goal 2: Prevent and/or reduce damages to public and private property from hazards

Goal 3: Strengthen communication and coordination among public agencies, non-governmental organizations (NGOs), businesses and private citizens

Goal 4: Reduce the adverse economic and natural resource impacts of hazards

Goal 5: Improve local resiliency to hazard events

Jefferson County Multi-Hazard Mitigation Plan, 2016

Goal 1: Increase awareness about natural hazards

Goal 2: Reduce impacts of natural hazards on life, property, and the environment

Goal 3: Strengthen and develop partnerships in regard to mitigating hazard impacts

Weld County Multi-Jurisdictional Hazard Mitigation Plan, 2016

Goal 1: Reduce loss of life, property damages and economic impacts from disasters

Goal 2: Improve the County’s and local jurisdictions’ capabilities to reduce disaster losses

Goal 3: Increase community resilience through community engagement and preparedness education

Goal 4: Position Weld County communities to maintain eligibility for FEMA and other federal mitigation funding through active participation in mitigation planning.

STATE OF COLORADO 2018 MITIGATION GOALS

Minimize the loss of life and personal injuries from all-hazard events (I)
A, D, F, G, H
Reduce losses and damages to state, tribal, and local governments, as well as special districts and private assets, and support similar local efforts (II)
J, O
Reduce federal, state, tribal, local, and private costs of disaster response and recovery (III)
D, E, J, P, Q
Support mitigation initiatives and policies that promote disaster resiliency, nature-based solutions, cultural resources and historic preservation, and climate adaptation strategies (IV)
A, B, E, M, N
Minimize interruption of essential services and activities (V)
D, E, J, L, P, Q
Incorporate equity considerations into all mitigation strategies (VI)
A, E
Support improved coordination of risk mitigation between and among the public, private, and non-profit sectors (VII)
A, C, D, E, G, I, K, L, M, N, O, R
Create awareness and demand for mitigation as a standard of practice (VIII)
A, B, C, E, G, K, L, M, N, O

Mitigation Objectives:

- A. Support and empower local and regional mitigation strategies through statewide guiding principles, programs, and resources
- B. Promote activities that are climate neutral and supportive of appropriate renewable and alternative energy
- C. Strengthen hazard risk communication tools and procedures
- D. Strengthen continuity of operations at the federal, state, regional, tribal, and local levels of government to ensure the delivery of essential services
- E. Strengthen cross-sector connections across the state government
- F. Identify specific areas at risk to natural hazards and zones of vulnerability

- G. Expand public awareness, education, and information programs relating to hazards and mitigation methods and techniques
- H. Develop mitigation projects focused on preventing loss of life, injuries, and negative impacts to natural resources and reliant community sectors from natural, technological, and human-caused hazards
- I. Assist local government officials with construction, non-construction, and regulatory hazard mitigation activities
- J. Protect state critical, essential, and necessary assets located in natural hazard risk areas
- K. Improve state, tribal, and local government mitigation project monitoring and decision-making tools
- L. Strengthen connections between hazard mitigation activities and preparedness, response, and recovery activities
- M. Improve coordination of state government mitigation resources with federal, tribal, and local government and private nonprofit resources
- N. Increase state, tribal, and local government and private nonprofit participation in existing hazard mitigation programs
- O. Partner with local and tribal governments to develop projects, initiatives, and public resources that protect private property from hazards
- P. Reduce services interruptions and revenue losses, resulting from hazard events, to the state
- Q. Reduce downtime and revenue losses, resulting from hazard events, for local and tribal governments and private nonprofit organizations
- R. Through training, grants, and technical assistance, increase local government use of land use strategies that reduce risks to hazards

Example Mitigation Action Items

Alternative Mitigation Actions	Dam Failure	Floods	Hazardous Materials	Drought	Weather Extremes (hail, lightning, wind, temps, drought)	Earthquakes	Wildland Fires	Severe Winter Storm
PREVENTION								
Building codes and enforcement		■	■	■	■	■	■	■
Comprehensive Watershed Tax		■						
Density controls	■	■	■				■	
Design review standards		■	■	■		■	■	
Easements		■	■				■	
Environmental review standards		■	■			■	■	
Floodplain development regulations	■	■	■					
Hazard mapping	■	■	■				■	
Floodplain zoning	■	■	■					
Forest fire fuel reduction			■				■	
Housing/landlord codes			■	■	■			
Slide-prone area/grading/hillside development regulations							■	
Manufactured home guidelines/regulations		■			■	■		
Minimize hazardous materials waste generation			■					
Multi-Jurisdiction Cooperation within watershed	■	■		■				
Open space preservation	■	■					■	
Performance standards	■	■		■	■	■	■	■
Periodically contain/remove wastes for disposal			■					
Pesticide/herbicide management regulations			■					
Special use permits	■	■	■				■	
Stormwater management regulations		■	■					
Subdivision and development regulations	■	■	■	■		■	■	
Surge protectors and lightning protection					■			
Tree Management				■	■		■	■

Alternative Mitigation Actions	Dam Failure	Floods	Hazardous Materials	Drought	Weather Extremes (hail, lightning, wind, temps, drought)	Earthquakes	Wildland Fires	Severe Winter Storm
Transfer of development rights		■					■	
Utility location			■		■			■
PROPERTY PROTECTION								
Acquisition of hazard prone structures	■	■					■	
Facility inspections/reporting	■	■	■			■		
Construction of barriers around structures	■	■	■					
Elevation of structures	■	■						
Relocation out of hazard areas	■	■	■				■	
Structural retrofits (e.g., reinforcement, floodproofing, bracing, etc.)		■	■	■	■	■	■	■
PUBLIC EDUCATION AND AWARENESS						■		
Debris Control		■						
Flood Insurance	■	■						
Hazard information centers	■	■	■	■	■	■	■	■
Public education and outreach programs	■	■	■	■	■	■	■	■
Real estate disclosure	■	■	■		■	■	■	■
Crop Insurance				■	■	■		
Lightning detectors in public areas					■			
NATURAL RESOURCE PROTECTION								
Best Management Practices (BMPs)		■	■	■	■		■	
Forest and vegetation management	■	■		■	■		■	■
Hydrological Monitoring	■	■	■	■	■			
Sediment and erosion control regulations	■	■	■	■				
Stream corridor restoration		■						
Stream dumping regulations		■	■					
Urban forestry and landscape management		■		■	■		■	■
Wetlands development regulations		■	■				■	
EMERGENCY SERVICES								

Alternative Mitigation Actions	Dam Failure	Floods	Hazardous Materials	Drought	Weather Extremes (hail, lightning, wind, temps, drought)	Earthquakes	Wildland Fires	Severe Winter Storm
Critical facilities protection	■	■	■	■	■	■	■	■
Emergency response services	■	■	■		■	■	■	■
Facility employee safety training programs	■	■	■		■	■	■	■
Hazard threat recognition	■	■	■	■	■	■	■	■
Hazard warning systems (community sirens, NOAA weather radio)	■	■	■		■	■	■	■
Health and safety maintenance	■	■	■	■	■	■	■	■
Post-disaster mitigation	■	■	■	■	■	■	■	■
Evacuation planning	■	■	■				■	
STRUCTURAL PROJECTS								
Channel maintenance		■						
Dams/reservoirs (including maintenance)	■	■						
Isolate hazardous materials waste storage sties			■					
Levees and floodwalls (including maintenance)		■						
Safe room/shelter					■	■		■
Secondary containment system			■					
Site reclamation/restoration/revegetation		■	■	■				
Snow fences								■
Water supply augmentation				■	■			

Carr, Amy

From: Ronald Sigman <RSigman@adcogov.org>
Sent: Monday, February 03, 2020 7:14 AM
To: alex.jakubowski@elbertcounty.co.gov; Alisha Reis; Carr, Amy; Ben Dahlman; blenderi@auroragov.org; Brandy Foley; Brian Dearth; Byron Fanning; Chris Kline; Chris Laws; christopher.hudak@state.co.us; cmcmahill@suncor.com; CoronerQuestions; Cory Stark; Crystal Elliott; Dave Skuodas; David Rausch; Debbie Haines; dross@sacfd.org; earlcumley@bennettfirerescue.org; ejanes@arvada.org; Gabe Rodriguez; gkgrove@co.jefferson.co.us; gordie.olson@cityofthornton.net; Greg Baca; Greg Moser; gscheidt@bennett.co.us; Heidi M. Miller; Herb C. Covey; Josh Zygielbaum; Juliana J. Archuleta; Julie.Beyers@state.co.us; Karsen M. Forsman; kdavies@broomfield.org; Ken Musso; Kirk Dominic; Kristin Sullivan; kstewart@udfcd.org; Kurt Carlson; Kylin Mueller; Linda Hawkins; Lisa Culpepper; logan sand; Libby Tart; markw.thompson@state.co.us; BlancoCastano, Marta; Martin.Postma@cityofthornton.net; Mary Hodge; maskenazi@tchd.org; Matt Chapman; Matthew Newman (mnewman@tchd.org); Matthew.Mueller@denvergov.org; Michael Bean; Mike Holub; mnichols@adcom911.org; mschuman@acfpd.org; Nathan Fogg; Norm Brown; Paolo Diaz; Ray Gonzales; Rebecca Zamora; Rebecca.franco@denverwater.org; Rick Reigenborn; Ron Osgood; Ronald Sigman; Ross Riley; Ryan Doyle; RYoung@crgov.com; Sandra K. Dean; Field, Scott; solomon.rich@sablealturafire.org; Stephanie Caulk; Stephanie Hackett; Steve O'Doriso; tbeach@seweldfire.org; Thomas Swingle; TPatterson@acfpd.org; Wayne Belohlavy
Subject: FW: Adams County draft HIRA for HMPC review

Planning Committee Members,

Please take a look at the first draft of the updated Hazard Identification and Risk Assessment (HIRA) section (link below) for the revised 2020 County Hazard Mitigation Plan. Our contractor, Scott Field has included some instruction below for providing comments.

Thank You,

From: Field, Scott <scott.field@woodplc.com>
Sent: Friday, January 31, 2020 6:38 PM
To: Ronald Sigman <RSigman@adcogov.org>
Cc: Carr, Amy <amy.carr@woodplc.com>; BlancoCastano, Marta <marta.blancocastano@woodplc.com>; Moore, Abigail <abigail.moore@woodplc.com>
Subject: RE: Adams County draft HIRA for HMPC review

Please be cautious: This email was sent from outside Adams County

Oh I forgot to add: if the file is too large for some folks' email programs, it can also be accessed through this Box folder:

<https://app.box.com/s/womtnitf0jg3wcmibgavhu4adde7f3g6>

W. Scott Field, CEM
Senior Emergency Management Specialist
Wood Environment & Infrastructure Solutions, Inc
Hazard Mitigation and Emergency Management Program
2000 South Colorado Blvd, Suite 2-1000, Denver, CO, 80222
Office: 303-742-5320
Mobile: 720-569-9266
scott.field@woodplc.com
www.woodplc.com

From: Field, Scott
Sent: Friday, January 31, 2020 6:34 PM
To: Ronald Sigman (RSigman@adcogov.org) <RSigman@adcogov.org>
Cc: 'Amy Carr (amy.carr@woodplc.com)' <amy.carr@woodplc.com>; BlancoCastano, Marta <marta.blancocastano@woodplc.com>; Moore, Abigail <abigail.moore@woodplc.com>
Subject: Adams Dounty draft HIRA for HMPC review

Ron,

Attached is the first draft of the updated Hazard Identification and Risk Assessment section of the Adams County Hazard Mitigation Plan. Please distribute to the HMPC for review and comment.

Anything **highlighted in yellow** is a specific question or note for the HMPC's attention.

Anything **highlighted in green** is a placeholder for Wood to add more material later.

We would like to get comments back **by February 14th** in order to turn around and deliver a draft of the complete plan by the end of February. Please have people send their comments to me, preferably either in track changes or as comments.

Thanks, and have a great weekend.

W. Scott Field, CEM
Senior Emergency Management Specialist
Wood Environment & Infrastructure Solutions, Inc
Hazard Mitigation and Emergency Management Program
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Carr, Amy

From: Ronald Sigman <RSigman@adcogov.org>
Sent: Wednesday, January 15, 2020 11:15 AM
To: Kristin Sullivan; Byron Fanning; Mike Holub
Cc: Libby Tart; David Rausch; Field, Scott
Subject: Comprehensive Plan Mitigation projects

Good Morning,

As we continue to move forward on the revision to the Hazard Mitigation Plan our contractor is seeking information on the status of mitigation projects that were identified in the 2012/2014 Comprehensive Plan. We are also seeking information on projects that may be proposed for the next few years that relate to mitigation. This information is an important piece of the Hazard Mitigation Plan which is an integral part of Comp Plan. If you have any information on past or proposed mitigation projects that we can include in our plan it would help us out moving forward. Again, our Hazard Mitigation Plan is a federal requirement for seeking Mitigation grant funding that can be used to support our County projects.

Thank You in advance for any information you can provide,



Ron Sigman, CO-CEM

Emergency Manager, *Office of Emergency Management*

ADAMS COUNTY, COLORADO

4430 South Adams County Parkway, 1st Floor, Suite C1900

Brighton, CO 80601

o: 720.523.6601 m: 720.988.4148 | rsigman@adcogov.org

www.adcogov.org

Carr, Amy

From: Ronald Sigman <RSigman@adcogov.org>
Sent: Monday, January 13, 2020 8:59 AM
To: alex.jakubowski@elbertcounty.co.gov; Alisha Reis; Carr, Amy; Ben Dahlman; blenderi@auroragov.org; Brandy Foley; Brian Dearth; Byron Fanning; Chris Kline; Chris Laws; christopher.hudak@state.co.us; cmcmahill@suncor.com; CoronerQuestions; Cory Stark; Crystal Elliott; Dave Skuodas; David Rausch; Debbie Haines; dross@sacfd.org; earlcumley@bennettfirerescue.org; ejanes@arvada.org; Gabe Rodriguez; gkgrove@co.jefferson.co.us; gordie.olson@cityofthornton.net; Greg Baca; Greg Moser; gscheidt@bennett.co.us; Heidi M. Miller; Herb C. Covey; Josh Zygielbaum; Juliana J. Archuleta; Julie.Beyers@state.co.us; Karsen M. Forsman; kdavies@broomfield.org; Ken Musso; Kirk Dominic; Kristin Sullivan; kstewart@udfcd.org; Kurt Carlson; Kylin Mueller; Linda Hawkins; Lisa Culpepper; logan sand; Libby Tart; Mark Bodane; markw.thompson@state.co.us; BlancoCastano, Marta; Martin.Postma@cityofthornton.net; Mary Hodge; maskenazi@tchd.org; Matt Chapman; Matthew Newman (mnewman@tchd.org); Matthew.Mueller@denvergov.org; Michael Bean; Mike Holub; mnichols@adcom911.org; mschuman@acfpd.org; Nathan Fogg; Norm Brown; Paolo Diaz; Ray Gonzales; Rebecca Zamora; Rebecca.franco@denverwater.org; Rick Reigenborn; Ron Osgood; Ronald Sigman; Ross Riley; Ryan Doyle; RYoung@crgov.com; Sandra K. Dean; Field, Scott; solomon.rich@sablealturafire.org; Stephanie Caulk; Stephanie Hackett; Steve O'Doriso; tbeach@seweldfire.org; Thomas Swingle; TPatterson@acfpd.org; Wayne Belohlavy

Subject: Hazard Mitigation Plan meeting info
Attachments: Copy of Mitigation Action Tracker 1-6-20.xlsx; Mitigation Goals Worksheet_Adams2019.docx; Adams County HMP Mitigation Strategy Meeting Agenda -Final.docx

Follow Up Flag: Follow up
Flag Status: Completed

Our next Hazard Mitigation Plan meeting is scheduled for Jan 14th at 1:00 pm at the Adams County Government Center (4430 S. Adams County Parkway, Brighton) in the Brantner Gulch A conference room. I have attached the meeting agenda, mitigation action tracker spreadsheet, and mitigation goals worksheet for your review/comments. If you have information or comments regarding any of the items contained in the goals or action tracker worksheets please bring those notes to the meeting or you can email me that information so that we can include them in our Plan.

Thank You in advance,



Ron Sigman, CO-CEM

Emergency Manager, *Office of Emergency Management*

ADAMS COUNTY, COLORADO

4430 South Adams County Parkway, 1st Floor, Suite C1900

Brighton, CO 80601

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Carr, Amy

From: Ronald Sigman <RSigman@adcogov.org>
Sent: Friday, March 6, 2020 10:46 AM
To: Alisha Reis; Carr, Amy; Andres M. Carrera; blenderi@auroragov.org; Brandy Foley; Brian Dearth; Byron Fanning; Chris Kline; Chris Laws; christopher.hudak@state.co.us; cmcmahill@suncor.com; Cory Stark; Crystal Elliott; Dave Skuodas; David Rausch; Debbie Haines; dross@sacfd.org; earlcumley@bennettfirerescue.org; ejanes@arvada.org; Gabe Rodriguez; gkgrove@co.jefferson.co.us; gordie.olson@cityofthornton.net; Greg Baca; Greg Moser; gscheidt@bennett.co.us; Heidi M. Miller; Juliana J. Archuleta; Julie.Beyers@state.co.us; Ken Musso; Kirk Dominic; kstewart@udfcd.org; Kurt Carlson; Kylin Mueller; Linda Hawkins; Lisa Culpepper; logan sand; Libby Tart; markw.thompson@state.co.us; BlancoCastano, Marta; Martin.Postma@cityofthornton.net; Michael Bean; Mike Holub; mnichols@adcom911.org; mschuman@acfpd.org; Paolo Diaz; Ray Gonzales; Rebecca Zamora; Rebecca.franco@denverwater.org; Ron Osgood; Ronald Sigman; Ross Riley; Ryan Doyle; RYoung@crgov.com; Sandra K. Dean; Field, Scott; solomon.rich@sablealturafire.org; Stephanie Caulk; Stephanie Hackett; Steve O'Doriso; tbeach@seweldfire.org; Thomas Swingle; TPatterson@acfpd.org; Wayne Belohlavy
Subject: FW: Adams County Hazard Mitigation Plan - HMPC Review Draft

Please take a minute to look over the base draft of the Hazard Mitigation Plan <https://app.box.com/s/womtnitf0jg3wcmibgavhu4adde7f3g6> . Please submit any edits in the Word doc using track changes by Friday, March 20 so that we can keep our project on schedule.

Thank You,

From: Field, Scott <scott.field@woodplc.com>
Sent: Friday, March 6, 2020 10:35 AM
To: Ronald Sigman <RSigman@adcogov.org>
Cc: Carr, Amy <amy.carr@woodplc.com>
Subject: Adams County Hazard Mitigation Plan - HMPC Review Draft

Please be cautious: This email was sent from outside Adams County

Ron,

The draft Adams County Hazard Mitigation Plan is ready for HMPC review at:
<https://app.box.com/s/womtnitf0jg3wcmibgavhu4adde7f3g6>

Please pass this link on to all HMPC members. The document is available in both Word and pdf format. We would prefer comments & edits in the Word doc using track changes, but we'll take them any way we can get them. Note that for those who didn't have a chance to review and comment the on the draft HIRA – you get a second chance!

This is only the base plan: the jurisdictional annexes and the appendices will be completed once we have your feedback on the base plan.

We need comments back by **Friday March 20** in order to keep the project on schedule.

Thank you all for your involvement and for staying engaged throughout this process!

**ADAMS COUNTY MULTI-JURISDICTIONAL
HAZRD MITIGATION PLAN**

2020 UPDATE

MITIGATION STRATEGY MEETING

Wednesday, February 5, 2020 9:00am – 11:00am

**Adams County Government Center, Brantner Gulch C
4430 S. Adams County Parkway, Brighton, CO**

- ❖ **Introductions**
- ❖ **Review of the Planning Process**
- ❖ **Review of Mitigation Goals and Objectives**
- ❖ **Review of possible mitigation activities and alternatives**
- ❖ **Discuss criteria for mitigation action selection and prioritization**
- ❖ **Prioritize mitigation actions (group process)**
- ❖ **Next Steps**
- ❖ **Questions and Answers/Adjourn**

Adams County Multi-Jurisdictional Hazard Mitigation Plan 2020 Update

Mitigation Priorities Meeting Summary

February 5, 2020, 9:00 – 11:00 am
Adams County Government Center
4430 S. Adams County Parkway, Brighton, CO

Introductions

Ron Sigman, Adams County Office of Emergency Management (OEM) Director, kicked off the meeting and thanked everyone for their participation. In attendance were staff from Adams County Government, City of Northglenn, City of Westminster, Town of Bennett, Denver Water, Tri-County Health Department, and Colorado DHSEM.

Review of the Planning Process

The meeting began with a recap of the planning process and actions completed to date. The City of Brighton and Denver Water have officially been added as participating jurisdictions in the updated plan.

The first draft of the Hazard Identification and Risk Assessment (HIRA) was sent to HMPC members on January 31st; comments are due back to the Wood consultant team by February 14th. Attendees were specifically asked to review the hazard rankings, and comment if they agreed with them as listed. The data analysis suggests possible changes to the rankings for flood and dam incidents; however the HMPC is in no way bound to accept these changes as data is often incomplete and doesn't always tell the whole story.

Mitigation Goals and Objectives

The draft mitigation goals and objectives were reviewed and approved for inclusion in the draft plan.

Mitigation Action Prioritization

A total of 27 new mitigation actions were submitted by HMPC members. The HMPC reviewed and prioritized these actions using the STAPLEE criteria (Social, Technical, Administrative, Political, Legal, Economic, and Environmental). Participants then "voted" for which projects they thought the County should focus on; the number of votes was converted to a priority for each project (high, medium, or low). This prioritization will be reflected in the new Mitigation Actions Table in the draft plan.

Next Steps

Once HMPC comments on the draft HIRA have been received, Wood will prepare a draft of the base plan for HMPC review. This draft is anticipated by early March. A public review draft is expected by late March, with submission to the State and FEMA in April. This schedule would have the final plan ready for local adoption in June.

If Adams County OEM feels that another meeting is warranted to review the final plan, it will be scheduled; but there is not currently another face-to-face meeting of the HMPC planned.

Questions and Answers/Adjourn

The meeting adjourned at 11 am.

Points of Contact for this HMP update effort:

Scott Field

Wood E&IS Project Manager

scott.field@woodplc.com

303-742-5320

2000 South Colorado Blvd, Denver, CO 80222

Ronald Sigman

Adams County Emergency Manager

rsigman@adcogov.org

720-523-6601

4430 S. Adams County Pkwy, Brighton, CO 80601

**SIGN-IN SHEET
ADAMS COUNTY
LOCAL HAZARD MITIGATION PLAN UPDATE PROJECT
HMPC #4 – Mitigation Strategy**

Wednesday February 5, 2020 @ 9:00am-11:00am

Adams County Government Center, Branter Gulch C, 4430 S. Adams County Parkway Brighton 80601

Name	Jurisdiction/Organization/Citizen	Title	Phone	E-mail
Ron Dsgood	Northglenn Police	Commander	303-450-8968	rosgood@northglenn.org
Geri Scheidt	Town of Bennett	Safety Officer	303-243-0833	gscheidt@bennett.co.us
Ron Syme	Adams OEM	E.M.	6601	rsyme@adco.gov
Greg Moser	Westminster EMC	EMC	3/658-4550	gmoser@cityofwestminster.us
Mark Thompson	DASEM	Mitigation Planner	724-635-0770	mark.thompson@state.co.us
Rebecca Franco	Denver Water	EM Manager	303 250 1575	rebecca.franco@denverwater.org
Mark Schuman	Adams County Fire	Div Chief EM	303-539-6872	mschuman@adcofd.org
David Rausch	ADCO	IT SW Manager	303 539 6840	drausch@adco.gov
Kurt Carlson	ADCO Parks & Rec	Parks Manager	303 687 8013	kcarlson@adco.gov
Michael Bean	ADCO OEM	EM Coord.	720-523-6603	mbean@adco.gov
Greg Baca	Adams IT	GIS Mgr	720-858-6844	gbaca@adco.gov
Jim Bluzyn	TC HD	EM Manager	720-2001479	jbluzyn@tchd.org
Steve Odoresio	Adams	Commissioner	720-333-1117	sodoresio@adco.gov

ADAMS COUNTY MITIGATION PLAN 2020 UPDATE

Updating the Mitigation Strategy

Revised and Updated Goals & Objectives

2014 Comprehensive Plan Goals

*plan scheduled for revision in 2020/21

Goal 1: Promote coordinated and connected growth

Goal 2: Protect the health, safety, and welfare of Adams County's inhabitants

Goal 3: Foster regional collaboration and partnerships

Goal 4: Reduce the fiscal impact of growth

Goal 5: Promote economic vitality

Goal 6: Preserve the County's natural resources

2020 Hazard Mitigation Plan Goals & Objectives

Goal 1: Increase community awareness of Adams County's vulnerability to natural hazards (comp plan goal #2 &3)

Objective 1.1: Inform and educate the community about the types of hazards Adams County is exposed to, where they occur, and recommended responses.

- Continue the OEM outreach programs
 - Coordinate public education preparedness programs and delivery
 - Maintain OEM social media (facebook, twitter, nextdoor, workplace) platforms
 - Coordinate with County Communications Department for internal & external messaging

Goal 2: Reduce vulnerability and protect people, property, and the environment to natural hazards (comp plan goal #2 & 6)

Objective 2.1: Provide mechanisms to enhance life safety

Objective 2.2: Reduce impacts to critical facilities and services

- Identify and protect critical facilities
- Protect hazardous materials facilities

Objective 2.3: Reduce impacts to existing buildings to the extent possible

Objective 2.4: Reduce impacts to future development to the extent possible

Objective 2.5: Reduce impacts to County natural resources

Objective 2.6: Reduce impacts to public health (natural health hazards, not bio-terrorism)

Goal 3: Increase internal capabilities and coordination to reduce the impacts to natural hazards (comp plan goal #1 &5)

Objective 3.1: Improve planning coordination

Objective 3.2: Improve funding coordination

Objective 3.3: Improve response coordination

Goal 4: Strengthen communication and coordination among public agencies, NGO's, businesses, and residents (comp plan goal 1 & 3)

Objective 4.1: Strengthen community and regional partnerships at all levels

Mitigation Action Selection and Prioritization Criteria

Does the proposed action protect lives or vulnerable populations?

Does the proposed action address hazards or areas with the highest risk?

Does the proposed action protect critical facilities, infrastructure, or community assets?

Does the proposed action meet multiple community objectives (multi-objective management)?

Is there a strong advocate for the action or project that will support the action's implementation?

STAPLE/E

Developed by FEMA, this method of applying evaluation criteria enables the planning team to consider in a systematic way the social, technical, administrative, political, legal, economic, and environmental opportunities and constraints of implementing a particular mitigation action. For each action, the HMPC should ask, and consider the answers to, the following questions:

Social - Does the measure treat people fairly (different groups, different generations)? Does it consider social equity, disadvantaged communities, or vulnerable populations?

Technical - Will it work? (Does it solve the problem? Is it feasible?)

Administrative - Is there capacity to implement and manage project?

Political - Who are the stakeholders? Did they get to participate? Is there public support? Is political leadership willing to support it?

Legal - Does your organization have the authority to implement? Is it legal? Are there liability implications?

Economic - Is it cost-beneficial? Is there funding? Does it contribute to the local economy or economic development? Does it reduce direct property losses or indirect economic losses?

Environmental - Does it comply with environmental regulations or have adverse environmental impacts?

Review the new mitigation actions received and use the STAPLE/E criteria to begin prioritizing each action. Add a plus sign (+) or minus sign (-) under each STAPLE/E column if you think the actions fits that criteria or not

Action	Hazard	Type of Project	Social	Technical	Admin.	Legal	Economic	Environmental	Total + signs
Develop a public awareness brochure and make available in hard copy and electronically on the town's website *Town of Bennett specific*	Multi	Education and awareness							
Dam Safety Alerting System	Dam Failure	Local plans and regulations							
Develop an extreme heat plan	Extreme Heat	Local plans and regulations							
Review existing building codes and adopt latest version of IBC when published	Multi: Earthquake, strong winds, extreme temps, thunderstorm, winter storms	Local plans and regulations							
Major drainageway planning and flood hazard delineation: Little Dry Creek, Second Creek(downstream from DIA), Brantner Gulch, DFA0054	Flood	Local plans and regulations							

Action	Hazard	Type of Project	Social	Technical	Admin.	Legal	Economic	Environmental	Total + signs
Flood Hazard Delineation Studies: Grange Hall Creek, South Platte River, Clear Creek	Flood	Local plans and regulations							
Update Outfall Systems Plans: Basin 4100 & DFA 0056, Pecos & 54th, Third Creek	Flood	Local plans and regulations							
Acquire land for conservation; provide zoning and future land use guidance to map vulnerable populations and create a toolkit to assist and educate owners/developers on development concerns to particular areas on ways to mitigate existing concerns	Flooding	Structure and infrastructure; Local plans and regulations; education and awareness							
Sheltering Equipment Upgrades - Generators	Multi: Severe Weather (winter storm, tornado, high wind)	Structure and infrastructure							
Retrofit the City's public/emergency shelter, Eagle View Adult Center to be wired to accept a generator. Purchase a generator for the shelter *City of Brighton specific	Multi: Severe Weather (winter storm, tornado, high wind)	Structure and Infrastructure							

Action	Hazard	Type of Project	Social	Technical	Admin.	Legal	Economic	Environmental	Total + signs
Update and upgrade existing snow fences; increase snowplow equipment	Winter Weather	Structure and infrastructure							
Dahlia outfall system	Flooding	Structure and infrastructure							
Regional Park Sheltering	Multi: Severe Weather (thunderstorms, tornado, high wind)	Structure and infrastructure							
96th Avenue Bridge Repair Project	Multi: Flooding, Thunderstorms, Wildland Fire	Structure and infrastructure							
York Street Phase II (E. 78th -E. 88th Ave)	Flood	Structure and infrastructure							
York Street Phase III /Coordination with UPR on bridge replacement	Flood	Structure and infrastructure							
Dahlia Pond Improvements at southwest corner of I-76	Flood	Structure and infrastructure							
2019 Logan Court Drainage Basin Storm design	Flood	Structure and infrastructure							
ADA Five Areas Project	Multi	Structure and Infrastructure							

Action	Hazard	Type of Project	Social	Technical	Admin.	Legal	Economic	Environmental	Total + signs
E. 88 th Ave and Welby Road Intersection Improvements	Winter Storm, Flood, Thunderstorm	Structure and Infrastructure							
Steele Street Project	Winter Storm, Hazmat	Structure and Infrastructure							
Dahlia St Project	Flood, Thunderstorm,	Structure and Infrastructure							
2019 E 152 nd Ave and Imboden Drainage	Flood, Thunderstorm, Winter Storm	Structure and Infrastructure							
Broadway Intersection of 62 nd Ave (minor System)	Flood, Thunderstorm, Winter Storm	Structure and Infrastructure							
Broadway at 59 th Ave (major system)	Flood, Thunderstorm, Winter Storm	Structure and Infrastructure							
Clear Creek Drop Structure	Flood, Thunderstorm	Structure and Infrastructure							
Video Inspection and Maintenance of Stormwater Infrastructure	Flood, Thunderstorm, Winter Storm	Structure and Infrastructure							

Adams County Multi-Jurisdictional Hazard Mitigation Plan 2020 Update

Town of Bennett Meeting Summary

January 23, 2020, 1:00 – 3:00 pm
Town of Bennett Town Hall
207 Muegge Way, Bennett, CO

Introductions

Present were the Adams County Office of Emergency Management (OEM) Director; the Town Engineer; Community Development; Utilities; the Town Safety Officer, and three members of the Wood consultant team.

Mitigation Planning Process and Requirements

The Town of Bennett is participating for the first time in Adams County's HMP Update. They are currently included in the Arapahoe County's HMP, which is also beginning its update process.

Hazard Identification and Risk Assessment Overview

Bennett staff reviewed the critical facilities lists, and noted that some may be missing, such as water, recreation, government facilities, and parks/open spaces; the Town Safety Officer will send more information and locations. A new Public Works administrative building is currently being built. Water well sites may be missing from the current critical facilities list too. The Town inquired on the Hazmat Tier II site present in their boundaries.

Winter Weather: The Community Development representative inquired on whether livestock damages/losses are currently being included in the crop losses figures under the Winter Weather summary statistics. Wood mentioned it would look into that in more detail.

Flood: The Town Engineer mentioned that most of Bennett is found within Zones X according to FEMA, and hence most properties and a couple town bridges would be exposed to some flood hazards. A past event with a train wash out was brought up, noting that parts of the train were never found again ([perhaps this story is related to the information on the Town's history site](#)). Major flood hazard sources were discussed, and it was agreed that Kiowa Creek's floodplains post the highest concern with regards to flooding.

The Town staff asked what it would take to join the CRS program in the future. However, since no one in Bennett currently pays NFIP premiums, there would be little benefit to joining.

Stormwater hazards and related issues should be more addressed/analyzed within the Flood chapter. The Town wishes to continue working on and expanding their Stormwater Drainage Master Plan information, and the Town Board has adopted items within their Capital Asset inventory Master Plan ([CAMP](#)).

Drought: The Town has been looking at water storage, usage, and projections with regards to drought and general water availability.

Dam Incidents: The Town suggested looking into the Aurora Reservoir Dam (aka Senac Dam, a High significance hazard dam), as it could cause inundation into Bennett if it were to fail. The Arapahoe County HMP should contain more information on this dam.

Hazardous Materials: The train runs through Bennett parallel to Colfax Avenue; if it were to derail, that would be a serious issue impacting most of the Town.

Earthquake: Bennett rated this hazard as having an overall significance of High because it would potentially lead to the shutdown of critical facilities for more than 30 days. The Town Engineer is unsure of what earthquake preparedness the buildings/structures have that are key to the town.

Land Subsidence: There might be additional coal mine data available.

Wildfire: Bennett/Watkins Fire Authority should have a Fire Mitigation Plan.

Prairie fires are a big deal in rural communities and small fires take place all the time (usually around 2 acres in size). The Kevin Mitchell Fire and Smalley Fires have been largest in the local area, around 30-40 acres.

Bennett acquired a golf course that could pose issues in terms of vulnerability to fire. It's the area on the south side of the flagpole annexation (in Arapahoe County), called Antelope Hills.

Bennett/Watkins Fire and the Town Public Works departments are key for the Town. Strasburg has a fire entity as well that could assist with future efforts.

Terrorism: The Colorado Air and Space Port could be a potential target along with DIA. The Air and Space Port would also be used for relocation of afflicted populations after major disasters elsewhere in the country.

Development of Mitigation Actions

Bennett wants to look into raising community awareness about hazards as part of a general mitigation goal.

The Intermountain Rural Electric Association, or IREA, is a utility provider that is relocating into Bennett.

There is a new Public Works facility being built in the Town. The generator currently is very old and new well sites managed by Public Works will need generators.

With regards to Bennett's 2015 mitigation actions from the Arapahoe County HMP, some updates were noted:

- 2015-08 (to join the NFIP): Completed
- 2015-11 (participation and adoption of the UDFCD/MHFD master plans): In Progress?

- Bennett uses the Mile High Flood District’s technical criteria and has adopted standards. The town is looking at a BCA for capital improvement projects and potentially joining the District in the future, but not quite yet.
- 2015-28 (wildfire mitigation planning): Progress is To Be Determined
 - The Town’s Fire Chief is looking into additional funding to continue working on this action.
- 2015-29 (stormwater drainage master plan): In Progress
 - The Town has a short/few page conforming document already. They are seeking more funding to expand the document. It is a conceptual starting point included in the CAMP document.

Project Schedule and Next Steps

More mitigation actions be coming soon, maybe Flood or Dam Incidents related. These should be in by the end of January.

The action prioritization meeting will be held in the next couple of weeks.

Questions

The meeting adjourned around 3pm.

Points of Contact for this HMP update effort:

Scott Field
Wood E&IS Project Manager
scott.field@woodplc.com
303-742-5320
2000 South Colorado Blvd, Denver, CO 80222

Ronald Sigman
Adams County Emergency Manager
rsigman@adcogov.org
720-523-6601
4430 S. Adams County Pkwy, Brighton, CO 80601



**January 27, 2020
Adams County LEPC Meeting
Agenda**

Time: 9:00 a.m. - 11:00 a.m.

Place: Adams County Government Center: Conference Center– Brantner Gulch A
4430 South Adams County Parkway, Brighton, CO 80601

1. Call Meeting to Order/ Introductions ~ Glenn Grove
2. Approval of August 2019 Meeting Minutes ~ Glenn
3. Legislative / Regulatory Update ~ All
4. Partner Updates
 - Adams County ~ Adams County Representatives
 - Local Agencies ~ Agency Representatives
 - Local Chemical Facilities ~ Facility Representatives
 - Tri-County Health Dept. ~ TCHD Representatives
 - State of Colorado ~ State Representatives
 - Environmental Protection Agency ~ EPA Representatives
 - Others
5. Continuing Business
 - ESF 10 – Hazardous Material Response Plan Update
 - Spill Reporting - Update on Recent Spills, Compiled 2019 reports

Presentation: *Scott Field, Wood Environment & Infrastructure Solutions, Inc– Hazard Mitigation Plan Overview*

6. Old Business
7. New Business
 - Discussion of future strategic direction of LEPC – Ron Sigman
 - Board Membership terms and re-appointments
 - Discussion of date for next LEPC Meeting
 - Discussion of May meeting alternates
8. Additional Announcements ~ Chair
9. Adjournment ~ Glenn

Parking Instructions: Parking is available in the northwest lot which is outside of the Conference Center.

Pursuant to the Colorado Open Meetings Act, this agenda was posted in the following locations; Adams County Administration Building, main lobby, and the LEPC website on or before January 20, 2020.



HAZARD MITIGATION PLAN

MENU

Deputy County Manager - Administrative Services Home

Community Safety & Well-Being Home

2020 Census >

Community Corrections

Criminal Justice Coordinating Council (CJCC) >

Emergency Management >

Neighborhood Services >

Help the county prepare for natural and human-caused hazards.

Adams County is in the process of updating its Hazard Mitigation Plan. We're seeking information from the public and stakeholders to better understand our vulnerabilities, as well as opportunities to reduce the impacts of hazards before they occur.

The Hazard Mitigation Plan analyzes our vulnerabilities to natural and manmade hazards and identifies proactive mitigation actions the county, towns and cities can take to minimize impacts to people, property and critical facilities.

Hazard Mitigation Plan Survey

Please take this survey by Jan. 3, 2020.

Hazard Mitigation Plan Survey



We need your input! We're seeking information from the public and stakeholders to better understand our vulnerabilities, as well as opportunities to reduce the impacts of hazards before they occur. Please take our short, five-question [Hazard Mitigation Plan Survey](#). The deadline is Friday, Jan. 3.



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@AdamsCountyGov

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Adams County Government, CO

30 mins · 🌐

We need your input! We're seeking information from the public and stakeholders to better understand our vulnerabilities, as well as opportunities to reduce the impacts of hazards before they occur. Please take our short, five question Hazard Mitigation Plan Survey: <http://www.adcogov.org/hazard-mitigation-plan>. The deadline is January 3, 2020.



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@adamscountygov

With rich tradition and history, Adams County offers the best of rural & suburban life – vibrant cities, quiet towns & miles of recreation. #AdamsCo

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Joined May 2012

Adams County Gov't
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We're seeking information to better understand our vulnerabilities, as well as opportunities to reduce the impacts of hazards before they occur. Please take our short, five question Hazard Mitigation Plan Survey: adcogov.org/hazard-mitigat.... The deadline is January 3, 2020.



10:30 AM - 9 Dec 2019

1 Like

Reply Retweet Like



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Adams County Hazard Mitigation Plan Update Public Input Survey

Help the Town of Bennett prepare for natural and human-caused hazards.

Adams County is in the process of updating its Hazard Mitigation Plan. We're seeking information from the public and stakeholders to better understand our vulnerabilities, as well as opportunities to reduce the impacts of hazards before they occur.

The Town of Bennett is asking residents to participate in a [short survey](#). The deadline to answer is Jan. 3, 2020. The purpose of this survey is to collect information from the public and stakeholders to better understand the vulnerabilities within the County as well as solicit input on needs to best mitigate, or reduce, the impacts of hazards before they occur.

[PLEASE TAKE THE SURVEY ONLINE HERE.](#)

The Hazard Mitigation Plan analyzes our vulnerabilities to natural and man-made hazards and identifies proactive mitigation actions the County, Towns and Cities can take to minimize impacts to people, property and critical facilities.



Contact Us [Subscribe to our Newsletter](#)





Town of Bennett · Bennett Park and Recreation District
 Bennett School District · Morgan Community College
 Bennett Community Market · Jamie Zerr-Lockwood
 Communities that Care

Bennett Arts Council

The goal of the Bennett Arts Council is to emphasize the cultural and creativity happening in the Town of Bennett.

Links

- State Services 
- Pay Online 
- Quick Links for Town Forms 
- Community Links 
- Utilities 

What's New

Adams County Hazard Mitigation Plan Update Public Input Survey
 Help the Town of Bennett prepare for natural and human-caused hazards.

Potential Candidate Election Informational Meeting
 The Town of Bennett will have an open house and informational meeting 6:00 pm, Tuesday, December 10, 2019.

Town Hall Closed Tuesday Nov. 26, 2019. Winter Weather Advisory until 5 p.m. November 26, 2019
 The Blizzard Warning issued for Bennett has been downgraded to a Winter Weather Advisory and will last until 5 p.m. Tuesday, November 26, 2019.

[view all](#)



Facebook Feed

Town of Bennett, C...
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Town of Bennett, Colorado

Requests for Proposals

CURRENT RFP 

Current and past RFP's can be found [here](#).

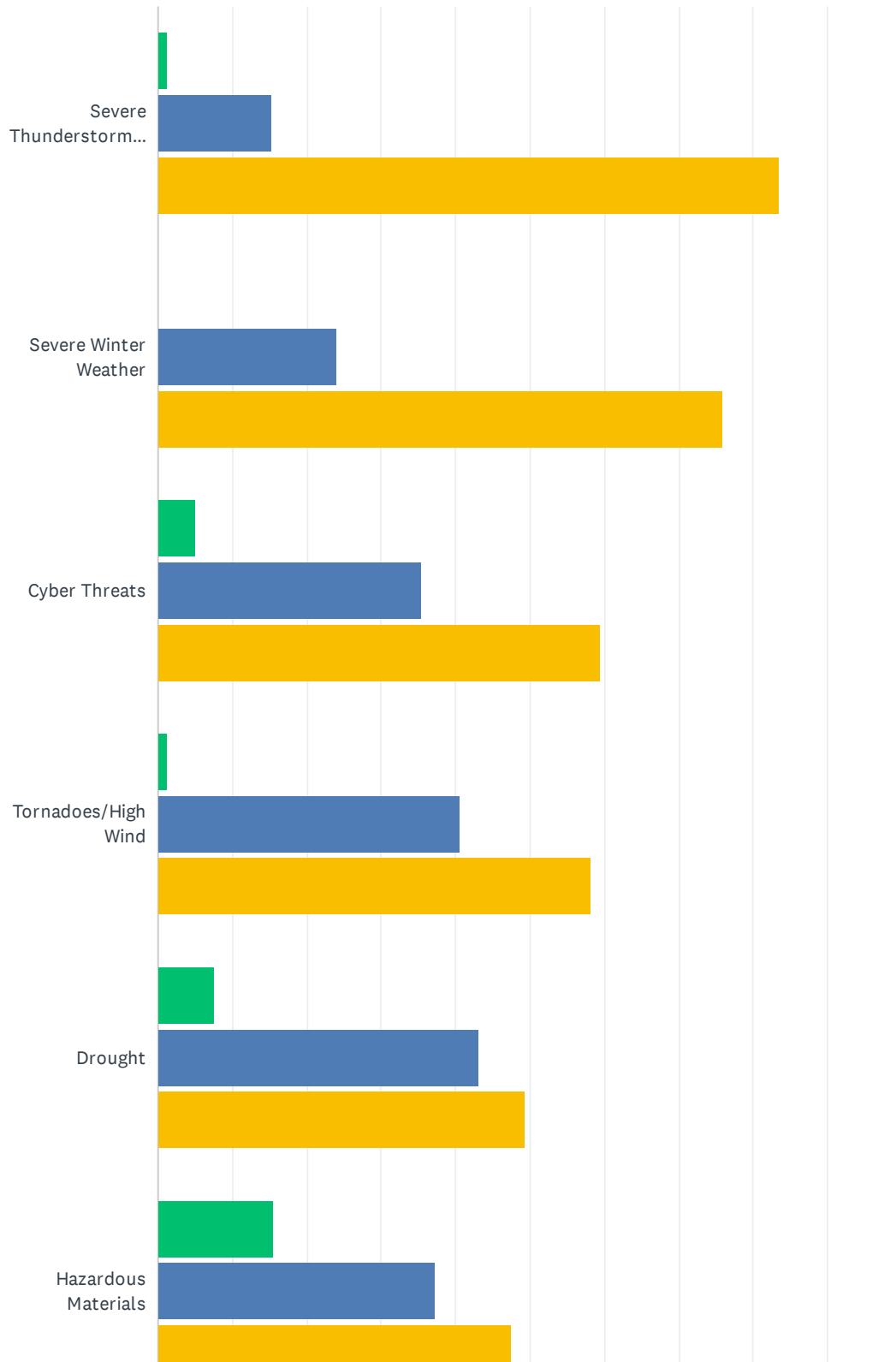
Animal Control

Lost a pet? Found a pet?

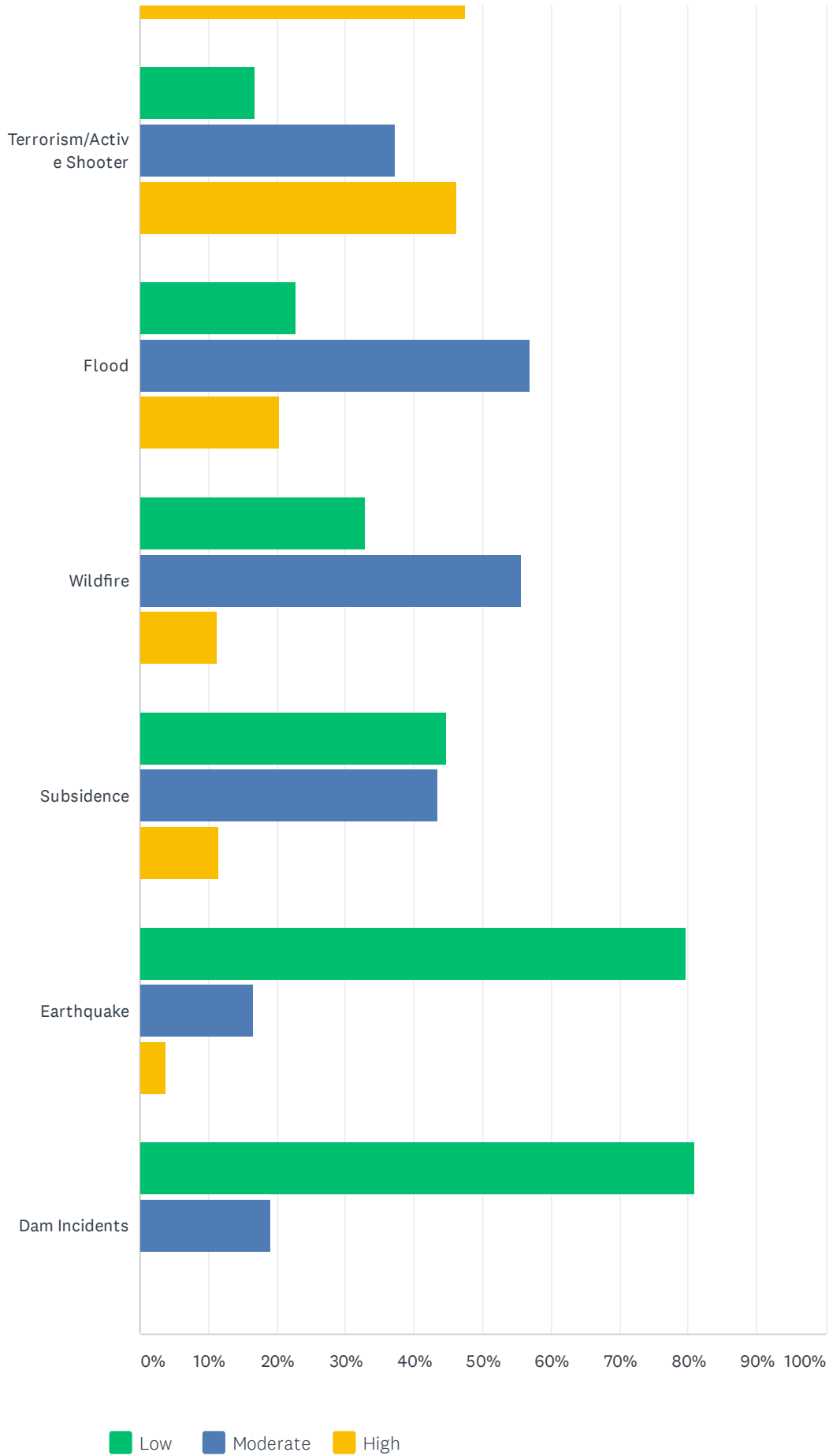
CLICK HERE

Q1 The hazards addressed in the Hazard Mitigation Plan update are listed below. Please indicate the level of significance in Adams County that you perceive for each hazard.

Answered: 79 Skipped: 0



Adams County Hazard Mitigation Plan Update Public Input Survey



Adams County Hazard Mitigation Plan Update Public Input Survey

	LOW	MODERATE	HIGH	TOTAL	WEIGHTED AVERAGE
Severe Thunderstorms (Includes: heavy rain, lighting and hail)	1.27% 1	15.19% 12	83.54% 66	79	2.82
Severe Winter Weather	0.00% 0	24.05% 19	75.95% 60	79	2.76
Cyber Threats	5.06% 4	35.44% 28	59.49% 47	79	2.54
Tornadoes/High Wind	1.27% 1	40.51% 32	58.23% 46	79	2.57
Drought	7.59% 6	43.04% 34	49.37% 39	79	2.42
Hazardous Materials	15.38% 12	37.18% 29	47.44% 37	78	2.32
Terrorism/Active Shooter	16.67% 13	37.18% 29	46.15% 36	78	2.29
Flood	22.78% 18	56.96% 45	20.25% 16	79	1.97
Wildfire	32.91% 26	55.70% 44	11.39% 9	79	1.78
Subsidence	44.87% 35	43.59% 34	11.54% 9	78	1.67
Earthquake	79.75% 63	16.46% 13	3.80% 3	79	1.24
Dam Incidents	81.01% 64	18.99% 15	0.00% 0	79	1.19

#	OTHER (PLEASE SPECIFY)	DATE
1	fracking and its impact on land, wells, people - high impact!	1/3/2020 2:15 PM
2	Bad roads	12/12/2019 9:21 AM
3	Mental health crisis	12/9/2019 11:44 PM
4	CPS taking children illegally and failure to protect by law	12/9/2019 5:18 PM
5	Oil and gas leaks from underground pipelines, water contamination and other oil and gas risks.	12/9/2019 1:17 PM
6	Solar EMP damaging electrical grid	12/9/2019 12:50 PM

Q2 Do you have information on specific hazard issues/problem areas that you would like the planning committee to consider? Note the jurisdiction to which it applies:

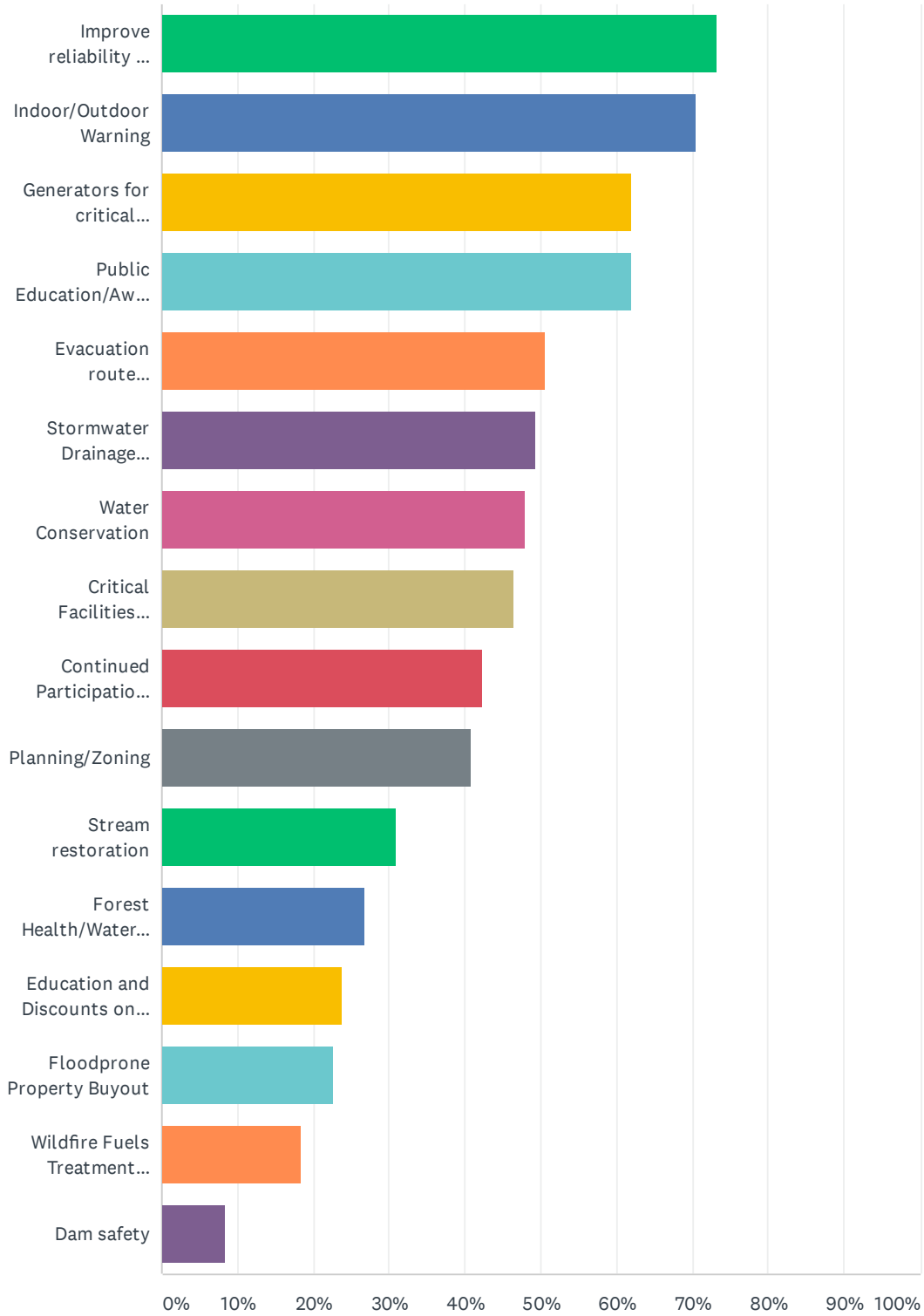
Answered: 21 Skipped: 58

#	RESPONSES	DATE
1	W 84th Ave floods a lot during rain storms, possibly due to how hilly it is? The water rushes and pools on the roads.	1/2/2020 5:01 PM
2	Mo	12/17/2019 4:11 PM
3	Suncor issues and plants in commerce city	12/17/2019 3:05 PM
4	None	12/12/2019 9:26 AM
5	Roads so bad sometimes impassable for emergency services	12/12/2019 9:21 AM
6	Gang and Organized Crime	12/10/2019 9:45 AM
7	I was shocked to learn that Adams County is at the top in the state for tornados, and we have no sirens.	12/10/2019 9:34 AM
8	No	12/10/2019 8:51 AM
9	No	12/9/2019 9:54 PM
10	Major freeways such as I-25 for chemical hazards	12/9/2019 9:04 PM
11	Tornado sirens can barely be heard in Thornton	12/9/2019 8:48 PM
12	N/A	12/9/2019 6:49 PM
13	No	12/9/2019 4:56 PM
14	Tornado sirens in Strasburg	12/9/2019 4:55 PM
15	No	12/9/2019 4:11 PM
16	Homeless encampments near Platte containing biohazardous such as human waste, needles and garbage	12/9/2019 4:06 PM
17	Oil and Gas be so close to highly populated areas.	12/9/2019 1:53 PM
18	Not yet	12/9/2019 1:17 PM
19	Read on Solar EMP's and Carrington Effect.	12/9/2019 12:50 PM
20	Railroad train accidents and semi trucks	12/9/2019 12:35 PM
21	Flooding is the city view neighborhood during sever storms	12/9/2019 11:41 AM

Q3 Mitigation is defined as actions that can be taken to reduce or eliminate the long-term risk to hazards, prior to an event occurring. The following types of mitigation actions may be considered in Adams County. Please indicate the types of mitigation actions that you think should have the highest priority in the Adams County Hazard Mitigation Plan.

Answered: 71 Skipped: 8

Adams County Hazard Mitigation Plan Update Public Input Survey



Adams County Hazard Mitigation Plan Update Public Input Survey

ANSWER CHOICES	RESPONSES	
Improve reliability of communications systems	73.24%	52
Indoor/Outdoor Warning	70.42%	50
Generators for critical facilities	61.97%	44
Public Education/Awareness	61.97%	44
Evacuation route development	50.70%	36
Stormwater Drainage Improvements	49.30%	35
Water Conservation	47.89%	34
Critical Facilities Protection	46.48%	33
Continued Participation in the National Flood Insurance Program	42.25%	30
Planning/Zoning	40.85%	29
Stream restoration	30.99%	22
Forest Health/Watershed Protection	26.76%	19
Education and Discounts on Flood Insurance	23.94%	17
Floodprone Property Buyout	22.54%	16
Wildfire Fuels Treatment projects	18.31%	13
Dam safety	8.45%	6
Total Respondents: 71		

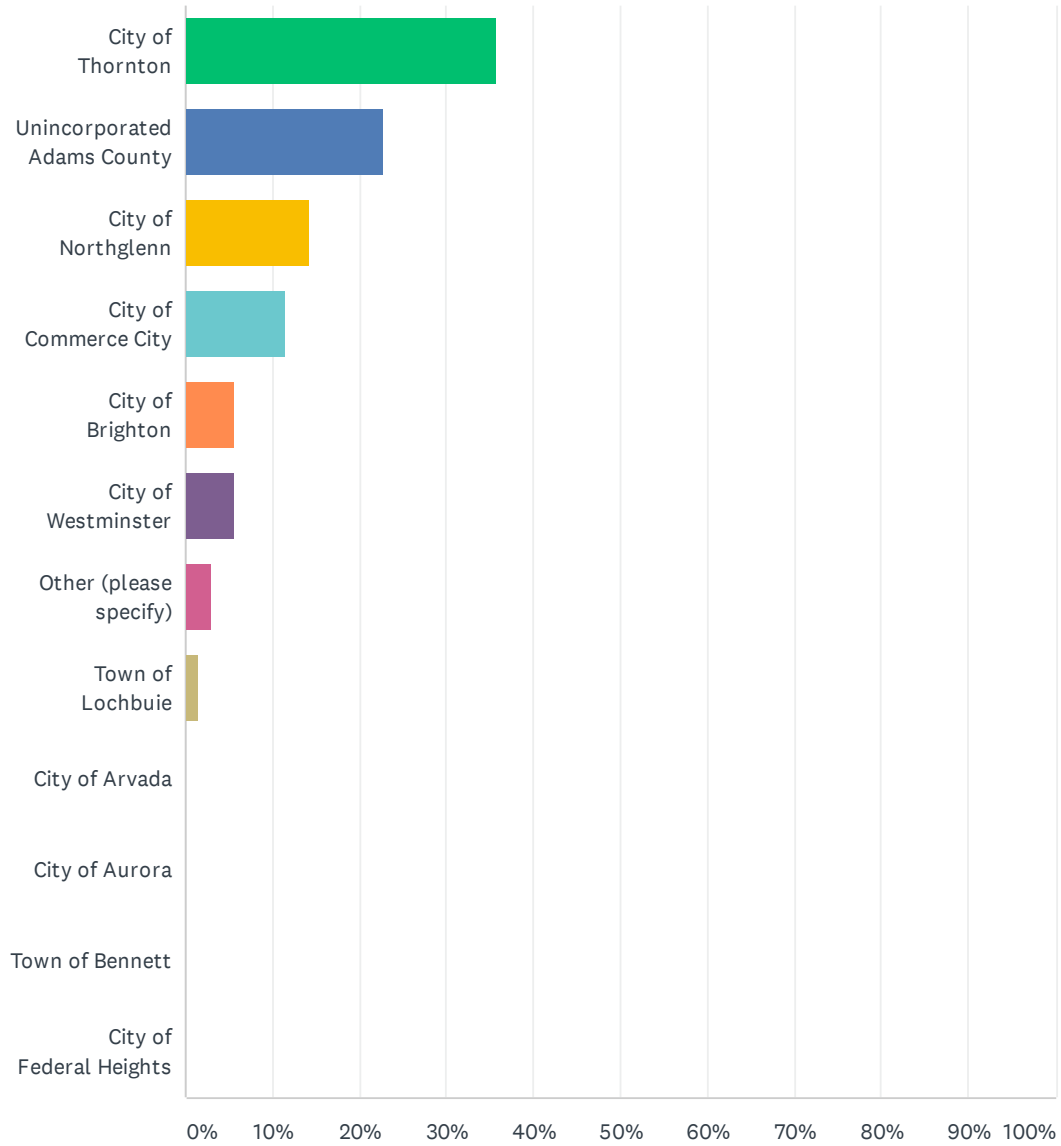
Q4 Please comment on any other pre-disaster mitigation actions that the planning committee should consider for reducing future losses caused by natural disasters:

Answered: 8 Skipped: 71

#	RESPONSES	DATE
1	Not having day to day law enforcement ems fire encrypted. The public can hear warnings quicker and better informed	12/17/2019 3:07 PM
2	Landscaped road medians and road sides in Thornton are notorious for irrigation systems that are broken and wastecwater all over the roads. That seems like an easy target for water conservation. It's shocking..	12/10/2019 9:39 AM
3	Strong cybersecurity defense against ransomware	12/10/2019 6:07 AM
4	Another Dam downstream in the Platt.	12/9/2019 8:38 PM
5	I'm curious about hazardous materials. Maybe I'm not educated enough on the topic, but for having so many railways and farm land around I feel like the preparedness plan in the case of a spill should be better communicated.	12/9/2019 8:04 PM
6	N/A	12/9/2019 6:50 PM
7	Radon mitigation discounts	12/9/2019 4:56 PM
8	Only know specifically river run(west) subdivision needs one or two emergency routes to evacuate if a hazardous accident happens on the train tracks or hwy 85. It can be a dangerous situation if evacuation is necessary.	12/9/2019 12:40 PM

Q5 Indicate the community you live in

Answered: 70 Skipped: 9



Adams County Hazard Mitigation Plan Update Public Input Survey

ANSWER CHOICES	RESPONSES	
City of Thornton	35.71%	25
Unincorporated Adams County	22.86%	16
City of Northglenn	14.29%	10
City of Commerce City	11.43%	8
City of Brighton	5.71%	4
City of Westminster	5.71%	4
Other (please specify)	2.86%	2
Town of Lochbuie	1.43%	1
City of Arvada	0.00%	0
City of Aurora	0.00%	0
Town of Bennett	0.00%	0
City of Federal Heights	0.00%	0
TOTAL		70

#	OTHER (PLEASE SPECIFY)	DATE
1	Work in all but live elsewhere	12/10/2019 4:39 AM
2	Strasburg	12/9/2019 4:56 PM

Carr, Amy

From: Ronald Sigman <RSigman@adcogov.org>
Sent: Tuesday, December 17, 2019 4:36 PM
To: Field, Scott
Cc: Carr, Amy
Subject: Re: Neighboring counties

I have sent invites to all neighboring jurisdictions and county municipal agencies for all of our meetings. Thornton has attended and I've had a few others accept but not show up.

From: Field, Scott <scott.field@woodplc.com>
Sent: Tuesday, December 17, 2019 4:30:54 PM
To: Ronald Sigman <RSigman@adcogov.org>
Cc: Carr, Amy <amy.carr@woodplc.com>
Subject: Neighboring counties

Please be cautious: This email was sent from outside Adams County

Ron,
One thing I forgot to talk to you about last week is there's a FEMA requirement to invite/involve the neighboring jurisdictions in the planning process. Typically this just means inviting the EMs of the surrounding counties to review the draft. But it's also not a bad idea to send them a notice earlier in the process just to give them a heads up that there is a process. Maybe something along these lines:

This email is to advise you that Adams County has started the process of updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The County Office of Emergency Management is taking the lead on the project in coordination with the Hazard Mitigation Planning Committee (HMPC) comprised of various County departments and other stakeholders. Professional planning assistance is being provided by Wood Environment & Infrastructure Solutions, Inc.

As a neighboring jurisdiction, you are an important stakeholder in this process and we welcome your input! If you would like to be invited to HMPC meetings, please let me know and we will add you to our list. We will also be sending you a copy of the draft plan for youu review and comment when it is ready. If you have any other comments or information you would like to share, please feel free to contact me by phone or email.

W. Scott Field, CEM
Senior Emergency Management Specialist
Wood Environment & Infrastructure Solutions, Inc
Hazard Mitigation and Emergency Management Program
2000 South Colorado Blvd, Suite 2-1000, Denver, CO, 80222
Office: 303-742-5320
Mobile: 720-569-9266
scott.field@woodplc.com
www.woodplc.com

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From: [Ronald Sigman](#)
To: [Alisha Reis](#); [Carr, Amy](#); [Andres M. Carrera](#); [blenderi@auroragov.org](#); [Brandy Foley](#); [Brian Dearth](#); [Byron Fanning](#); [Chris Kline](#); [Chris Laws](#); [christopher.hudak@state.co.us](#); [cmcmahill@suncor.com](#); [Cory Stark](#); [Crystal Elliott](#); [Dave Skuodas](#); [David Rausch](#); [Debbie Haines](#); [dross@sacfd.org](#); [earlcumley@bennettfirerescue.org](#); [ejanes@arvada.org](#); [Gabe Rodriguez](#); [gkgrove@co.jefferson.co.us](#); [gordie.olson@cityofhornton.net](#); [Greg Baca](#); [Greg Labrie](#); [Greg Moser](#); [Heidi M. Miller](#); [Juliana J. Archuleta](#); [Julie.Beyers@state.co.us](#); [Ken Musso](#); [Kirk Dominic](#); [kstewart@udfcd.org](#); [Kurt Carlson](#); [Kvlin Mueller](#); [Linda Hawkins](#); [Lisa Culpepper](#); [logan sand](#); [Libby Tart](#); [markw.thompson@state.co.us](#); [marta.blancocastano@woodplc.com](#); [Martin.Postma@cityofhornton.net](#); [Michael Bean](#); [Mike Holub](#); [mnichols@adcom911.org](#); [mschuman@acfpd.org](#); [Paolo Diaz](#); [Ray Gonzales](#); [Rebecca Zamora](#); [Rebecca.franco@denverwater.org](#); [Ron Osgood](#); [Ronald Sigman](#); [Ross Riley](#); [Ryan Doyle](#); [RYoung@crgov.com](#); [Sandra K. Dean](#); [Field, Scott](#); [solomon.rich@sablealturafire.org](#); [Stephanie Caulk](#); [Stephanie Hackett](#); [Steve O'Dorisio](#); [tbeach@seweldfire.org](#); [Thomas Swingle](#); [TPatterson@acfpd.org](#); [Wayne Belohlav](#)
Cc: [Stephanie Hackett](#); [Greg Moser](#); [Ryan Doyle](#); [Matt Chapman](#); [Kirk Dominic](#); [Ron Osgood](#); [Gerilynn Scheidt](#) ([gscheidt@bennett.co.us](#)); [Matt Rivera](#); [Jim Siedlecki](#)
Subject: Draft Hazard Mitigation Plan to be posted for public review
Date: Wednesday, June 10, 2020 10:32:55 AM

CAUTION: External email. Please do not click on links/attachments unless you know the content is genuine and safe.

Good Morning,

I just wanted everyone to know that our draft Hazard Mitigation Plan is ready to be posted on our County webpage for public review. This is one of the final steps before we seek plan approval. I will be working with our Communications Dept to get it posted and it will probably be available for about two weeks.

You may review the draft at

https://drive.google.com/drive/folders/13tOrDiuUPKQC9aIWL_IxNvJQsdD8LLJt?usp=sharing

There will also be a short public feedback collector posted with the plan

https://bit.ly/Adams_HMP_Public_Feedback_Survey

Thank You,

Ron Sigman, CO-CEM

Emergency Manager, *Office of Emergency Management*

ADAMS COUNTY, COLORADO

4430 South Adams County Parkway, 1st Floor, Suite C1900


Brighton, CO 80601


o: 720.523.6601 m: 720.988.4148 | rsigman@adcogov.org

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2020 HAZARD MITIGATION PLAN DRAFT FOR PUBLIC REVIEW AND COMMENT

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Posted on: June 11, 2020

Adams County has developed an update to its 2015 Hazard Mitigation Plan in compliance with the Disaster Mitigation Act of 2000. The updated 2020 Hazard Mitigation Plan Draft is now available for public review and comment before it is finalized.

View the draft and the public comment page:

- [Adams County Mitigation Plan - Public Review Draft](#)
- [Feedback Survey for Adams County Mitigation Plan Update](#)

Adams County Hazard Mitigation Plan

Public Review Draft

May 2020

Adams County, Colorado



Feedback Survey for Adams County Hazard Mitigation Plan Update

2

Responses

00:44

Average time to complete

Closed

Status

1. Select affiliation (select one):

- Member of the Public 2
- Private industry 0
- Nonprofit 0
- Government-Local 0
- Government-State 0
- Government-Federal 0



2. Please provide comments regarding the Draft Update of the Adams County Hazard Mitigation Plan here:

1

Responses

Latest Responses
"Jrydzeski@msn.com"

3. Please provide your contact information (Name and email address)

0

Responses

Latest Responses

Adams County Planning Team Roster

LAST NAME	FIRST NAME	ORGANIZATION	ROLE	EMAIL	OFFICE PHONE	CELL PHONE	Invited to Participate?
Sigman	Ron	ADCO OEM	Emergency Manager	rsigman@adcogov.org	720-523-6601	720-988-4148	Y
Field	Scott	Wood E&IS	Consultant	scott.field@woodplc.com	303-742-5320	720-569-9266	Y
Carr	Amy	Wood E&IS	Consultant	amy.carr@woodplc.com	303-630-0796		Y
Blanco Castano	Marta	Wood E&IS	Consultant	marta.blancocastano@woodplc.com	303-630-0768		Y
Bean	Michael	ADCO OEM	EM Coordinator	mbean@adcogov.org	720-523-6602	720-548-8165	Y
Tart-Schoenfelder	Libby	ADCO - CED	Long-range Planner	LTart-Schoenfelder@adcogov.org	720-523-6858		y
Scheidt	Gerilynn	Town of Bennett	Public Works	gscheidt@bennett.co.us	(303) 644-3249 ext 1004		y
Miller	Heidi	ADCO CMO	County Attorney	HMiller@adcogov.org	720-523-6329		y
Culpepper	Lisa	ADCO Treasurer	Treasurer's office	LCulpepper@adcogov.org	720-523-6162		y
Forsman	Karson	ADCO Communications	Communications Specialist	KForsman@adcogov.org	720-523-6786		Y
Foley	Brandy	ADCO Public Works	Stormwater Inspector	BFoley@adcogov.org			y
Janes	Enessa	Arvada OEM	EM Coordinator	ejanes@arvada.org			Y
Fanning	Byron	ADCO Parks	Director	BFanning@adcogov.org	303-637-8006		y
Zygielbaum	Josh	ADCO Clerk & Recorder	Clerk & Recorder	JZygielbaum@adcogov.org			y
Musso	Ken	ADCO Assessor	County Assessor	KMusso@adcogov.org	720-523-6125		y
Dearth	Brian	ADCO CMO	Comm Specialist	BDearth@adcogov.org	720-523-6281		y
Schuman	Mark	ADCO Fire	Chief - Training	mschuman@acfpd.org			y
Rausch	David	ADCO Public Works	Infrastructure & Stormwater	DRausch@adcogov.org	720-523-6840		y
Ross	Derek	S. Adams Fire		dross@sacfd.org			y
Solomon	Rich	Sable Altura Fire	Chief	solomon.rich@sablealturafire.org			y
Doyle	Ryan	Thornton OEM	Emergency Manager	Ryan.Doyle@cityofthornton.net			y
Patterson	Troy	Adams County Fire	Chief	TPatterson@acfpd.org			y
Postma	Martin	City of Thornton	Long-range Planner	Martin.Postma@cityofthornton.net	303-538-7631		y
Archuleta	Juliana	ADCO Public Works	Stormwater	MJArchuleta@adcogov.org	720-523-6869		y
Mueller	Kylin	ADCO CMO	Management Analyst	KM Mueller@adcogov.org	720-523-6864		y
Lenderink	Brandon	Aurora OEM	Coordinator	blenderi@auroragov.org			y
O'Dorisio	Steve	ADCO Commissioner	Commissioner	SODorisio@adcogov.org	720-523-6100		y
Rodriquez	Gabe	ADCO CMO	Cultural Affairs Liaision	GRodriguez@adcogov.org	720-523-6846		y
Beach	Tom	SE Weld Fire	Chief	tbeach@seweldfire.org			y
Reis	Alisha	ADCO CMO	Dep. County Manager	AReis@adcogov.org	720-523-6293		y
Young	Rick		Adams County DA	RYoung@crgov.com			y
Hackett	Stephanie	Brighton OEM	Emergency Manager	shackett@brightonco.gov			y
Dean	Sandra	ADCO Treasurer	Treasurer's Office	SDean@adcogov.org			y
Chabra	Aman						y
Appleberry	Sheronda	ADCO Coroner	Coroner's Office	coronerquestions@adcogov.org	303-655-3533		y
Gonzales	Raymond	ADCO CMO	County Manager	RGonzales@adcogov.org	720-523-6829		y
Ostler	Bryan	ADCO CMO	Dep. County Manager	BOstler@adcogov.org	720-523-6792		y

Adams County Planning Team Roster

Kline	Chris	ADCO CMO	Dep. County Manager	CKline@adcogov.org	720-523-6188		y
Holub	Mike	ADCO Facilities	Director	MHolub@adcogov.org	720-523-6004		y
Dominic	Kirk	Commerce City OEM	Emergency Manager	kdominic@c3gov.com			y
Laws	Chris	ADCO Sheriff's Office	Commander	CLaws@adcogov.org			y
Gallamore	L.						y
Thompson	Mark	DHSEM	Mitigation Planner	markw.thompson@state.co.us			y
Bodane	Mark	Brighton Fire	Chief	mbodane@brightonfire.org			y
Askenazi	Michelle	Tri-County Health	Manager	maskenazi@tchd.org			y
Belohlavy	Wayne	North Metro Fire	LEPC co-chair	wbelohlavy@northmetrofire.org			y
Olson	Gordie	City of Thornton Fire	Chief	gordie.olson@cityofthornton.net			y
Baca	Greg	ADCO GIS	GIS Manager	GBaca@adcogov.org	720-523-6144		y
Nichols	Martha	ADCOM 911	Communications Specialist	mnichols@adcom911.org			y
Hawkins	Linda	ADCO CMO	Digital Media Specialist	LHawkins@adcogov.org	720-523-6104		y
Haines	Debbie	ADCO Retirement	Executive Director	DHaines@adcogov.org	720-523-6289		y
Hodge	Mary	ADCO Commissioner	Commissioner	MHodge@adcogov.org	720-523-6100		y
Bennett	Carrigan	Aurora OEM	Coordinator	cbbennet@auroragov.org			y
Diaz	Paulo	ADCO Poverty Reduction	Manager	PDiaz@adcogov.org	720-523-6815		y
Swingle	Thomas	ADCO Assessor	Appraisal Manager	TSwingle@adcogov.org	720-523-6732		y
Grove	Glenn	Adams/Jeffco Hazmat	LEPC Chair	gkgrove@co.jefferson.co.us			y
Reigenborn	Rick	ADCO Sheriff's Office	County Sheriff	RReigenborn@adcogov.org			Y
Moser	Greg	Westminster OEM	Emergency Manager	gmoser@cityofwestminster.us	303-653-4550		Y
Chapman	Matt	Aurora OEM	Emergency Manager	mchapman@auroragov.org			Y
Sullivan	Kristin	ADCO Public Works	Director Public Works	KSullivan@adcogov.org			Y
Elliot	Crystal	ADCO Poverty Reduction	Census Liaison	CElliott@adcogov.org	720-523-6816		Y
McMahill	Christopher	SunCor Fire	Chief	cmcmahill@suncor.com			Y
Stark	Cory	DHSEM	RFM-NCR	cory.stark@state.co.us			Y
Cumley	Earl	Bennett Fire	Chief	earlcumley@bennettfirerescue.org			Y
Osgood	Ron	Northglenn PD	Commander	rosgood@northglenn.org			y
Covey	Herb	ADCO Human Services	Dep Director	hcovey@adcogov.org			y
Hudak	Christopher	DHSEM	Mitigation Planner	christopher.hudak@state.co.us	303-877-8313		y
Beyers	Julie	DHSEM	Mitigation Planner	Julie.Beyers@state.co.us	720-454-6483		y
Zamora	Rebecca	ADCO CSWB	ADCO CMO-liaison	rzamora@adcogov.org	720-523-6991		Y
Dahlman	Ben	ADCO Finance	Director	bdahlman@adcogov.org	720-523-6280		y
Riley	Ross	North Metro Fire	Chief	rriley@northmetrofire.org	303-252-3500		y

APPENDIX B: HMPC MEMBERS

Department/Agency	Title	Name	Participating Jurisdiction	Stakeholder	Meetings ¹ Attended
Adams County					
Office of Emergency Management ²	Emergency Manager	Ron Sigman	X		Kickoff; Mtg#2; Mtg#3; 1/23/20; Mtg#4
Office of Emergency Management ²	Emergency Management Coordinator	Michael Bean	X		Kickoff; Mtg#2; Mtg#3; Mtg#4
Community & Economic Development ^{2,3}	Long-Range Planner	Libby Tart-Schoenfelder	X		Kickoff; Mtg #2; Mtg#3
Assessor	County Assessor	Ken Musso	X		Kickoff
Assessor	Appraisal Manager	Thomas Swingle	X		Kickoff; Mtg#2
County Managers Office ^{2,3}	Management Analyst	Kylin Mueller	X		Kickoff; Mtg#2
County Managers Office ^{2,3}	Dep. County Manager	Alisha Reis	X		Kickoff; Mtg#2
County Managers Office ^{2,3}	Neighborhood Liaison	Rebecca Zamora	X		Kickoff
County Managers Office ^{2,3}	Poverty Reduction and Neighborhood Outreach	Paolo Diaz	X		Mtg#2
Communications ²	Communication Specialist	Karson Forsman	X		
Coroner's Office	Chief Deputy Coroner	Sheronda Appleberry	X		Kickoff
Facilities & Fleet Management ²	Director	Mike Holub	X		Mtg#4
Finance ²	Director	Benjamin Dahlman	X		Kickoff
Information Technology & Innovation ²	GIS Manager	Greg Bacca	X		Kickoff; Mtg #3; Mtg #4
Parks, Open Space, and Cultural Arts ^{2,3}	Director	Byron Fanning	X		Kickoff
Parks, Open Space, and Cultural Arts ^{2,3}	Parks Manager	Kurt Carlson	X		Mtg#2; Mtg#4
Public Works ²	Infrastructure & Stormwater Manager	David Rausch	X		Kickoff; Mtg #2; Mtg #3; Mtg #4
Public Works ²	Stormwater Inspector	Brandy Foley	X		

¹ Those that are not listed as attending a meeting participated in the planning process in other ways such as emails, phone calls and face-to-face meetings with the County Project Manager and consultants.

² Local or Regional Agency involved in hazard mitigation activities.

³ Agency with authority to regulate development.



Department/Agency	Title	Name	Participating Jurisdiction	Stakeholder	Meetings ¹ Attended
Public Works ²	Stormwater Inspector	Juliana Archuleta	X		
Adams Fire Protection District ²	Chief-Training	Mark Schuman	X		Mtg#2;Mtg#4
Adams Fire Protection District ²	Chief	Troy Patterson	X		
Board of County Commissioners ^{2,3}	County Commissioner – District 4	Steve O’Dorisio	X		Mtg#4
Town of Bennett					
Public Works ²	Town Safety Officer	Gerilynn Scheidt	X		Kickoff; Mtg#2; Mtg#3; 1/23/20; Mtg#4
Public Works ²	Town Engineer	Dan Giroux	X		1/23/20
Public Works ²	Utilities Supervisor	Ricky Martinez	X		1/23/20
Community Development ^{2,3}	Manager	Deb Merkle	X		1/23/20
Bennett Fire Rescue ²	Chief	Earl Cumley	X		
City of Brighton					
Brighton Office of Emergency Management ²	Emergency Management Coordinator	Norman Brown	X		Mtg#2
Brighton Office of Emergency Management ²	Emergency Manager	Stephanie Hackett	X		Mtg#3
Brighton Fire ²	Chief	Mark Bodane	X		
City of Commerce City					
Office of Emergency Management ²	Emergency Manager	Kirk Dominic	X		Mtg#2;Mtg#3
Denver Water					
Administrative Services ²	Manager of Emergency Management	Rebecca Franco	X		Mtg#2; Mtg#4
Administrative Services ²	Emergency Management Specialist	Lisa Ciazza	X		Mtg#3
Stakeholders					
Southeast Weld Fire Protection District ²	Chief	Tom Beach		X	
Adams/Jeffco HazMat ²	LEPC Chair	Glenn Grove		X	
North Metro Fire Protection District ²	LEPC co-chair	Wayne Belohlavy		X	Mtg#2
North Metro Fire Protection District ²	Chief	Ross Riley		X	
City of Thornton ^{2,3}	Long-Range Planner	Martin Postma		X	Kickoff; Mtg#2; Mtg#3



Department/Agency	Title	Name	Participating Jurisdiction	Stakeholder	Meetings ¹ Attended
City of Thornton ²	Emergency Manager	Ryan Doyle		X	
City of Thornton ²	Fire Chief	Gordie Olson		X	
City of Westminster ²	Emergency Manager	Greg Moser		X	Kickoff; Mtg#4
City of Aurora ²	Emergency Management Coordinator	Brandon Lenderink		X	
City of Aurora ²	Emergency Management Coordinator	Carrigan Bennett		X	
City of Aurora ²	Emergency Manager	Matt Chapman		X	
Tri-County Health ²	Emergency Preparedness Planner	Matt Newman		X	Mtg#2; Mtg#3
Tri-County Health ²	Emergency Preparedness Coordinator	Sara Garrington		X	Mtg#4
Northglenn Police Department ²	Commander	Ron Osgood		X	Mtg#3
Mile High Flood District ^{2,3}	Watershed Manager	Dave Skudoas		X	Mtg#2
Mile High Flood District ^{2,3}	Planning Intern	Stephanie Caulk		X	Mtg#2
Mile High Flood District ^{2,3}	Program Manager, Flood Warning and Information Services	Kevin Stewart		X	Mtg#3; Mtg#4
City of Arvada Office of Emergency Management ²	Emergency Management Coordinator	Enessa Janes		X	
South Adams Fire Protection District ²	Battalion Chief	Derek Ross		X	
Sable Altura Fire ²	Chief	Rich Solomon		X	
Suncor Energy	Fire Chief	Christopher McMahill		X	
Colorado Department of Homeland Security and Emergency Management (DHSEM)	Mitigation Planning	Mark Thompson		X	Kickoff; Mtg#3; Mtg#4
DHSEM	Mitigation Planning	Christopher Hudak		X	Kickoff
DHSEM	Mitigation Planning	Julie Beyers		X	Kickoff
FEMA Region VIII	Community Planner	Logan Sand		X	Mtg#2
Wood Environment and Infrastructure Solutions, Inc. Planning Team					



Department/Agency	Title	Name	Participating Jurisdiction	Stakeholder	Meetings¹ Attended
Wood	Project Manager	Scott Field			
Wood	Hazard Mitigation Planner	Amy Carr			
Wood	Hazard Mitigation Planner	Abby Moore			





APPENDIX C: PLAN ADOPTION

Note: The records of adoption will be incorporated as an electronic appendix. When the plan is adopted in 2020, the jurisdictions and adoption date will be noted here, but scanned versions of all adoption resolutions will be kept on file with Adams County Emergency Management. A sample adoption resolution is provided here.

Hazard Mitigation Plan Adoption Sample Resolution

Resolution # _____

**Adopting the Adams County
Hazard Mitigation Plan 2020**

Whereas, (name of county or community) recognizes the threat that natural hazards pose to people and property within our community; and

Whereas, undertaking hazard mitigation actions will reduce the potential for harm to people and property from future hazard occurrences; and

Whereas, an adopted Multi-Jurisdictional Hazard Mitigation Plan is required as a condition of future funding for mitigation projects under multiple FEMA pre- and post-disaster mitigation grant programs; and

Whereas, (name of county or community) resides within the Planning Area, and fully participated in the mitigation planning process to prepare this Hazard Mitigation Plan; and

Whereas, the Colorado Department of Homeland Security and Emergency Management and Federal Emergency Management Agency, Region VIII officials have reviewed the Adams County Hazard Mitigation Plan and approved it contingent upon this official adoption of the participating governing body; and

Now, therefore, be it resolved, that the (name of board or council), hereby adopts the Adams County Hazard Mitigation Plan, as an official plan; and

Be it further resolved, Adams County Emergency Management will submit this Adoption Resolution to the Colorado Department of Homeland Security and Emergency Management and Federal Emergency Management Agency, Region VIII officials to enable the Plan's final approval.

Passed: (date)

Certifying Official



APPENDIX D: MITIGATION ACTION WORKSHEETS



Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Sheltering Equipment - upgrades - ^{Generators}
Hazard(s) Mitigated	Weather extremes, severe winter storm, storms tornado, high wind
Priority (High, Medium, Low)	
Project Description, Issue/Background	Outfit major shelters with designated as storm/or extreme weathering shelters with back-up generators.
Responsible Office/ Agency and partners	Adams City Union Partners (Housing Authority), Office of Emergency Mgmt (Adams City)
Timeline for Completion	1-2 yrs
Cost Estimate	unknown - dependent on # of shelters, etc
Benefits (Avoided Losses)	→ power losses, → need for increased power for power outages

Prepared by: Lisa Ciarra
 Jurisdiction: Power Water
 Title/Dept: EM Specialist
 Phone: 720-339-7457
 Email: lisa.ciarra@denverwater.org

Please return worksheets by email to:
 Amy Carr
 amy.carr@woodplc.com
 Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Dam Safety Alerting System
Hazard(s) Mitigated	Flooding Consequences
Priority (High, Medium, Low)	Med
Project Description, Issue/Background	Inventory of High Hazard Dams Status of " " " Rainfall thresholds to fill/spill Process to notify ^{warning} decision makers Coordination w/ internal/external agencies (Fed/State/Regional)
Responsible Office/ Agency and partners	TBD Partner: MHFD
Timeline for Completion	2023
Cost Estimate	Est \$50k
Benefits (Avoided Losses)	Flood proofing measures implemented lives Life safety, Community Awareness elevated

Prepared by: Kevin Stewart
 Jurisdiction: MHFD (support agency)
 Title/Dept: Engineering Services Mgr / Flood Warning & Info Services
 Phone: 303-455-6277
 Email: kstewart@mhfd.org

Please return worksheets by email to:
 Amy Carr
 amy.carr@woodplc.com
 Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Public/Emergency Shelter Generator For Eagle View Adult Center
Hazard(s) Mitigated	multiple severe winter weather Severe, Thunderstorms Tornado/High winds
Priority (High, Medium, Low)	High
Project Description, Issue/Background	main shelter location for the city does not have a generator nor is the building wired to accept a generator
Responsible Office/ Agency and partners	City of Brighton / OEM / Parks & Rec.
Timeline for Completion	5-10 yrs.
Cost Estimate	\$250,000 - \$300,000 (construction, wiring, generator)
Benefits (Avoided Losses)	Ability to safely shelter residents during power loss

Prepared by: Stephanie Hackett
 Jurisdiction: City of Brighton / Brighton
 Title/Dept: EM Coordinator Fire
 Phone: 720 288-1008
 Email: shackett@brightonco.gov

Please return worksheets by email to:
 Amy Carr
 amy.carr@woodplc.com
 Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	
Hazard(s) Mitigated	Extreme heat events.
Priority (High, Medium, Low)	
Project Description, Issue/Background	<p>Develop an extreme heat plan that incorporates:</p> <ul style="list-style-type: none"> → pre-identified cooling stations → increase awareness of public through outreach. → identify → identifies most vulnerable communities.
Responsible Office/ Agency and partners	Adams County
Timeline for Completion	
Cost Estimate	minimal
Benefits (Avoided Losses)	lives.

Prepared by: _____
 Jurisdiction: _____
 Title/Dept: _____
 Phone: _____
 Email: _____

Please return worksheets by email to:
Amy Carr
 amy.carr@woodplc.com
 Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Limit development around floodplain/ways
Hazard(s) Mitigated	flooding, weather event concerns storming w/ flooding
Priority (High, Medium, Low)	High
Project Description, Issue/Background	provide zoning and future land use guidance to map vulnerable areas and create a toolkit to assist owners/developers ^{and educate} on development concerns to particular areas or ways to mitigate existing concerns (zoning changes)
Responsible Office/ Agency and partners	Jurisdictions FEMA / Flood Control Districts
Timeline for Completion	Ongoing - ID by 2023-25 (zoning code update possible for ADCO)
Cost Estimate	
Benefits (Avoided Losses)	acquisition of vulnerable properties by county to prevent development

Prepared by: Libby Tart
 Jurisdiction: Adams
 Title/Dept: Sr. Long Range Planner/CEDD
 Phone: 7-523-6858
 Email: Hart@adco.gov.org

Please return worksheets by email to:
 Amy Carr
 amy.carr@woodplc.com
 Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Update Building and construction codes to the most recent versions updates.
Hazard(s) Mitigated	Earth quakes, strong winds, Extreme temps, Tornadoes, winter storms, etc
Priority (High, Medium, Low)	High
Project Description, Issue/Background	International Building codes and related construction codes are updated every three years. The county should adopt the latest versions of all of these plans shortly after (within six months) of the publication of the Plan updates.
Responsible Office/ Agency and partners	County building department
Timeline for Completion	2020 → ongoing
Cost Estimate	Stall time
Benefits (Avoided Losses)	

Prepared by: Martin Postma
 Jurisdiction: City of Thornton
 Title/Dept: Long Range Planning
 Phone: 303-538-7631
 Email: martin.postma@thorntonco.gov

Please return worksheets by email to:
 Amy Carr
 amy.carr@woodplc.com
 Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Public Awareness
Hazard(s) Mitigated	flood, tornado, natural hazards
Priority (High, Medium, Low)	Medium
Project Description, Issue/Background	Brochure to be made available to the public in hard copy, & placed on Town's website
Responsible Office/ Agency and partners	Town of Bennett
Timeline for Completion	December 2020
Cost Estimate	Not Sure
Benefits (Avoided Losses)	?

Prepared by: Gerilynn Scheidt
 Jurisdiction: Town of Bennett
 Title/Dept: Town Safety Officer
 Phone: 303-243-0833
 Email: gscheidt@bennett.co.us

Please return worksheets by email to:
 Amy Carr
 amy.carr@woodplc.com
 Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Dahlia Outfall System
Hazard(s) Mitigated	Flooding
Priority (High, Medium, Low)	Medium
Project Description, Issue/Background	Add trunkline for 1.5 miles Modify & enlarge detention basin Issues: cross irrigation ditch, through Construction Debris landfill, have asphalt placed and/or hand control, traffic control Business access
Responsible Office/ Agency and partners	Public Works / MHFD (UDRIT)
Timeline for Completion	Mid 2021
Cost Estimate	25 million
Benefits (Avoided Losses)	Local regulatory Flood damage losses Critical facilities protection Loss of life

Prepared by: David Rausch
 Jurisdiction: _____
 Title/Dept: Infrastructure & Stormwater
 Phone: 720 253 6540
 Email: drausch@adco.gov.org

Please return worksheets by email to:
 Amy Carr
 amy.carr@woodplc.com
 Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Reduce Impacts To Roadways
Hazard(s) Mitigated	Snow Drifts & Severe Winter Weather
Priority (High, Medium, Low)	Medium
Project Description, Issue/Background	<p>Snow Fences - update/upgrade</p> <ul style="list-style-type: none"> • Living - Vegetation • Snow Structures <p>Increase - Snowplow Equipment</p>
Responsible Office/ Agency and partners	TRANSPORTATION
Timeline for Completion	2022
Cost Estimate	Requires Study
Benefits (Avoided Losses)	Avoid Loss of Life & Maintain Passability

Prepared by: Greg Baca
 Jurisdiction: _____
 Title/Dept: _____
 Phone: _____
 Email: _____

Please return worksheets by email to:
 Amy Carr
 amy.carr@woodplc.com
 Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Regional Park Sheltering
Hazard(s) Mitigated	Thunderstorms, Tornadoes, Hail, Flooding
Priority (High, Medium, Low)	Medium
Project Description, Issue/Background	<p>There is no safe room at the Adams County Regional Park. The park is the largest event center in unincorporated Adams County as well the secondary location for the Alternate Care Facility. Rapid egress of citizens from the park is not possible due to roadway issues.</p> <p>Action: Review funding options as well as storm shelter alternatives (retrofitting or new construction) to provide safe rooms at the Adams County Regional Park. Provide adequate sheltering for severe storms and tornados.</p>
Responsible Office/ Agency and partners	Adams County Parks *included in Regional Park Master Plan
Timeline for Completion	TBD
Cost Estimate	TBD
Benefits (Avoided Losses)	

Prepared by: Ron Sigman
Jurisdiction: Adams County
Title/Dept: OEM
Phone: 720.523.6601
Email: rsigman@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	ADA Five Areas Project
Hazard(s) Mitigated	ADA access improvement. All-hazards
Priority (High, Medium, Low)	High
Project Description, Issue/Background	<p>Project will provide better access in compliance with Americans with Disabilities Act improvements (curb, gutter, and sidewalks) in the following areas:</p> <ul style="list-style-type: none"> • Area 1: 68th Ave – Washington St – York St • Area 2: E. 66th Ave – Washington St – York St • Area 3: Steele St – Niver Creek Tr – E. 86th Ave • Area 4: E 56th Ave – Lincoln St.- Washington St. • Area 5: E 55th Ave – Lincoln St. – Washington St.
Responsible Office/ Agency and partners	Adams County Public Works
Timeline for Completion	2021
Cost Estimate	Areas 1-4: \$5,360,000 Area 5: \$680,000
Benefits (Avoided Losses)	Provide better ADA access

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Public Works
Phone: 720.523.6875
Email: publicworks@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	ADA Five Areas Project
Hazard(s) Mitigated	ADA access improvement. All-hazards
Priority (High, Medium, Low)	High
Project Description, Issue/Background	<p>Project will provide better access in compliance with Americans with Disabilities Act improvements (curb, gutter, and sidewalks) in the following areas:</p> <ul style="list-style-type: none"> • Area 1: 68th Ave – Washington St – York St • Area 2: E. 66th Ave – Washington St – York St • Area 3: Steele St – Niver Creek Tr – E. 86th Ave • Area 4: E 56th Ave – Lincoln St.- Washington St. • Area 5: E 55th Ave – Lincoln St. – Washington St.
Responsible Office/ Agency and partners	Adams County Public Works
Timeline for Completion	2021
Cost Estimate	<p>Areas 1-4: \$5,360,000 Area 5: \$680,000</p>
Benefits (Avoided Losses)	Provide better ADA access

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Public Works
Phone: 720.523.6875
Email: publicworks@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	96 th Avenue Bridge Repair Project
Hazard(s) Mitigated	Flooding, Thunderstorms, Wildland fire
Priority (High, Medium, Low)	High
Project Description, Issue/Background	Starting in November 2019, crews will repair the 96th Avenue bridge over Bijou Creek located approximately 2.3 miles west of Rector-Leader Road in unincorporated Adams County. This project will rehabilitate the existing bridge to address critical structural problems. Phase 1 work will include repairs to the abutments, piers, girders, and approach roadways.
Responsible Office/ Agency and partners	Adams County Public Works
Timeline for Completion	2020 - 2021
Cost Estimate	\$662,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Public Works
Phone: 303.317.2112
Email: 96thAveBridge@gmail.com

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Dahlia Street Project
Hazard(s) Mitigated	Flood, Winter Storm, Thunderstorms
Priority (High, Medium, Low)	High
Project Description, Issue/Background	Dahlia Street from 74 th Ave to 78 th Ave. Install new curb, gutter, and sidewalk, turn lanes, and bike lanes. Add storm trunk line to Dahlia Pond.
Responsible Office/ Agency and partners	Adams County Public Works
Timeline for Completion	2021
Cost Estimate	\$9,000,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Public Works
Phone: 720.523.6875
Email: publicworks@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

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Mitigation Action/Project Title	E. 88th Ave and Welby Road Intersection Improvements
Hazard(s) Mitigated	Winter Storm, Flood, Thunderstorm
Priority (High, Medium, Low)	Low
Project Description, Issue/Background	This project will make improvements to E. 88 th and Welby Road, including traffic signals and ADA-compliant curb ramps. Project on a temporary shutdown.
Responsible Office/ Agency and partners	Adams County Public Works
Timeline for Completion	Project on temporary shutdown
Cost Estimate	\$613,978
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Public Works
Phone: 720.523.6961
Email: WelbyRd88thAveProject@gmail.com

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Pecos Street Project
Hazard(s) Mitigated	Winter Storm, Flood
Priority (High, Medium, Low)	Med
Project Description, Issue/Background	Pecos St. from W. 52 nd Ave to W. 58 th Ave. Install new curb, gutter and sidewalks, turn lanes, bike lanes
Responsible Office/ Agency and partners	Adams County Public Works
Timeline for Completion	2021
Cost Estimate	\$8,000,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Public Works
Phone: 720.523.6875
Email: publicworks@adcogov.org

Please return worksheets by email to:
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amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Steele Street Project
Hazard(s) Mitigated	Winter Storm, Hazmat
Priority (High, Medium, Low)	Med
Project Description, Issue/Background	Extension of Steele St north of 86 th Avenue to 88 th Avenue.
Responsible Office/ Agency and partners	Adams County Public Works
Timeline for Completion	2021
Cost Estimate	\$1,700,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Public Works
Phone: 720.523.6875
Email: publicworks@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	York Street Phase II (E. 78 th Ave – E. 88 th Ave)
Hazard(s) Mitigated	Flood, Winter Storm
Priority (High, Medium, Low)	Med
Project Description, Issue/Background	<p>York St. from E. 78th Ave to E. 88th Ave. This project includes roadway widening, including sidewalks, curbs, and gutter improvements. Project to include design of roadway improvements, structure replacement or modifications and construction of those improvements.</p> <p>The overall objective of this project is to improve roadway capacity, safety, mobility, pedestrian access facilities, multi-use trail, drainage system, structure replacement or modification, and median/landscaping amenity and street lighting.</p>
Responsible Office/ Agency and partners	Adams County Public Works
Timeline for Completion	2021
Cost Estimate	\$14,500,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Public Works
Phone: 720.523.6875
Email: publicworks@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	York Street Phase III (E. 58 th – SH 224)
Hazard(s) Mitigated	Flood, Winter Storm, Thunderstorm
Priority (High, Medium, Low)	High
Project Description, Issue/Background	The project is for roadway widening, including sidewalks, curbs, and gutters. Coordination with Union Pacific Railroad for railroad bridge replacement. Floodplain impacts.
Responsible Office/ Agency and partners	Adams County Public Works Union Pacific Railroad
Timeline for Completion	2021/2022
Cost Estimate	\$14,500,000 (total project)
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Public Works
Phone: 720.523.6875
Email: publicworks@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Clear Creek Drop Structure
Hazard(s) Mitigated	Flood, Thunderstorm,
Priority (High, Medium, Low)	Med
Project Description, Issue/Background	
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2021
Cost Estimate	\$3,000,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Dahlia St Project (Dahlia St from Hwy 224-I76.
Hazard(s) Mitigated	Flood, Thunderstorm,
Priority (High, Medium, Low)	Med
Project Description, Issue/Background	
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2021
Cost Estimate	\$8,000,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	2019 E 152 nd Ave and Imboden Drainage
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	Med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$500,000
Benefits (Avoided Losses)	

Prepared by: _____

Jurisdiction: Adams County

Title/Dept: Storm Water Utility

Phone: 720.523.6840

Email: DRausch@adcogov.org

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amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Dahlia Pond Improvements at southwest corner of I-76
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	Med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$3,000,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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Phone: 303-630-0796

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Mitigation Action/Project Title	2019 Logan Court Drainage Basin Storm design
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	Med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2021
Cost Estimate	\$100,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Broadway Intersection of 62 nd Ave (minor system)
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	low
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2022
Cost Estimate	\$500,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Broadway at 59 th Ave (major system)
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2023
Cost Estimate	\$8,000,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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Phone: 303-630-0796

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Mitigation Action/Project Title	Broadway at 59 th Ave (major system)
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2023
Cost Estimate	\$8,000,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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Phone: 303-630-0796

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Mitigation Action/Project Title	Little Dry Creek – Major Drainageway Planning and Flood Hazard Delineation Study
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$14,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Grange Hall Creek-Flood Hazard Delineation Study
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$8,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

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Mitigation Action/Project Title	Basin 4100 & DFA 0056 Outfall Systems Plan (OSP) Update
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$12,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Pecos & 54 th Ave Outfall Systems Plan (OSP) Update
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$75,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	South Platte river FHAD
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$18,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

Please return worksheets by email to:
Amy Carr
amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Clear Creek FHAD
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$20,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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Mitigation Action/Project Title	Third Creek Master Drainage Plan Outfall Systems Plan (OSP) Update
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$50,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

Please return worksheets by email to:
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amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Second Creek (downstream from DIA) Major Drainageway Planning and flood hazard delineation study
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$20,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

Please return worksheets by email to:
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amy.carr@woodplc.com
Phone: 303-630-0796

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Mitigation Action/Project Title	Brantner Gulch major drainageway planning and flood hazard delineation update
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2021
Cost Estimate	\$15,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

Please return worksheets by email to:
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amy.carr@woodplc.com
Phone: 303-630-0796

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Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	DFA 0054 major drainageway planning and flood hazard delineation update
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2021
Cost Estimate	\$30,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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Mitigation Action/Project Title	Lost Creek major drainageway planning
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2022
Cost Estimate	TBD
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

Please return worksheets by email to:
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Mitigation Action/Project Title	McKay Lake Watershed outfall systems plan (OSP)
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2023
Cost Estimate	\$8,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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Mitigation Action/Project Title	Video Inspection and Maintenance of Stormwater Infrastructure
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2020
Cost Estimate	\$800,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
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Email: DRausch@adcogov.org

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Mitigation Action/Project Title	Video Inspection and Maintenance of Stormwater Infrastructure
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2021
Cost Estimate	\$850,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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Mitigation Action/Project Title	Video Inspection and Maintenance of Stormwater Infrastructure
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2022
Cost Estimate	\$900,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
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 Phone: 303-630-0796

Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Video Inspection and Maintenance of Stormwater Infrastructure
Hazard(s) Mitigated	Flood, Thunderstorm, Winter Storm
Priority (High, Medium, Low)	med
Project Description, Issue/Background	Improve storm water drainage, flood control.
Responsible Office/ Agency and partners	Adams County Storm Water Utility
Timeline for Completion	2023
Cost Estimate	\$900,000
Benefits (Avoided Losses)	

Prepared by: _____
Jurisdiction: Adams County
Title/Dept: Storm Water Utility
Phone: 720.523.6840
Email: DRausch@adcogov.org

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amy.carr@woodplc.com
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Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. Complete and return to Amy Carr by **January 31, 2020**.

Mitigation Action/Project Title	Rec Center Tributary Outfall
Hazard(s) Mitigated	Flood
Priority (High, Medium, Low)	High
Project Description, Issue/Background	Design and construct an outfall to serve the properties surrounding the intersection of Bridge and Telluride Street.
Responsible Office/ Agency and partners	City of Brighton and Mile High Flood District.
Timeline for Completion	2025
Cost Estimate	\$4,500,000
Benefits (Avoided Losses)	Prevent localized flooding of public roadways.

Prepared by: Scott Olsen
Jurisdiction: City of Brighton
Title/Dept: Stormwater and Environmental Division
Phone: 303-655-2136
Email: solsen@brightonco.gov

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Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary.

Mitigation Action/Project Title	Emergency back-up generators.
Hazard(s) Mitigated	Severe winter weather, blizzards, high wind events, tornados, and floods.
Priority (High, Medium, Low)	High
Project Description, Issue/Background	<p>Description: Retrofit public government buildings with back-up emergency generators.</p> <p>Issues/Background: Commerce City has three critical buildings that don't have emergency back-up power supply. In the event of a power outage, these critical buildings will not be operational. The buildings are two recreation centers that have been designated as emergency shelters and the municipal service center which maintains the city's fleet vehicles and equipment. In the past, natural disasters such as blizzards created major power outages; therefore the city could not use their designated emergency shelter facilities and also hinder fleet support services. The lack of capability of maintaining operational readiness of emergency shelters and fleet support services during power outages as the potential of creating hardships in providing emergency sheltering and fleet support services.</p>
Responsible Office/ Agency and partners	Commerce City Public Works Division with partnership from Emergency Management Division.
Timeline for Completion	1-3 years.
Cost Estimate	\$125,000/generator x 3 = \$375,000.
Potential Funding	Mitigation grant funds with general budget funds.
Benefits (Avoided Losses)	Maintain operational readiness of critical infrastructure to perform mission essential functions such as emergency shelter operations and sustainment of Fleet services.

Prepared by: Kirk Dominic
 Jurisdiction: Commerce City
 Title/Dept: Emergency Manager/Police Department
 Phone: 303-319-5482
 Email: kdominic@c3gov.com

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Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary.

Mitigation Action/Project Title	Fuel storage/dispensing facility.
Hazard(s) Mitigated	Severe winter weather, blizzards, high wind events, tornados, and floods.
Priority (High, Medium, Low)	High
Project Description, Issue/Background	<p><u>Description:</u> Installation of a permanent fuel storage/dispensing facility at the city yard.</p> <p><u>Issues/Background:</u> Commerce City doesn't have internal fuel storage/dispensing capability to maintain the city's fleet vehicles and equipment. Currently the city uses public retail vendors such as gas stations to provide fuel for its vehicles and equipment. In the past, natural disasters such as blizzards, flooding and tornados have caused major power outages and/or shortages of the retail fuel supply. The lack of capability to dispense fuel or shortages of retail fuel supply has severely decrease the city's capability in maintaining operational readiness of the city's fleet and equipment. Two critical fleet sections are first responders vehicles and snow plow trucks which if these vehicles don't have fuel will create a public safety emergency.</p>
Responsible Office/ Agency and partners	Commerce City Public Works Division with partnership from Emergency Management Division.
Timeline for Completion	1-2 years.
Cost Estimate	\$125,000.
Potential Funding	Mitigation grant funds with general budget funds.
Benefits (Avoided Losses)	Maintain operational readiness and sustainment of city's fleet and equipment.

Prepared by: Kirk Dominic
 Jurisdiction: Commerce City
 Title/Dept: Emergency Manager/Police Department
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Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary.

Mitigation Action/Project Title	Emergency back-up generators.
Hazard(s) Mitigated	Severe winter weather, blizzards, high wind events, tornados, and floods.
Priority (High, Medium, Low)	High
Project Description, Issue/Background	<p>Description: Retrofit public government buildings with back-up emergency generators.</p> <p>Issues/Background: Commerce City has three critical buildings that don't have emergency back-up power supply. In the event of a power outage, these critical buildings will not be operational. The buildings are two recreation centers that have been designated as emergency shelters and the municipal service center which maintains the city's fleet vehicles and equipment. In the past, natural disasters such as blizzards created major power outages; therefore the city could not use their designated emergency shelter facilities and also hinder fleet support services. The lack of capability of maintaining operational readiness of emergency shelters and fleet support services during power outages as the potential of creating hardships in providing emergency sheltering and fleet support services.</p>
Responsible Office/ Agency and partners	Commerce City Public Works Division with partnership from Emergency Management Division.
Timeline for Completion	1-3 years.
Cost Estimate	\$166,666/generator x 3 = \$500,000.
Potential Funding	Mitigation grant funds with general budget funds.
Benefits (Avoided Losses)	Maintain operational readiness of critical infrastructure to perform mission essential functions such as emergency shelter operations and sustainment of Fleet services.

Prepared by: Kirk Dominic
 Jurisdiction: Commerce City
 Title/Dept: Emergency Manager/Police Department
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Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary.

Mitigation Action/Project Title	Fuel storage/dispensing facility.
Hazard(s) Mitigated	Severe winter weather, blizzards, high wind events, tornados, and floods.
Priority (High, Medium, Low)	High
Project Description, Issue/Background	<p><u>Description:</u> Installation of a permanent fuel storage/dispensing facility at the city yard.</p> <p><u>Issues/Background:</u> Commerce City doesn't have internal fuel storage/dispensing capability to maintain the city's fleet vehicles and equipment. Currently the city uses public retail vendors such as gas stations to provide fuel for its vehicles and equipment. In the past, natural disasters such as blizzards, flooding and tornados have caused major power outages and/or shortages of the retail fuel supply. The lack of capability to dispense fuel or shortages of retail fuel supply has severely decrease the city's capability in maintaining operational readiness of the city's fleet and equipment. Two critical fleet sections are first responders vehicles and snow plow trucks which if these vehicles don't have fuel will create a public safety emergency.</p>
Responsible Office/ Agency and partners	Commerce City Public Works Division with partnership from Emergency Management Division.
Timeline for Completion	1-2 years.
Cost Estimate	\$225,000.
Potential Funding	Mitigation grant funds with general budget funds.
Benefits (Avoided Losses)	Maintain operational readiness and sustainment of city's fleet and equipment.

Prepared by: Kirk Dominic
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 Title/Dept: Emergency Manager/Police Department
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Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary.

Mitigation Action/Project Title	Fairfax Park Drainage Reconstruction
Hazard(s) Mitigated	Flooding
Priority (High, Medium, Low)	High
Project Description, Issue/Background	<p>Description: The first phase of this project is a study through Mile High Flood District to study the drainage for the Core part of the City and to determine what infrastructure improvements are needed to better drain the Fairfax Park/Regional Detention Pond. The next phase of the project will be to replace the outfall pipe from Fairfax Park to the South Platter River. We anticipate that this project will be done over a three-year period.</p> <p>Issues/Background: The majority of the storm water from the historic portion of Commerce City drains to Fairfax Park. Fairfax Park functions as a regional drainage facility and as a regional park for the City. The outfall system from Fairfax Park to the South Platte is undersized, the pond frequently overtops, and the flooding negatively affects the surrounding neighborhood. In addition, during large storm events it takes several days for Fairfax to drain. This affects the use of the site as a regional park.</p>
Responsible Office/ Agency and partners	Commerce City Public Works Division with partnership from Emergency Management Division.
Timeline for Completion	1-4 years.
Cost Estimate	Drainage Study - \$750,000 (2021) Outfall Improvements Phase 1: \$1,200,000 (2022) Outfall Improvements Phase 2: \$1,200,000 (2023) Outfall Improvements Phase 2: \$1,200,000 (2024) Total = \$4,350,000
Potential Funding	Mitigation grant funds, Mile High Flood District funds with general budget funds.
Benefits (Avoided Losses)	Maintain operational readiness of critical infrastructure to perform mission essential functions such as maintaining emergency routes during major flood events and sustainment of storm sewer infrastructure.

Prepared by: Kirk Dominic
 Jurisdiction: Commerce City
 Title/Dept: Emergency Manager/Police Department
 Phone: 303-319-5482
 Email: kdominic@c3gov.com

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Adams County Hazard Mitigation Plan 2020 Update New Mitigation Action Worksheet

Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary.

Mitigation Action/Project Title	Stoplight and intersection infrastructure at Marketplace Drive and Hwy 79
Hazard(s) Mitigated	Hazardous Materials
Priority (High, Medium, Low)	Medium
Project Description, Issue/Background	This is a high traffic intersection right off I-70 with multiple businesses including King Soopers, Love's Travel w/truck stop, McDonalds, and a Tractor Supply. Redesign and installation of a stoplight area will assist with traffic safety for commercial vehicles as well as residential vehicles.
Responsible Office/ Agency and partners	Town of Bennett - Public Works
Timeline for Completion	2022
Cost Estimate	\$1.2M
Potential Funding	CIP Budget
Benefits (Avoided Losses)	

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Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary.

Mitigation Action/Project Title	Replacement of culverts of on Kiowa-Bennett Road and Hwy 36
Hazard(s) Mitigated	Flood, Winter Weather
Priority (High, Medium, Low)	High
Project Description, Issue/Background	When Bennett experiences heavy rains and/or snowfall in this area, the Kiowa-Bennett road has experienced flooding and erosion issues. Replacement of culverts is expected to reduce and/or eliminate the flooding and erosion.
Responsible Office/ Agency and partners	Town of Bennett - Public Works
Timeline for Completion	2021
Cost Estimate	\$500,000
Potential Funding	CIP Budget
Benefits (Avoided Losses)	

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Use this sheet to record new potential mitigation projects (1 form per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary.

Mitigation Action/Project Title	Design of expansion for wastewater treatment facility
Hazard(s) Mitigated	Flood
Priority (High, Medium, Low)	High
Project Description, Issue/Background	With the growth that the Town of Bennett is experiencing, it is necessary to begin the process for design of expansion of this facility to accommodate the growth. The site also experienced stormwater flooding in 2019.
Responsible Office/ Agency and partners	Town of Bennett - Public Works
Timeline for Completion	2021
Cost Estimate	\$350,000
Potential Funding	CIP Budget
Benefits (Avoided Losses)	

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ACRONYMS

%g	Percentage of gravity
BRIC	Building Resilient Infrastructure and Communities grant program
CFR	Code of Federal Regulations
CO-WRAP	Colorado Wildfire Risk Assessment Program
CRS	Community Rating System
CWCB	Colorado Water Conservation Board
CWPP	Community Wildfire Protection Plan
DEM	Digital Elevation Model
DFIRM	Digital Flood Insurance Rate Maps
DHS	Department of Homeland Security
DMA	Disaster Mitigation Act
EAP	Emergency Action Plan
EF	Enhanced Fujita
EOP	Emergency Operations Plan
EPA	U.S. Environmental Protection Agency
EPR	Health Department Emergency Preparedness and Response
ESA	Endangered Species Act
ESF	Emergency Support Functions
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FIRM	Flood Insurance Rate Map
FMA	Flood Management Assistance grant program
FIS	Flood Insurance Study
GIS	Geographic Information System
Hazmat	Hazardous Materials
Hazus-MH	Hazards, United States-Multi Hazard
HMA	Hazard Mitigation Assistance grant program
HMGP	Hazard Mitigation Grant Program
MM	Modified Mercalli Scale
Mph	Miles per Hour



M _w	Moment Magnitude
NASA	National Aeronautics and Space Administration
NEHRP	National Earthquake Hazards Reduction Program
NFIP	National Flood Insurance Program
NOAA	National Oceanic and Atmospheric Administration
NWS	National Weather Service
PDM	Pre-Disaster Mitigation
PDI	Palmer Drought Index
PGA	Peak Ground Acceleration
PHDI	Palmer Hydrological Drought Index
SFHA	Special Flood Hazard Area
SPI	Standardized Precipitation Index
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFS	U.S. Forest Service
USGS	U.S. Geological Survey
WUI	Wildland Urban Interface

DEFINITIONS

100-Year Flood: The term “100-year flood” can be misleading. The 100-year flood does not necessarily occur once every 100 years. Rather, it is the flood that has a 1% chance of being equaled or exceeded in any given year. Thus, the 100-year flood could occur more than once in a relatively short period of time. The Federal Emergency Management Agency (FEMA) defines it as the 1% annual chance flood, which is now the standard definition used by most federal and state agencies and by the National Flood Insurance Program (NFIP).

Acre-Foot: An acre-foot is the amount of water it takes to cover 1 acre to a depth of 1 foot. This measure is used to describe the quantity of storage in a water reservoir. An acre-foot is a unit of volume. One acre foot equals 7,758 barrels; 325,829 gallons; or 43,560 cubic feet. An average household of four will use approximately 1 acre-foot of water per year.

Asset: An asset is any man-made or natural feature that has value, including, but not limited to, people; buildings; infrastructure, such as bridges, roads, sewers, and water systems; lifelines, such as electricity and communication resources; and environmental, cultural, or recreational features such as parks, wetlands, and landmarks.

Base Flood: The flood having a 1% chance of being equaled or exceeded in any given year, also known as the “100-year” or “1% chance” flood. The base flood is a statistical concept used to ensure that all properties subject to the NFIP are protected to the same degree against flooding.



Basin: A basin is the area within which all surface water—whether from rainfall, snowmelt, springs, or other sources—flows to a single water body or watercourse. The boundary of a river basin is defined by natural topography, such as hills, mountains, and ridges. Basins are also referred to as “watersheds” and “drainage basins.”

Benefit: A benefit is a net project outcome and is usually defined in monetary terms. Benefits may include direct and indirect effects. For the purposes of benefit/cost analysis of proposed mitigation measures, benefits are limited to specific, measurable risk reduction factors, including reduction in expected property losses (buildings, contents, and functions) and protection of human life.

Benefit/Cost Analysis: A benefit/cost analysis is a systematic, quantitative method of comparing projected benefits to projected costs of a project or policy. It is used as a measure of cost effectiveness.

Building: A building is defined as a structure that is walled and roofed, principally aboveground, and permanently fixed to a site. The term includes manufactured homes on permanent foundations on which the wheels and axles carry no weight.

Capability Assessment: A capability assessment provides a description and analysis of a community’s current capacity to address threats associated with hazards. The assessment includes two components: an inventory of an agency’s mission, programs, and policies, and an analysis of its capacity to carry them out. A capability assessment is an integral part of the planning process in which a community’s actions to reduce losses are identified, reviewed, and analyzed, and the framework for implementation is identified. The following capabilities were reviewed under this assessment:

- Legal and regulatory capability
- Administrative and technical capability
- Fiscal capability

Community Rating System (CRS): The CRS is a voluntary program under the NFIP that rewards participating communities (provides incentives) for exceeding the minimum requirements of the NFIP and completing activities that reduce flood hazard risk by providing flood insurance premium discounts.

Critical Area: An area defined by state or local regulations as deserving special protection because of unique natural features or its value as habitat for a wide range of species of flora and fauna. A sensitive/critical area is usually subject to more restrictive development regulations.

Critical Facility: Facilities and infrastructure that are critical to the health and welfare of the population. These become especially important after any hazard event occurs. For the purposes of this plan, critical facilities include:

- Structures or facilities that produce, use, or store highly volatile, flammable, explosive, toxic or water reactive materials.
- Hospitals, nursing homes, and housing likely to contain occupants who may not be sufficiently mobile to avoid death or injury during a hazard event.
- Police stations, fire stations, vehicle and equipment storage facilities, and emergency operations centers that are needed for disaster response before, during, and after hazard events.
- Public and private utilities, facilities and infrastructure that are vital to maintaining or restoring normal services to areas damaged by hazard events.
- Government facilities.

Dam: Any artificial barrier or controlling mechanism that can or does impound 10 acre-feet or more of water.

Dam Failure: Dam failure refers to a partial or complete breach in a dam (or levee) that impacts its integrity. Dam failures occur for a number of reasons, such as flash flooding, inadequate spillway size, mechanical failure of valves or other equipment, freezing and thawing cycles, earthquakes, and intentional destruction.

Disaster Mitigation Act of 2000 (DMA): The DMA is Public Law 106-390 and is the latest federal legislation enacted to encourage and promote proactive, pre-disaster planning as a condition of receiving financial assistance under the Robert T. Stafford Act. The DMA emphasizes planning for disasters before they occur. Under the DMA, a pre-disaster hazard mitigation program and new requirements for the national post-disaster Hazard Mitigation Grant Program (HMGP) were established.

Drainage Basin: A basin is the area within which all surface water—whether from rainfall, snowmelt, springs or other sources—flows to a single water body or watercourse. The boundary of a river basin is defined by natural topography, such as hills, mountains and ridges. Drainage basins are also referred to as **watersheds** or **basins**.

Drought: Drought is a period of time without substantial rainfall or snowfall from one year to the next. Drought can also be defined as the cumulative impacts of several dry years or a deficiency of precipitation over an extended period of time, which in turn results in water shortages for some activity, group, or environmental function. A hydrological drought is caused by deficiencies in surface and subsurface water supplies. A socioeconomic drought impacts the health, well-being, and quality of life or starts to have an adverse impact on a region. Drought is a normal, recurrent feature of climate and occurs almost everywhere.

Earthquake: An earthquake is defined as a sudden slip on a fault, volcanic or magmatic activity, and sudden stress changes in the earth that result in ground shaking and radiated seismic energy. Earthquakes can last from a few seconds to over 5 minutes, and have been known to occur as a series of tremors over a period of several days. The actual movement of the ground in an earthquake is seldom the direct cause of injury or death. Casualties may result from falling objects and debris as shocks shake, damage, or demolish buildings and other structures.

Exposure: Exposure is defined as the number and dollar value of assets considered to be at risk during the occurrence of a specific hazard.

Extent: The extent is the size of an area affected by a hazard.

Fire Behavior: Fire behavior refers to the physical characteristics of a fire and is a function of the interaction between the fuel characteristics (such as type of vegetation and structures that could burn), topography, and weather. Variables that affect fire behavior include the rate of spread, intensity, fuel consumption, and fire type (such as underbrush versus crown fire).

Fire Frequency: Fire frequency is the broad measure of the rate of fire occurrence in a particular area. An estimate of the areas most likely to burn is based on past fire history or fire rotation in the area, fuel conditions, weather, ignition sources (such as human or lightning), fire suppression response, and other factors.

Flash Flood: A flash flood occurs with little or no warning when water levels rise at an extremely fast rate

Flood Insurance Rate Map (FIRM): FIRMs are the official maps on which the Federal Emergency Management Agency (FEMA) has delineated the Special Flood Hazard Area (SFHA).



Flood Insurance Study: A report published by the Federal Insurance and Mitigation Administration for a community in conjunction with the community's FIRM. The study contains such background data as the base flood discharges and water surface elevations that were used to prepare the FIRM. In most cases, a community FIRM with detailed mapping will have a corresponding flood insurance study.

Floodplain: Any land area susceptible to being inundated by flood waters from any source. A FIRM identifies most, but not necessarily all, of a community's floodplain as the SFHA.

Floodway: Floodways are areas within a floodplain that are reserved for the purpose of conveying flood discharge without increasing the base flood elevation more than 1 foot. Generally speaking, no development is allowed in floodways, as any structures located there would block the flow of floodwaters.

Floodway Fringe: Floodway fringe areas are located in the floodplain but outside of the floodway. Some development is generally allowed in these areas, with a variety of restrictions. On maps that have identified and delineated a floodway, this would be the area beyond the floodway boundary that can be subject to different regulations.

Freeboard: Freeboard is the margin of safety added to the base flood elevation.

Frequency: For the purposes of this plan, frequency refers to how often a hazard of specific magnitude, duration, or extent is expected to occur on average. Statistically, a hazard with a 100-year frequency is expected to occur about once every 100 years on average and has a 1% chance of occurring any given year. Frequency reliability varies depending on the type of hazard considered.

Fujita Scale of Tornado Intensity: Tornado wind speeds are sometimes estimated on the basis of wind speed and damage sustained using the Fujita Scale. The scale rates the intensity or severity of tornado events using numeric values from F0 to F5 based on tornado wind speed and damage. An F0 tornado (wind speed less than 73 miles per hour [mph]) indicates minimal damage (such as broken tree limbs), and an F5 tornado (wind speeds of 261 to 318 mph) indicates severe damage.

Goal: A goal is a general guideline that explains what is to be achieved. Goals are usually broad-based, long-term, policy-type statements and represent global visions. Goals help define the benefits that a plan is trying to achieve. The success of a hazard mitigation plan is measured by the degree to which its goals have been met (that is, by the actual benefits in terms of actual hazard mitigation).

Geographic Information System (GIS): GIS is a computer software application that relates data regarding physical and other features on the earth to a database for mapping and analysis.

Hazard: A hazard is a source of potential danger or adverse condition that could harm people or cause property damage.

Hazardous Material: A substance or combination of substances which, because of quantity, concentration, or physical, chemical, or infectious characteristics, may either cause or significantly contribute to, an increase in mortality or an increase in serious, irreversible, or incapacitating reversible, illness.

Hazard Mitigation Grant Program (HMGP): Authorized under Section 202 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, the HMGP is administered by FEMA and provides grants to states, tribes, and local governments to implement hazard mitigation actions after a major disaster declaration. The purpose of the program is to reduce the loss of life and property due to disasters and to enable mitigation activities to be implemented as a community recovers from a disaster



Hazards U.S. Multi-Hazard (Hazus-MH) Loss Estimation Program: Hazus-MH is a GIS-based program used to support the development of risk assessments as required under the DMA. The Hazus-MH software program assesses risk in a quantitative manner to estimate damages and losses associated with natural hazards. Hazus-MH is FEMA's nationally applicable, standardized methodology and software program and contains modules for estimating potential losses from earthquakes, floods, and wind hazards. Hazus-MH has also been used to assess vulnerability (exposure) for other hazards.

Hydraulics: Hydraulics is the branch of science or engineering that addresses fluids (especially water) in motion in rivers or canals, works and machinery for conducting or raising water, the use of water as a prime mover, and other fluid-related areas.

Hydrology: Hydrology is the analysis of waters of the earth. For example, a flood discharge estimate is developed by conducting a hydrologic study.

Intensity: For the purposes of this plan, intensity refers to the measure of the effects of a hazard.

Inventory: The assets identified in a study region comprise an inventory. Inventories include assets that could be lost when a disaster occurs and community resources are at risk. Assets include people, buildings, transportation, and other valued community resources.

Lightning: Lightning is an electrical discharge resulting from the buildup of positive and negative charges within a thunderstorm. When the buildup becomes strong enough, lightning appears as a "bolt," usually within or between clouds and the ground. A bolt of lightning instantaneously reaches temperatures approaching 50,000°F. The rapid heating and cooling of air near lightning causes thunder. Lightning is a major threat during thunderstorms. In the United States, 75 to 100 Americans are struck and killed by lightning each year (see <http://www.fema.gov/hazard/thunderstorms/thunder.shtm>).

Liquefaction: Liquefaction is the complete failure of soils, occurring when soils lose shear strength and flow horizontally. It is most likely to occur in fine grain sands and silts, which behave like viscous fluids when liquefaction occurs. This situation is extremely hazardous to development on the soils that liquefy, and generally results in extreme property damage and threats to life and safety.

Local Government: Any county, municipality, city, town, township, public authority, school district, special district, intrastate district, council of governments (regardless of whether the council of governments is incorporated as a nonprofit corporation under State law), regional or interstate government entity, or agency or instrumentality of a local government; any Indian tribe or authorized tribal organization, or Alaska Native village or organization; and any rural community, unincorporated town or village, or other public entity.

Magnitude: Magnitude is the measure of the strength of an earthquake, and is typically measured by the Richter scale. As an estimate of energy, each whole number step in the magnitude scale corresponds to the release of about 31 times more energy than the amount associated with the preceding whole number value.

Mass movement: A collective term for landslides, mudflows, debris flows, sinkholes, and lahars.

Mitigation: A preventive action that can be taken in advance of an event that will reduce or eliminate the risk to life or property.

Mitigation Actions: Mitigation initiatives are specific actions to achieve goals and objectives that minimize the effects from a disaster and reduce the loss of life and property.

Objective: For the purposes of this plan, an objective is defined as a short-term aim that, when combined with other objectives, forms a strategy or course of action to meet a goal.

Peak Ground Acceleration: Peak Ground Acceleration (PGA) is a measure of the highest amplitude of ground shaking that accompanies an earthquake, based on a percentage of the force of gravity.

Preparedness: Preparedness refers to actions that strengthen the capability of government, citizens, and communities to respond to disasters.

Presidential Disaster Declaration: These declarations are typically made for events that cause more damage than state and local governments and resources can handle without federal government assistance. Generally, no specific dollar loss threshold has been established for such declarations. A Presidential Disaster Declaration puts into motion long-term federal recovery programs, some of which are matched by state programs, designed to help disaster victims, businesses, and public entities.

Probability of Occurrence: The probability of occurrence is a statistical measure or estimate of the likelihood that a hazard will occur. This probability is generally based on past hazard events in the area and a forecast of events that could occur in the future. A probability factor based on yearly values of occurrence is used to estimate probability of occurrence.

Repetitive Loss Property: Any NFIP-insured property that, since 1978 and regardless of any changes of ownership during that period, has experienced:

- Four or more paid flood losses in excess of \$1000.00; or
- Two paid flood losses in excess of \$1000.00 within any 10-year period since 1978 or
- Three or more paid losses that equal or exceed the current value of the insured property.

Return Period (or Mean Return Period): This term refers to the average period of time in years between occurrences of a particular hazard (equal to the inverse of the annual frequency of occurrence).

Riverine: Of or produced by a river. Riverine floodplains have readily identifiable channels. Floodway maps can only be prepared for riverine floodplains.

Risk: Risk is the estimated impact that a hazard would have on people, services, facilities, and structures in a community. Risk measures the likelihood of a hazard occurring and resulting in an adverse condition that causes injury or damage. Risk is often expressed in relative terms such as a high, moderate, or low likelihood of sustaining damage above a particular threshold due to occurrence of a specific type of hazard. Risk also can be expressed in terms of potential monetary losses associated with the intensity of the hazard.

Risk Assessment: Risk assessment is the process of measuring potential loss of life, personal injury, economic injury, and property damage resulting from hazards. This process assesses the vulnerability of people, buildings, and infrastructure to hazards and focuses on (1) hazard identification; (2) impacts of hazards on physical, social, and economic assets; (3) vulnerability identification; and (4) estimates of the cost of damage or costs that could be avoided through mitigation.

Risk Ranking: This ranking serves two purposes, first to describe the probability that a hazard will occur, and second to describe the impact a hazard will have on people, property, and the economy. Risk estimates for the City are based on the methodology that the City used to prepare the risk assessment for this plan. The following equation shows the risk ranking calculation:

$$\text{Risk Ranking} = \text{Probability} + \text{Impact (people + property + economy)}$$



Robert T. Stafford Act: The Robert T. Stafford Disaster Relief and Emergency Assistance Act, Public Law 100-107, was signed into law on November 23, 1988. This law amended the Disaster Relief Act of 1974, Public Law 93-288. The Stafford Act is the statutory authority for most federal disaster response activities, especially as they pertain to FEMA and its programs.

Special Flood Hazard Area: The base floodplain delineated on a FIRM. The SFHA is mapped as a Zone A in riverine situations. The SFHA may or may not encompass all of a community's flood problems

Stakeholder: Business leaders, civic groups, academia, non-profit organizations, major employers, managers of critical facilities, farmers, developers, special purpose districts, and others whose actions could impact hazard mitigation.

Thunderstorm: A thunderstorm is a storm with lightning and thunder produced by cumulonimbus clouds. Thunderstorms usually produce gusty winds, heavy rains, and sometimes hail. Thunderstorms are usually short in duration (seldom more than 2 hours). Heavy rains associated with thunderstorms can lead to flash flooding during the wet or dry seasons.

Tornado: A tornado is a violently rotating column of air extending between and in contact with a cloud and the surface of the earth. Tornadoes are often (but not always) visible as funnel clouds. On a local scale, tornadoes are the most intense of all atmospheric circulations, and winds can reach destructive speeds of more than 300 mph. A tornado's vortex is typically a few hundred meters in diameter, and damage paths can be up to 1 mile wide and 50 miles long.

Vulnerability: Vulnerability describes how exposed or susceptible an asset is to damage. Vulnerability depends on an asset's construction, contents, and the economic value of its functions. Like indirect damages, the vulnerability of one element of the community is often related to the vulnerability of another. For example, many businesses depend on uninterrupted electrical power. Flooding of an electric substation would affect not only the substation itself but businesses as well. Often, indirect effects can be much more widespread and damaging than direct effects.

Watershed: A watershed is an area that drains downgradient from areas of higher land to areas of lower land to the lowest point, a common drainage basin.

Wildfire: Wildfire refers to any uncontrolled fire occurring on undeveloped land that requires fire suppression. The potential for wildfire is influenced by three factors: the presence of fuel, topography, and air mass. Fuel can include living and dead vegetation on the ground, along the surface as brush and small trees, and in the air such as tree canopies. Topography includes both slope and elevation. Air mass includes temperature, relative humidity, wind speed and direction, cloud cover, precipitation amount, duration, and the stability of the atmosphere at the time of the fire. Wildfires can be ignited by lightning and, most frequently, by human activity including smoking, campfires, equipment use, and arson.

Windstorm: Windstorms are generally short-duration events involving straight-line winds or gusts exceeding 50 mph. These gusts can produce winds of sufficient strength to cause property damage. Windstorms are especially dangerous in areas with significant tree stands, exposed property, poorly constructed buildings, mobile homes (manufactured housing units), major infrastructure, and aboveground utility lines. A windstorm can topple trees and power lines; cause damage to residential, commercial, critical facilities; and leave tons of debris in its wake.

Zoning Ordinance: The zoning ordinance designates allowable land use and intensities for a local jurisdiction. Zoning ordinances consist of two components: a zoning text and a zoning map.



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Resolution Regarding Defense and Indemnification of Curtis Garth and Brandon Neel as Defendants Pursuant to C.R.S. § 24-10-101, et seq., 20-cv-3031-STV
FROM: Heidi Miller, County Attorney, County Attorney and Kerri Booth, Assistant County Attorney
AGENCY/DEPARTMENT: County Attorney's Office
HEARD AT STUDY SESSION ON N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners Adopt the Resolution Regarding Defense and Indemnification of Curtis Garth and Brandon Neel as Defendants Pursuant to C.R.S. § 24-10-101, et seq.

BACKGROUND:

The Board of County Commissioners formally indemnifies employees and elected officials who are named in civil lawsuits. This lawsuit is brought by Anthony Perez who claims his Constitutional Rights were violated by Deputy Curtis Garth and Deputy Brandon Neel, who allegedly used unlawful and excessive force on Mr. Perez while arresting him during a traffic stop. Mr. Perez also claims to have suffered physical injuries as a result of the alleged force.

The County Attorney's Office has reviewed the facts of this lawsuit and it has been determined that Curtis Garth and Brandon Neel were acting within the course and scope of their employment at all relevant times relevant to this lawsuit. Therefore, the County Attorney's Office is recommending that Curtis Garth and Brandon Neel be indemnified for any potential damages that might arise out of this litigation.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

ATTACHED DOCUMENTS:

RESOLUTION REGARDING DEFENSE AND INDEMNIFICATION OF CURTIS GARTH AND BRANDON NEEL AS DEFENDANTS PURSUANT TO C.R.S. § 24-10-101, ET SEQ.

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<hr/>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<hr/>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

Potential fiscal impact is unknown. If litigation results in settlement or judgment against the County or its employees/elected officials, there would be a fiscal impact. The potential amount of that impact is impossible to estimate at this time.

RESOLUTION REGARDING DEFENSE AND INDEMNIFICATION OF
CURTIS GARTH AND BRANDON NEEL AS DEFENDANTS PURSUANT TO C.R.S. § 24-
10-101, ET SEQ.

WHEREAS, Adams County is a public entity pursuant to the Colorado Governmental Immunity Act; and,

WHEREAS, Adams County is obligated to bear the cost of the defense of its elected officials and employees and pay all judgments entered against its elected officials and employees pursuant to the Colorado Governmental Immunity Act so long as they acted within the course and scope of their employment and their acts were not willful and wanton; and,

WHEREAS, Curtis Garth and Brandon Neel have been sued in the matter of the *Anthony Perez v. Adams County Sheriff's Department, et al.* in the U.S. District Court, Case Number 20-cv-03031-STV; said Defendants, being employees of Adams County at the time of the incident described in the Complaint; and,

WHEREAS, initial investigation has revealed to the satisfaction of the Board of County Commissioners and the determination has been made that the Defendants appear to have acted within the course and scope of their employment and their actions do not appear to be willful and wanton; and,

WHEREAS, pursuant to C.R.S. §§ 24-10-110, 24-10-113 and 24-10-118(5) Adams County hereby determines that it is in the public interest to bear the cost of defense for the Defendants against all asserted claims for compensatory and punitive damages which may be pled and to pay or settle any such compensatory and punitive damage claims against said Defendants; and,

WHEREAS, in exchange for such defense, the Defendants are required to cooperate fully in the defense of this matter, including but not limited to, assisting in the discovery process, participating in mediation, facilitation, or other measures deemed appropriate by the Board of County Commissioners, and Defendants acknowledge that Adams County may settle on behalf of the Defendants any or all asserted claims, including those for personal liability and punitive damages.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners of the County of Adams, State of Colorado, that Adams County shall bear the cost of defense for Curtis Garth and Brandon Neel against all asserted claims for compensatory and punitive damages which may be pled and to pay or settle any such compensatory and punitive damage claims against said Defendants in the matter of *Anthony Perez v. Adams County Sheriff's Department, et al.*

IT IS FURTHER RESOLVED that the Adams County Attorney is directed to enter her appearance as counsel for Defendants and to defend this matter.



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Development Agreement with P8 D-C Industrial Last Mile, LLC, a Delaware limited liability company
FROM: Jill Jennings Golich, Director
AGENCY/DEPARTMENT: Community and Economic Development
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves the Development Agreement with P8 D-C Industrial Last Mile, LLC, a Delaware limited liability company, for the public roadway improvements adjacent to the site, and a drainage facility to support the development of a commercial/industrial warehouse at LOT 1, BLOCK 1, CLEAR CREEK CONCEPTS AMENDED PLAT, COUNTY OF ADAMS, STATE OF COLORADO.

BACKGROUND:

The applicant, P8 D-C Industrial Last Mile, LLC, a Delaware limited liability company, is requesting to enter into a Development Agreement with the County for the construction of public roadway improvements along Huron Street and 64th Ave, and onsite improvements to support the construction of a commercial/industrial warehouse building, parking area, and drainage facility. The subject Development Agreement is required to ensure that public improvements associated with the development are designed and constructed in conformance with County Development Standards and Regulations. Exhibit “B” of the Development Agreement describes all of the required public improvements to support this development.

The subject request is consistent with the requirement for approval of the Development Agreement. In addition, staff reviewed the Development Agreement and determined that the proposed improvements conform to the requirements outlined in Section 4-20-06-04 of the County’s Development Standard and Regulations. These Standards require a property owner of land abutting a constructed public right-of-way is responsible for the construction and maintenance of curb, gutter, and sidewalk along the right-of-way that is adjacent to the property under development. Maintenance of public right-of-way includes snow removal for pedestrian access.

The of Community and Economic Development also reviewed construction documents associated with the development. Final acceptance of the project is contingent upon approval of the Development Agreement.

As a requirement of the Development Agreement, the Developer will furnish to the County a cash payment, which may later be replaced with a performance bond, releasable only by the County, to guarantee compliance with this Agreement. Said collateral will be in the amount of \$1,139,584.32.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Public Works Department
County Attorney's Office

ATTACHED DOCUMENTS:

Development Agreement with P8 D-C Industrial Last Mile, LLC, a Delaware limited liability company
Resolution

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<hr/> <hr/>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<hr/> <hr/>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

RESOLUTION APPROVING DEVELOPMENT AGREEMENT BETWEEN
ADAMS COUNTY AND P8 D-C INDUSTRIAL LAST MILE, LLC

Resolution 2020-XXX

WHEREAS, it is provided by resolution of the Board of County Commissioners, County of Adams, that the Developer shall enter into a written agreement with the County prior to the installation of public and/or private improvements; and,

WHEREAS, P8 D-C Industrial Last Mile, LLC, a Delaware limited liability company (“Developer”), is owner of certain real property located at LOT 1, BLOCK 1, CLEAR CREEK CONCEPTS AMENDED PLAT, COUNTY OF ADAMS, STATE OF COLORADO, Parcel Number 0182504401020; and,

WHEREAS, the County and the Developer desire to enter into a Development Agreement for Case Number SIA2020-00019 for public improvements as more specifically described in the Development Agreement; and,

WHEREAS, the Adams County Community and Economic Development Department recommends approval of the attached Development Agreement with P8 D-C Industrial Last Mile, LLC, for Case Number SIA2020-00019.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the Development Agreement between Adams County and P8 D-C Industrial Last Mile, LLC, a copy of which is attached hereto and incorporated herein by this reference, be approved.

BE IT FURTHER RESOLVED that the Chair of the Board of County Commissioners be authorized to execute said Agreement on behalf of the County of Adams, State of Colorado.

DEVELOPMENT AGREEMENT

THIS AGREEMENT is made and entered into by and between the County of Adams, State of Colorado, hereinafter called "County," and P8 D-C Industrial Last Mile, LLC, a Delaware limited liability company, with an address c/o Karis Capital, 9128 Strada Place, Suite 10115, Naples, Florida 34108, Attention: Jacob Finley, hereinafter called "Developer."

WITNESSETH:

WHEREAS, Developer is the owner of real property in the County of Adams, State of Colorado, as described in Exhibit "A" attached hereto, and by this reference made a part hereof ("Property").

WHEREAS, it is provided by resolution of the Board of County Commissioners, County of Adams, that where designated the Developer shall have entered into a written agreement with the County to install public and/or private improvements, and to deed land for public purposes or right-of-way.

NOW, THEREFORE, in consideration of the foregoing, the parties hereto promise, covenant, and agree as follows:

1. **Engineering Services.** Developer shall furnish, at its own expense, all engineering and other services in connection with the design and construction of the improvements described and detailed on Exhibit "B" attached hereto, and by this reference made a part hereof.
2. **Drawings and Estimates.** The Developer shall furnish drawings and cost estimates for all improvements described and detailed on Exhibit "B" for approval by the County. Upon request, the Developer shall furnish one set of reproducible "as built" drawings and a final statement of construction costs to the County.
3. **Construction.** Developer shall furnish and construct, at its own expense and in accordance with drawings and materials approved by the County, the improvements described and detailed on Exhibit "B."
4. **Time for Completion.** Improvements shall be completed according to the terms of this agreement within "construction completion date" appearing in Exhibit "B". The Director of Community and Economic Development Department may for good cause grant extension of time for completion of any part or all of improvements appearing on said Exhibit "B". Any extension greater than 180 days may be approved only by the Board of County Commissioners. All extensions of time shall be in written form only.
5. **Guarantee of Compliance.** Developer shall furnish to the County a cash escrow deposit or other acceptable collateral, releasable only by the County, to guarantee compliance with this agreement with respect to the construction of the improvements described on Exhibit "B." Said collateral shall be in the amount of \$1,139,584.32 including twenty percent (20%) to cover administration and five percent (5%) per year for the term of this agreement to cover inflation. Upon completion of the improvements described in Exhibit "B" in accordance with the terms of this agreement and the Preliminary Acceptance of such improvements by the Director of Public Works in accordance with section 5-02-05-01 of the County's Development Standards and Regulations, the collateral shall be released. Completion of said improvements shall be determined solely by the County. A reasonable part of said collateral, up to 20%, may be retained to guarantee maintenance of public improvements for a period of one year from the date of Preliminary Acceptance.

No Building Permits for the Property shall be issued until said collateral is furnished in the amount required and in a form acceptable to the Board of County Commissioners. No Certificate of Occupancy for the Property shall be issued until the improvements described in Exhibit "B" have received Preliminary Acceptance by the Department of Public Works in accordance with section 5-02-05-01 of the County's Development Standards and Regulations.

6. **Acceptance and Maintenance of Public Improvements.** All improvements designated "public" on Exhibit "B" shall be public facilities and become the property of the County or

other public agencies upon acceptance. During the period of one year from and after the acceptance of public improvements, the Developer shall, at its own expense, make all needed repairs or replacement due to defective materials or workmanship which, in the opinion of the County, becomes necessary. If, within ten days of written notice to the Developer from the County requesting such repairs or replacements, the Developer has not undertaken with due diligence to make the same, the County may make such repairs or replacements at the Developer's expense. In the case of an emergency such written notice may be waived.

7. **Successors and Assigns.** This agreement shall be binding upon the heirs, executors, personal representatives, successors, and assigns of the Developer, and shall be deemed a covenant running with the real property as described in Exhibit "A" attached hereto.
8. **Improvements and Dedication.** The undersigned Developer hereby agrees to provide the following improvements as set forth in Section 8.A, and to dedicate the property described as set forth in Section 8.B.

A. Improvements.

Public Improvements:

1. The developer shall construct sidewalk, curb and gutter, and curb-ramps along the section of 64th Avenue adjacent to the Property. An asphalt patch back to edge of existing asphalt shall extend 2' from the new gutter line. Developer shall furnish and construct the "public" improvements detailed in Exhibit "B" in accordance with all applicable Adams County requirements and specifications.
2. The developer shall construct sidewalk, curb and gutter, and curb-ramps along the section of Huron Street adjacent to and opposite of the Property; site access entrances; a drive entrance to the property to the east; and the cul-de-sac at the midpoint of Huron Street. Developer shall furnish and construct the "public" improvements detailed in Exhibit "B" in accordance with all applicable Adams County requirements and specifications.

Private Improvements:

3. The proposed underground water quality basin (ADS StormTech Basin) (the "On-Site Water Quality Facility") will detain the water quality volume required by Adams County, and release it at the appropriate rate through a hydro-dynamic separator as an additional cleaning measure. On-site stormwater is conveyed to the ADS system by gutter flow, inlets, and storm sewer. The ADS system will discharge into Clear Creek. Developer shall furnish and construct the "private" improvements detailed in Exhibit "B" in accordance with all Adams County requirements and specifications.

See Exhibit "B" for description, estimated quantities, and estimated construction costs. The improvements shall be constructed in accordance with all County requirements and specifications in accordance with the approved plans and time schedule as indicated in Exhibit "B."

- B. **Public dedication of land for right-of-way purposes or other public purpose.** Upon approval of this agreement by the Board of County Commissioners, the Developer hereby agrees to convey by special warranty deed to the County of Adams the areas shown on Exhibit "C" for right-of-way or other public purposes.
- C. **Ancillary Agreements.** Upon approval of this agreement by the Board of County Commissioners, the Developer hereby agrees to, if required by the County:
 1. Convey a Permanent Drainage Easement to the County encompassing and providing access to the On-Site Water Quality Facility.

2. Enter into a Maintenance Agreement with the County pursuant to which Developer shall agree to maintain a portion of North Huron Street (with such portion to be further described in the Maintenance Agreement).
3. Enter into an Easement with the County for the benefit of Developer allowing the storm system outfall for the On-Site Water Quality Facility to encroach onto the property immediately north of the Property, which property is owned by the County.

[Signatures appear on Following Pages]

DEVELOPER:

P8-DC INDUSTRIAL LAST MILE, LLC,
a Delaware limited liability company

By: [Signature]
Name: Jacob Finley
Its: AUTHORIZED SIGNATORY

STATE OF FLORIDA)
) ss
COUNTY OF COLLIER)

The foregoing instrument was acknowledged before me by means of physical presence or online notarization, this 9th day of October, 2020 by Jacob Finley.

Personally known to me or
 Produced identification,
Type of identification produced: _____.



Lijana A.
Notary Public
My Commission Expires: 1/22/2024
[Seal]

APPROVED BY resolution at the meeting of _____, 2020.

Collateral to guarantee compliance with this agreement and construction of public improvements shall be required in the amount of \$ 1,139,584.32. No building permits shall be issued until said collateral is furnished in the amount required and in a form acceptable to the Board of County Commissioners.

ATTEST:

BOARD OF COUNTY COMMISSIONERS
ADAMS COUNTY, COLORADO

Clerk of the Board

Chair

EXHIBIT A

(Legal Description of Property)

LOT 1, BLOCK 1,

CLEAR CREEK CONCEPTS AMENDED PLAT,

COUNTY OF ADAMS,

STATE OF COLORADO

EXHIBIT B
(Improvements)

Public Improvements: 64th Avenue

<u>Description</u>	<u>Est Qty</u>	<u>Unit</u>	<u>Est Unit Cost</u>	<u>Est Cost</u>
TRANSPORTATION				
Full-depth asphalt (6")	801	SY	\$ 38.00	\$ 30,438.00
6" vertical curb and gutter	1128	LF	\$ 22.00	\$ 24,816.00
5' Sidewalk	718	SY	\$ 66.00	\$ 47,388.00
ADA Curb Ramps	5	EA	\$ 2,250.00	\$ 11,250.00
Sidewalk Chase	1	EA	\$ 200.00	\$ 200.00
Sawcut	1390	LF	\$ 3.50	\$ 4,865.00
2" Asphalt Mill and Haul	802	SY	\$ 8.50	\$ 6,817.00
Subtotal:				\$ 125,774.00

Public Improvements: Huron Street

<u>Description</u>	<u>Est Qty</u>	<u>Unit</u>	<u>Est Unit Cost</u>	<u>Est Cost</u>
TRANSPORTATION				
Full-depth asphalt (6")	3836	SY	\$ 38.00	\$ 145,768.00
6" vertical curb and gutter	1624	LF	\$ 22.00	\$ 35,728.00
5' Sidewalk	361	SY	\$ 66.00	\$ 23,826.00
ADA Curb Ramps	2	EA	\$ 2,250.00	\$ 4,500.00
8' Concrete Crosspan	95	LF	\$ 45.00	\$ 4,275.00
2" Asphalt Mill and Haul	1838	SY	\$ 8.50	\$ 15,623.00
Subtotal:				\$ 229,720.00

Private Improvements: 64th and Huron Industrial On-Site Drainage Improvements

<u>Description</u>	<u>Est Qty</u>	<u>Unit</u>	<u>Est Unit Cost</u>	<u>Est Cost</u>
UTILITIES				
Riprap Outfall	296	CY	\$ 85.00	\$ 25,160.00
ADS WQ Structure (chambers, gravel, manholes, liner)	13460	SF	\$ 29.90	\$ 402,454.00
Clay / Concrete Cutoff Wall	3	EA	\$ 4,500.00	\$ 13,500.00
4' Concrete Manhole	1	EA	\$ 4,500.00	\$ 4,500.00
6' Concrete Manhole	1	EA	\$ 6,600.00	\$ 6,600.00
8' Concrete Manhole	1	EA	\$ 8,300.00	\$ 8,300.00
Downstream Defender	1	EA	\$ 20,000.00	\$ 20,000.00
Orifice Plate Assy. Inside 4' manhole	1	EA	\$ 3,600.00	\$ 3,600.00
18" RCP	22	LF	\$ 96.00	\$ 2,112.00
48" RCP	44	LF	\$ 298.00	\$ 13,112.00
72" RCP	66	LF	\$ 600.00	\$ 39,600.00
72" FES with Toewall	1	EA	\$ 10,000.00	\$ 10,000.00
Subtotal:				\$ 548,938.00

Construction Cost Estimate: \$ 904,432.00
20% Administration: \$ 180,886.40
5% Inflation: \$ 54,265.92
Total Collateral: \$ 1,139,584.32

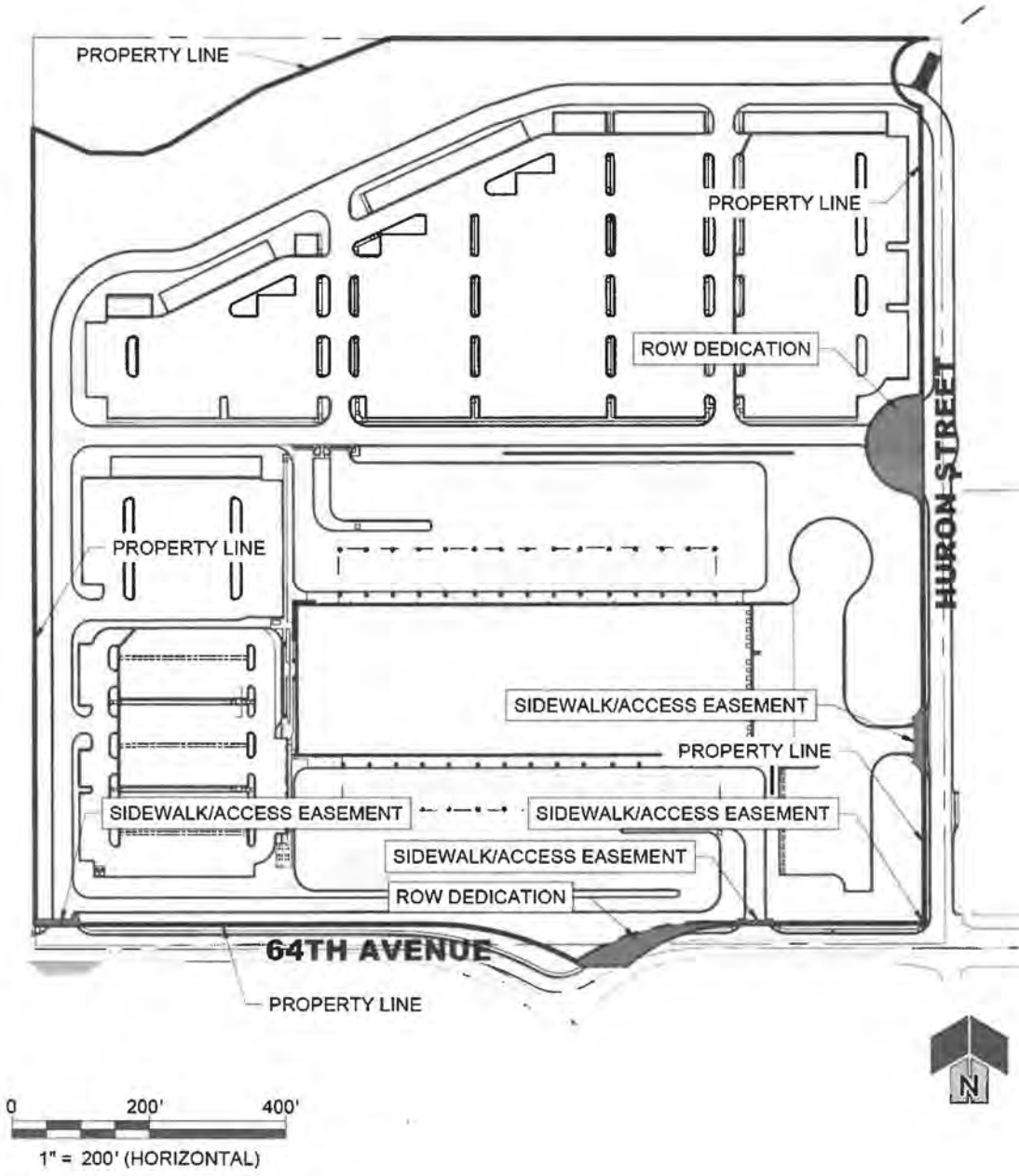
Estimated Construction Completion Date: 10/1/2021

Owner Initials: 

Initials or Signature of Developer: _____



EXHIBIT C
(Right of Way Dedication Areas)





PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Abatements
FROM: Meredith P. Van Horn, Assistant Adams County Attorney
AGENCY/DEPARTMENT: County Attorney
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners Approves the recommendations of the Assessor's Office for the attached abatement petitions.

BACKGROUND:

The Assessor's Office reviewed the attached abatement petitions concerning tax years 2018 and 2019 and has agreed to the abated values for the respective accounts. The findings and recommendations of the Assessor's Office are attached hereto for approval and adoption.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Adams County Assessor's Office

ATTACHED DOCUMENTS:

Resolution
Summary Findings and Recommendations of the Assessor's Office

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<hr/>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<hr/>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

RESOLUTION APPROVING ABATEMENT PETITIONS AND AUTHORIZING THE
REFUND OF TAXES FOR ACCOUNT NUMBERS R0030728, R0011801, R0184703,
P0034084, P0036164, and P0034702

WHEREAS, pursuant to C.R.S. § 39-1-113, the Board of County Commissioners may approve abatement petitions concerning property tax assessment and may refund taxes associated therewith; and,

WHEREAS, the attached petitions for account numbers R0030728, R0011801, R0184703, P0034084, P0036164, and P0034702 have been processed, reviewed and approved by the Adams County Assessor's Office; and,

WHEREAS, information regarding the initial assessed value and the justification for reduction in assessed value and refund of taxes is included for each property in the documentation attached; and,

WHEREAS, it is the recommendation of the Assessor's Office that these petitions be approved and refunds be issued by the Board of County Commissioners; and,

WHEREAS, for account numbers P0034084, P0036164 and P0034702 approval by the Board of County Commissioners shall be forwarded as a recommendation to the Colorado Property Tax Administrator for review and approval as required by C.R.S. §§ 39-1-113(3) and 39-2-116.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the abatement petitions for account numbers R0030728, R0011801 and R0184703 are hereby approved.

BE IT FURTHER RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the resolution approving the petition for account numbers P0034084, P0036164 and P0034702 be forwarded, for review, to the Colorado Property Tax Administrator to approve the abatement petition for the Property.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is hereby authorized to sign any attending documents related to the said petitions on behalf of Adams County.

PETITION FOR ABATEMENT OR REFUND OF TAXES

County: Adams

Date Received _____
(Use Assessor's or Commissioners' Date Stamp)

Section I: Petitioner, please complete Section I only.

Date: 08/06/2020
Month Day Year

Petitioner's Name: Lokal Homes LLC
 Petitioner's Mailing Address: 8310 S. Valley Hwy Suite 115
Englewood CO 80112
 City or Town State Zip Code

SCHEDULE OR PARCEL NUMBER(S) P0034702 (PIN) PROPERTY ADDRESS OR LEGAL DESCRIPTION OF PROPERTY 16007 E 118th Pl Commerce City

Petitioner requests an abatement or refund of the appropriate taxes and states that the taxes assessed against the above property for the property tax year 2019 are incorrect for the following reasons: (Briefly describe why the taxes have been levied erroneously or illegally, whether due to erroneous valuation, irregularity in levying, clerical error, or overvaluation. Attach additional sheets if necessary.)

Petitioner's estimate of value: \$ 0 2019
Value Year

I declare, under penalty of perjury in the second degree, that this petition, together with any accompanying exhibits or statements, has been prepared or examined by me, and to the best of my knowledge, information, and belief, is true, correct, and complete.

Petitioner's Signature Daytime Phone Number ()

By Wendy Gallip Email _____
Agent's Signature Daytime Phone Number 720-329-5025

Email ngallip@lokalhomes.com

*Letter of agency must be attached when petition is submitted by an agent.

If the Board of County Commissioners, pursuant to § 39-10-114(1), C.R.S., or the Property Tax Administrator, pursuant to § 39-2-116, C.R.S., denies the petition for refund or abatement of taxes in whole or in part, the Petitioner may appeal to the Board of Assessment Appeals pursuant to the provisions of § 39-2-125, C.R.S., within thirty days of the entry of any such decision, § 39-10-114.5(1), C.R.S.

Section II:		Assessor's Recommendation (For Assessor's Use Only)		
		Tax Year _____		
		<u>Actual</u>	<u>Assessed</u>	<u>Tax</u>
Original	_____	_____	_____	_____
Corrected	_____	_____	_____	_____
Abate/Refund	_____	_____	_____	_____
<input type="checkbox"/> Assessor recommends approval as outlined above.				
If the request for abatement is based upon the grounds of overvaluation, no abatement or refund of taxes shall be made if an objection or protest to such valuation has been filed and a Notice of Determination has been mailed to the taxpayer, § 39-10-114(1)(a)(i)(D), C.R.S.				
Tax year: _____ Protest? <input type="checkbox"/> No <input type="checkbox"/> Yes (If a protest was filed, please attach a copy of the NOD.)				
<input type="checkbox"/> Assessor recommends denial for the following reason(s):				

Assessor's or Deputy Assessor's Signature				

ABATEMENT FOR TAX YEAR:		2019
TODAYS DATE		09/16/20
BUSINESS NAME:	LOKAL HOMES LLC	
ACCOUNT NUMBER:	P0034702	
PARCEL NUMBER:		

	ACTUAL VALUE	ASSESSED VALUE	MILL LEVY	TAX DOLLARS
ORIGINAL VALUE	\$25,557	\$7,410	167.787	\$1,243.30
REVISED VALUE	\$0	\$0	167.787	\$0.00
ABATED VALUE	\$25,557	\$7,410	167.787	\$1,243.30

Provide your reason for the Abatement/Added in the space below:

PP deleted prior to 1/1/2019.

CTG

ADDED ASSESSMENT FOR TAX YEAR:

BUSINESS NAME:		
ACCOUNT NUMBER:		
PARCEL NUMBER:		

	ACTUAL VALUE	ASSESSED VALUE	MILL LEVY	TAX DOLLARS
ORIGINAL VALUE		\$0		\$0.00
REVISED VALUE		\$0	0	\$0.00
ADDED VALUE	\$0	\$0	0	\$0.00

PETITION FOR ABATEMENT OR REFUND OF TAXES

County: Adams

Date Received _____
(Use Assessor's or Commissioners' Date Stamp)

Section I: Petitioner, please complete Section I only.

Date: 08 / 06 / 2020
Month Day Year

Petitioner's Name: Lokal Homes LLC
 Petitioner's Mailing Address: 8310 S. Valley Hwy Suite 115
Englewood CO 80112
 City or Town State Zip Code

SCHEDULE OR PARCEL NUMBER(S) P0034084 (PIN) PROPERTY ADDRESS OR LEGAL DESCRIPTION OF PROPERTY 11588 Jasper St Commerce City

Petitioner requests an abatement or refund of the appropriate taxes and states that the taxes assessed against the above property for the property tax year 2019 are incorrect for the following reasons: (Briefly describe why the taxes have been levied erroneously or illegally, whether due to erroneous valuation, irregularity in levying, clerical error, or overvaluation. Attach additional sheets if necessary.)

Lokal Homes vacated the property as of 1/31/18. The property was rented to someone else after that date.

Petitioner's estimate of value: \$ 0 2019
Value Year

I declare, under penalty of perjury in the second degree, that this petition, together with any accompanying exhibits or statements, has been prepared or examined by me, and to the best of my knowledge, information, and belief, is true, correct, and complete.

Daytime Phone Number (720) 329-5025
 Email nga11ap@lokalhomes.com
 By Nga Gallop Daytime Phone Number ()
 Agent's Signature* Email _____

*Letter of agency must be attached when petition is submitted by an agent.

If the Board of County Commissioners, pursuant to § 39-10-114(1), C.R.S., or the Property Tax Administrator, pursuant to § 39-2-116, C.R.S., denies the petition for refund or abatement of taxes in whole or in part, the Petitioner may appeal to the Board of Assessment Appeals pursuant to the provisions of § 39-2-125, C.R.S., within thirty days of the entry of any such decision, § 39-10-114.5(1), C.R.S.

Section II: Assessor's Recommendation			
(For Assessor's Use Only)			
	Tax Year _____		
	Actual	Assessed	Tax
Original	_____	_____	_____
Corrected	_____	_____	_____
Abate/Refund	_____	_____	_____
<input type="checkbox"/> Assessor recommends approval as outlined above.			
If the request for abatement is based upon the grounds of overvaluation, no abatement or refund of taxes shall be made if an objection or protest to such valuation has been filed and a Notice of Determination has been mailed to the taxpayer. § 39-10-114(1)(a)(i)(D), C.R.S.			
Tax year: _____ Protest? <input type="checkbox"/> No <input type="checkbox"/> Yes (If a protest was filed, please attach a copy of the NOD.)			
<input type="checkbox"/> Assessor recommends denial for the following reason(s):			

Assessor's or Deputy Assessor's Signature _____			

ABATEMENT FOR TAX YEAR:		2019
TODAYS DATE		09/17/20
BUSINESS NAME:	LOKAL HOMES LLC	
ACCOUNT NUMBER:	P0034084	
PARCEL NUMBER:		

	ACTUAL VALUE	ASSESSED VALUE	MILL LEVY	TAX DOLLARS
ORIGINAL VALUE	\$31,412	\$9,110	167.787	\$1,528.54
REVISED VALUE	\$0	\$0	167.787	\$0.00
ABATED VALUE	\$31,412	\$9,110	167.787	\$1,528.54

Provide your reason for the Abatement/Added in the space below:

PP deleted prior to 1/1/19.

CTG

ADDED ASSESSMENT FOR TAX YEAR:

BUSINESS NAME:		
ACCOUNT NUMBER:		
PARCEL NUMBER:		

	ACTUAL VALUE	ASSESSED VALUE	MILL LEVY	TAX DOLLARS
ORIGINAL VALUE		\$0		\$0.00
REVISED VALUE		\$0	0	\$0.00
ADDED VALUE	\$0	\$0	0	\$0.00

PETITION FOR ABATEMENT OR REFUND OF TAXES

County: Adams

Date Received _____
(Use Assessor's or Commissioners' Date Stamp)

Section I: Petitioner, please complete Section I only.

Date: 08/06/2020
Month Day Year

Petitioner's Name: Lokal Homes LLC
 Petitioner's Mailing Address: 8310 S Valley Hwy Suite 115
Englewood CO 80113
 City or Town State Zip Code

SCHEDULE OR PARCEL NUMBER(S) PROPERTY ADDRESS OR LEGAL DESCRIPTION OF PROPERTY
PG0316164 (PIN) 12210 IDALIA PL Commerce City

Petitioner requests an abatement or refund of the appropriate taxes and states that the taxes assessed against the above property for the property tax year 2019 are incorrect for the following reasons: (Briefly describe why the taxes have been levied erroneously or illegally, whether due to erroneous valuation, irregularity in levying, clerical error, or overvaluation. Attach additional sheets if necessary.)

Petitioner's estimate of value: \$ 0 2019
 Value Year

I declare, under penalty of perjury in the second degree, that this petition, together with any accompanying exhibits or statements, has been prepared or examined by me, and to the best of my knowledge, information, and belief, is true, correct, and complete.

Petitioner's Signature _____ Daytime Phone Number () _____
 Email _____
 By Ngallp _____ Daytime Phone Number 720-329-5025
 Agent's Signature* _____ Email ngallp@lokalhomes.com

*Letter of agency must be attached when petition is submitted by an agent.
 If the Board of County Commissioners, pursuant to § 39-10-114(1), C.R.S., or the Property Tax Administrator, pursuant to § 39-2-116, C.R.S., denies the petition for refund or abatement of taxes in whole or in part, the Petitioner may appeal to the Board of Assessment Appeals pursuant to the provisions of § 39-2-125, C.R.S., within thirty days of the entry of any such decision. § 39-10-114.5(1), C.R.S.

Section II: Assessor's Recommendation (For Assessor's Use Only)			
	Tax Year _____		
	Actual	Assessed	Tax
Original	_____	_____	_____
Corrected	_____	_____	_____
Abate/Refund	_____	_____	_____
<input type="checkbox"/> Assessor recommends approval as outlined above.			
If the request for abatement is based upon the grounds of overvaluation, no abatement or refund of taxes shall be made if an objection or protest to such valuation has been filed and a Notice of Determination has been mailed to the taxpayer, § 39-10-114(1)(a)(i)(D), C.R.S.			
Tax year: _____ Protest? <input type="checkbox"/> No <input type="checkbox"/> Yes (If a protest was filed, please attach a copy of the NOD.)			
<input type="checkbox"/> Assessor recommends denial for the following reason(s):			

Assessor's or Deputy Assessor's Signature _____			

ABATEMENT FOR TAX YEAR:		2019
TODAYS DATE		09/16/20
BUSINESS NAME:	LOKAL HOMES LLC	
ACCOUNT NUMBER:	P0036164	
PARCEL NUMBER:		

	ACTUAL VALUE	ASSESSED VALUE	MILL LEVY	TAX DOLLARS
ORIGINAL VALUE	\$38,717	\$11,230	167.787	\$1,884.25
REVISED VALUE	\$0	\$0	167.787	\$0.00
ABATED VALUE	\$38,717	\$11,230	167.787	\$1,884.25

Provide your reason for the Abatement/Added in the space below:

PP deleted prior to 1/1/2019.

etc

ADDED ASSESSMENT FOR TAX YEAR:

BUSINESS NAME:		
ACCOUNT NUMBER:		
PARCEL NUMBER:		

	ACTUAL VALUE	ASSESSED VALUE	MILL LEVY	TAX DOLLARS
ORIGINAL VALUE		\$0		\$0.00
REVISED VALUE		\$0	0	\$0.00
ADDED VALUE	\$0	\$0	0	\$0.00

ADMINNO: 3396203

To: ADAMS TREASURER

From: ADAMS ASSESSOR

Correction Type: ABATEMENT

Name: CHP METRO NORTH LLC

Account #: R0030728

Map #:

Address:

Parcel #: 0171903123001

7180 E ORCHARD RD STE 200

Account Type Commercial

CENTENNIAL, CO 80111-1726

Sub\Lot\Block 2172 \ 1 \ 1

Legal Desc: SUB:GRANT PLACE BLK:1 LOT:1

Tax District: 806	Actual Value	Assessed Value	Mill Levy	Total Tax	Penalty \$
Prior Values	\$12,369,519.00	\$3,587,160.00	127.8460	\$458,604.06	\$0.00
Adjusted Values	\$11,858,998.00	\$3,439,110.00	127.8460	\$439,676.46	\$0.00
<i>Difference Decrease Tax Roll</i>	<i>-\$510,521.00</i>	<i>-\$148,050.00</i>	<i>0.0000</i>	<i>-\$18,927.60</i>	<i>\$0.00</i>

Reason TAXABLE TO EXEMPT

Appraiser

Date

Reviewed By

Date

Signature

Date

09/18/2020

PETITION FOR ABATEMENT OR REFUND OF TAXES

County: Adams

Date Received (Use Assessor's or Commissioners' Date Stamp)

Section I: Petitioner, please complete Section I only.

Date: 9/17/20 (Month Day Year)

Petitioner's Name: Centum Health Properties
Petitioner's Mailing Address: 5920 S Estes St, Suite 100
Littleton CO 80123
City or Town State Zip Code

Table with 2 columns: SCHEDULE OR PARCEL NUMBER(S) and PROPERTY ADDRESS OR LEGAL DESCRIPTION OF PROPERTY. Row 1: 0171903123001, 11990 Grant St, Northglenn 80229

Petitioner requests an abatement or refund of the appropriate taxes and states that the taxes assessed against the above property for the property tax year 2019 are incorrect for the following reasons: (Briefly describe why the taxes have been levied erroneously or illegally, whether due to erroneous valuation, irregularity in levying, clerical error, or overvaluation. Attach additional sheets if necessary.)

Due to clerical error on 2019 taxes, Centum Health Properties was not given tax credit for 2 tenants that are tax exempt. These tenants are; Adams County Division of Vocational Rehab, and Adams County. As such, Centum Health Properties is requesting formal review of the 2019 tax assessment.

Petitioner's estimate of value: \$ () (Value Year)

I declare, under penalty of perjury in the second degree, that this petition, together with any accompanying exhibits or statements, has been prepared or examined by me, and to the best of my knowledge, information, and belief, is true, correct, and complete.

Erin Kettelson (Petitioner's Signature) Daytime Phone Number 720-690-5369
erin.kettelson@centumhealth.com
By (Agent's Signature) Daytime Phone Number () Email

*Letter of agency must be attached when petition is submitted by an agent.

If the Board of County Commissioners, pursuant to § 39-10-114(1), C.R.S., or the Property Tax Administrator, pursuant to § 39-2-116, C.R.S., denies the petition for refund or abatement of taxes in whole or in part, the Petitioner may appeal to the Board of Assessment Appeals pursuant to the provisions of § 39-2-125, C.R.S., within thirty days of the entry of any such decision, § 39-10-114.5(1), C.R.S.

Section II: Assessor's Recommendation (For Assessor's Use Only)
Tax Year
Actual Assessed Tax
Original
Corrected
Abate/Refund
Assessor recommends approval as outlined above.
If the request for abatement is based upon the grounds of overvaluation, no abatement or refund of taxes shall be made if an objection or protest to such valuation has been filed and a Notice of Determination has been mailed to the taxpayer, § 39-10-114(1)(a)(I)(D), C.R.S.
Tax year: Protest? No Yes (If a protest was filed, please attach a copy of the NOD.)
Assessor recommends denial for the following reason(s):
Assessor's or Deputy Assessor's Signature

FOR ASSESSORS AND COUNTY COMMISSIONERS USE ONLY
(Section III or Section IV must be completed)

Every petition for abatement or refund filed pursuant to § 39-10-114, C.R.S. shall be acted upon pursuant to the provisions of this section by the Board of County Commissioners or the Assessor, as appropriate, within six months of the date of filing such petition, § 39-1-113(1.7), C.R.S.

Section III: Written Mutual Agreement of Assessor and Petitioner
(Only for abatements up to \$10,000)

The Commissioners of _____ County authorize the Assessor by Resolution No. _____ to review petitions for abatement or refund and to settle by written mutual agreement any such petition for abatement or refund in an amount of \$10,000 or less per tract, parcel, or lot of land or per schedule of personal property, in accordance with § 39-1-113(1.5), C.R.S.

The Assessor and Petitioner mutually agree to the values and tax abatement/refund of:

	Tax Year _____		
	<u>Actual</u>	<u>Assessed</u>	<u>Tax</u>
Original	_____	_____	_____
Corrected	_____	_____	_____
Abate/Refund	_____	_____	_____

Note: The total tax amount does not include accrued interest, penalties, and fees associated with late and/or delinquent tax payments, if applicable. Please contact the County Treasurer for full payment information.

Petitioner's Signature Date

Assessor's or Deputy Assessor's Signature Date

Section IV: Decision of the County Commissioners
(Must be completed if Section III does not apply)

WHEREAS, the County Commissioners of _____ County, State of Colorado, at a duly and lawfully called regular meeting held on ____/____/____, at which meeting there were present the following members:

Month Day Year

with notice of such meeting and an opportunity to be present having been given to the Petitioner and the Assessor of said County and Assessor _____ (*being present--not present*) and
Name
Petitioner _____ (*being present--not present*), and WHEREAS, the said
Name
County Commissioners have carefully considered the within petition, and are fully advised in relation thereto, NOW BE IT RESOLVED that the Board (*agrees--does not agree*) with the recommendation of the Assessor, and that the petition be (*approved--approved in part--denied*) with an abatement/refund as follows:

Year	Assessed Value	Taxes Abate/Refund
_____	_____	_____

Chairperson of the Board of County Commissioners' Signature

I, _____ County Clerk and Ex-Officio Clerk of the Board of County Commissioners in and for the aforementioned county, do hereby certify that the above and foregoing order is truly copied from the record of the proceedings of the Board of County Commissioners.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said County
this _____ day of _____,
Month Year

County Clerk's or Deputy County Clerk's Signature

Note: Abatements greater than \$10,000 per schedule, per year, must be submitted in duplicate to the Property Tax Administrator for review.

Section V: Action of the Property Tax Administrator
(For all abatements greater than \$10,000)

The action of the Board of County Commissioners, relative to this petition, is hereby

Approved Approved in part \$ _____ Denied for the following reason(s):

Secretary's Signature Property Tax Administrator's Signature Date

ADMINNO: 3396074

Tax Year: 2018

To: ADAMS TREASURER

From: ADAMS ASSESSOR

Correction Type:

Name: BAUM PROPERTIES LLC

Account #: R0011801

C/O UC HEALTH ACCOUNTS PAYABLE

Map #:

Address: MAIL STOP A-037

Parcel #: 0157131326004

12401 E 17TH AVE

Account Type: Commercial

AURORA, CO 80045-2548

Sub\Lot\Block: 3654 \ 4 \

Legal Desc: SUB:COLORADO PLAZA LOT:4

Tax District:	180	Actual Value	Assessed Value	Mill Levy	Total Tax	Penalty \$
Prior Values		\$1,184,706.00	\$343,570.00	115.07	\$39,534.60	\$0.00
Adjusted Values		\$512,832.00	\$148,720.00	115.07	\$17,113.21	\$0.00
<i>Difference Decrease Tax Roll</i>		<i>-\$671,874.00</i>	<i>-\$194,850.00</i>	<i>0.00</i>	<i>-\$22,421.39</i>	<i>\$0.00</i>

Reason: TAXABLE TO EXEMPT

Appraiser **Date**

Reviewed By **Date**

Signature **Date**

ADMINNO: 3396075

Tax Year: 2019

To: ADAMS TREASURER

From: ADAMS ASSESSOR

Correction Type:		Name:	BAUM PROPERTIES LLC
Account #:	R0011801		C/O UC HEALTH ACCOUNTS PAYABLE
Map #:		Address:	MAIL STOP A-037
Parcel #:	0157131326004		12401 E 17TH AVE
Account Type	Exempt		AURORA, CO 80045-2548
Sub\Lot\Block	3654 \ 4 \		
Legal Desc:	SUB:COLORADO PLAZA LOT:4		

Tax District:	180	Actual Value	Assessed Value	Mill Levy	Total Tax	Penalty \$
Prior Values		\$1,352,244.00	\$392,150.00	111.7850	\$43,836.49	\$0.00
Adjusted Values		\$0.00	\$0.00	0	\$0.00	\$0.00
Difference	Decrease Tax Roll	-\$1,352,244.00	-\$392,150.00	-111.7850	-\$43,836.49	\$0.00

Reason TAXABLE TO EXEMPT

Appraiser **Date**

Reviewed By **Date**

Signature **Date**

PETITION FOR ABATEMENT OR REFUND OF TAXES

County: Adams County

Date Received _____
(Use Assessor's or Commissioners' Date Stamp)

Section I: Petitioner, please complete Section I only.

Date: 09/09/2020
Month Day Year

Petitioner's Name: University of Colorado Hospital Authority (Doug Hinckley - Director of Real Estate)

Petitioner's Mailing Address: 12401 E. 17th Avenue, MS A037
Aurora CO 80045
City or Town State Zip Code

SCHEDULE OR PARCEL NUMBER(S)	PROPERTY ADDRESS OR LEGAL DESCRIPTION OF PROPERTY
<u>0172318102016</u>	<u>15100 E 104th Ave, Commerce City, CO 80022</u>
<u>0157131326004</u>	<u>12020 Colorado Blvd, Thornton, CO 80241</u>

Petitioner requests an abatement or refund of the appropriate taxes and states that the taxes assessed against the above property for property tax year(s) 2018 and 2019 are incorrect for the following reasons: (Briefly describe why the taxes have been levied erroneously or illegally, whether due to erroneous valuation, irregularity in levying, clerical error or overvaluation. Attach additional sheets if necessary.)

0172318102016 - Requesting tax refund from April 23, 2018 to Current Date.

0157131326004 - Requesting tax refund from June 8, 2018 to Current Date.

These properties are operated by University of Colorado Hospital Authority as Emergency Rooms and UCHA is a tax exempt entity. We are requesting a tax refund for the above dates and tax exemption moving forward.

Petitioner's estimate of value: \$ _____ (2018) and \$ _____ (2019)
Value Year Value Year

I declare, under penalty of perjury in the second degree, that this petition, together with any accompanying exhibits or statements, has been prepared or examined by me, and to the best of my knowledge, information and belief, is true, correct, and complete.


Petitioner's Signature

Daytime Phone Number (720) 848.7232
Email Doug.Hinckley@uchealth.org

By _____
Agent's Signature*

Daytime Phone Number (_____)

Printed Name: Doug Hinckley

Email _____

*Letter of agency must be attached when petition is submitted by an agent.

If the Board of County Commissioners, pursuant to § 39-10-114(1), C.R.S., or the Property Tax Administrator, pursuant to § 39-2-116, C.R.S., denies the petition for refund or abatement of taxes in whole or in part, the Petitioner may appeal to the Board of Assessment Appeals pursuant to the provisions of § 39-2-125, C.R.S., within thirty days of the entry of any such decision, § 39-10-114.5(1), C.R.S.

	Tax Year _____			Tax Year _____		
	Actual	Assessed	Tax	Actual	Assessed	Tax
Original	_____	_____	_____	_____	_____	_____
Corrected	_____	_____	_____	_____	_____	_____
Abate/Refund	_____	_____	_____	_____	_____	_____

Assessor recommends approval as outlined above.

If the request for abatement is based upon the grounds of overvaluation, no abatement or refund of taxes shall be made if an objection or protest to such valuation has been filed and a Notice of Determination has been mailed to the taxpayer, § 39-10-114(1)(a)(1)(D), C.R.S.

Tax year: _____ Protest? No Yes (If a protest was filed, please attach a copy of the NOD.)

Tax year: _____ Protest? No Yes (If a protest was filed, please attach a copy of the NOD.)

Assessor recommends denial for the following reason(s):

Assessor's or Deputy Assessor's Signature

ADMINNO: 3396200

Tax Year: 2018

To: ADAMS TREASURER

From: ADAMS ASSESSOR

Correction Type: ABATEMENT

Name: MPT OF COMMERCE CITY FCER LLC

Account #: R0184703

C/O MEDICAL PROPERTIES TRUST INC

Map #:

Address: 1000 URBAN CENTER DR STE 501

Parcel #: 0172318102016

VESTAVIA, AL 35242-2225

Account Type Commercial

Sub\Lot\Block 5283 \ 4 \

Legal Desc: ASPEN HILLS COMMERCIAL FLG 2 LOT 4

Tax District:	176	Actual Value	Assessed Value	Mill Levy	Total Tax	Penalty \$
Prior Values		\$1,917,911.00	\$556,190.00	168.1860	\$93,543.37	\$0.00
Adjusted Values		\$588,510.00	\$170,670.00	168.1860	\$28,704.30	\$0.00
Difference Decrease Tax Roll		-\$1,329,401.00	-\$385,520.00	0.0000	-\$64,839.07	\$0.00

Reason TAXABLE TO EXEMPT

Appraiser _____ Date _____

Reviewed By _____ Date _____

Signature _____ Date _____

ADMINNO: 3396201

Tax Year: 2019

To: ADAMS TREASURER

From: ADAMS ASSESSOR

Correction Type: ABATEMENT

Name: MPT OF COMMERCE CITY FCER LLC

Account #: R0184703

C/O MEDICAL PROPERTIES TRUST INC

Map #:

Address: 1000 URBAN CENTER DR STE 501

Parcel #: 0172318102016

VESTAVIA, AL 35242-2225

Account Type: Exempt

Sub\Lot\Block: 5283 \ 4 \

Legal Desc: ASPEN HILLS COMMERCIAL FLG 2 LOT 4

Tax District:	176	Actual Value	Assessed Value	Mill Levy	Total Tax	Penalty \$
Prior Values		\$2,182,659.00	\$632,970.00	150.7040	\$95,391.11	\$0.00
Adjusted Values		\$0.00	\$0.00	0	\$0.00	\$0.00
Difference	Decrease Tax Roll	-\$2,182,659.00	-\$632,970.00	-150.7040	-\$95,391.11	\$0.00

Reason: TAXABLE TO EXEMPT

Appraiser **Date**

Reviewed By **Date**

Signature **Date**

FOR ASSESSORS AND COUNTY COMMISSIONERS USE ONLY

(Section III or Section IV must be completed)

Every petition for abatement or refund filed pursuant to § 39-10-114, C.R.S. shall be acted upon pursuant to the provisions of this section by the Board of County Commissioners or the Assessor, as appropriate, within six months of the date of filing such petition, § 39-1-113(1.7), C.R.S.

Section III: Written Mutual Agreement of Assessor and Petitioner
(Only for abatements up to \$10,000)

The Commissioners of _____ County authorize the Assessor by Resolution No. _____ to review petitions for abatement or refund and to settle by written mutual agreement any such petition for abatement or refund in an amount of \$10,000 or less per tract, parcel, or lot of land or per schedule of personal property, in accordance with § 39-1-113(1.5), C.R.S.

The Assessor and Petitioner mutually agree to the values and tax abatement/refund of:

	Tax Year _____			Tax Year _____		
	Actual	Assessed	Tax	Actual	Assessed	Tax
Original	_____	_____	_____	_____	_____	_____
Corrected	_____	_____	_____	_____	_____	_____
Abate/Refund	_____	_____	_____	_____	_____	_____

Note: The total tax amount does not include accrued interest, penalties, and fees associated with late and/or delinquent tax payments, if applicable. Please contact the County Treasurer for full payment information.

Petitioner's Signature

Date

Assessor's or Deputy Assessor's Signature

Date

Section IV: Decision of the County Commissioners
(Must be completed if Section III does not apply)

WHEREAS, the County Commissioners of _____ County, State of Colorado, at a duly and lawfully called regular meeting held on _____ / _____ / _____, at which meeting there were present the following members:

Month Day Year

_____ (being present--not present) and
Petitioner _____ (being present--not present), and WHEREAS, the said
County Commissioners have carefully considered the within petition, and are fully advised in relation thereto,
NOW BE IT RESOLVED, that the Board (~~agrees--does not agree~~) with the recommendation of the Assessor and the petition be (~~approved--approved in part--denied~~) with an abatement/refund as follows:

Year	Assessed Value	Taxes Abate/Refund	Year	Assessed Value	Taxes Abate/Refund
_____	_____	_____	_____	_____	_____

Chairperson of the Board of County Commissioners' Signature

I, _____ County Clerk and Ex-officio Clerk of the Board of County Commissioners in and for the aforementioned county, do hereby certify that the above and foregoing order is truly copied from the record of the proceedings of the Board of County Commissioners.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said County
this _____ day of _____, _____
Month Year

County Clerk's or Deputy County Clerk's Signature

Note: Abatements greater than \$10,000 per schedule, per year, must be submitted in duplicate to the Property Tax Administrator for review.

Section V: Action of the Property Tax Administrator
(For all abatements greater than \$10,000)

The action of the Board of County Commissioners, relative to this abatement petition, is hereby

Approved Approved in part \$ _____ Denied for the following reason(s):

_____ Secretary's Signature

_____ Property Tax Administrator's Signature

_____ Date

PETITION FOR ABATEMENT OR REFUND OF TAXES

County: Adams County

Date Received _____
(Use Assessor's or Commissioners' Date Stamp)

Section I: Petitioner, please complete Section I only.

Date: 09/09/2020
Month Day Year

Petitioner's Name: University of Colorado Hospital Authority (Doug Hinckley - Director of Real Estate)

Petitioner's Mailing Address: 12401 E. 17th Avenue, MS A037
Aurora CO 80045
City or Town State Zip Code

SCHEDULE OR PARCEL NUMBER(S)	PROPERTY ADDRESS OR LEGAL DESCRIPTION OF PROPERTY
<u>0172318102016</u>	<u>15100 E 104th Ave, Commerce City, CO 80022</u>
<u>0157131326004</u>	<u>12020 Colorado Blvd, Thornton, CO 80241</u>

Petitioner requests an abatement or refund of the appropriate taxes and states that the taxes assessed against the above property for property tax year(s) 2018 and 2019 are incorrect for the following reasons: (Briefly describe why the taxes have been levied erroneously or illegally, whether due to erroneous valuation, irregularity in levying, clerical error or overvaluation. Attach additional sheets if necessary.)

0172318102016 - Requesting tax refund from April 23, 2018 to Current Date.

0157131326004 - Requesting tax refund from June 8, 2018 to Current Date.

These properties are operated by University of Colorado Hospital Authority as Emergency Rooms and UCHA is a tax exempt entity. We are requesting a tax refund for the above dates and tax exemption moving forward.

Petitioner's estimate of value: \$ _____ (2018) and \$ _____ (2019)
Value Year Value Year

I declare, under penalty of perjury in the second degree, that this petition, together with any accompanying exhibits or statements, has been prepared or examined by me, and to the best of my knowledge, information and belief, is true, correct, and complete.


Petitioner's Signature

Daytime Phone Number (720) 848.7232
Email Doug.Hinckley@uchealth.org

By _____
Agent's Signature*

Daytime Phone Number (_____)

Printed Name: Doug Hinckley

Email _____

*Letter of agency must be attached when petition is submitted by an agent.

If the Board of County Commissioners, pursuant to § 39-10-114(1), C.R.S., or the Property Tax Administrator, pursuant to § 39-2-116, C.R.S., denies the petition for refund or abatement of taxes in whole or in part, the Petitioner may appeal to the Board of Assessment Appeals pursuant to the provisions of § 39-2-125, C.R.S., within thirty days of the entry of any such decision, § 39-10-114.5(1), C.R.S.

	Tax Year _____			Tax Year _____		
	Actual	Assessed	Tax	Actual	Assessed	Tax
Original	_____	_____	_____	_____	_____	_____
Corrected	_____	_____	_____	_____	_____	_____
Abate/Refund	_____	_____	_____	_____	_____	_____

Assessor recommends approval as outlined above.

If the request for abatement is based upon the grounds of overvaluation, no abatement or refund of taxes shall be made if an objection or protest to such valuation has been filed and a Notice of Determination has been mailed to the taxpayer, § 39-10-114(1)(a)(1)(D), C.R.S.

Tax year: _____ Protest? No Yes (If a protest was filed, please attach a copy of the NOD.)

Tax year: _____ Protest? No Yes (If a protest was filed, please attach a copy of the NOD.)

Assessor recommends denial for the following reason(s):

Assessor's or Deputy Assessor's Signature



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Resolution approving right-of-way agreement between Adams County and Maria Soto and Edgar Enrique Soto for property necessary for the Miscellaneous Concrete and ADA Ramps Project
FROM: Kristin Sullivan, AICP, Director of Public Works Brian Staley, P.E., PTOE, Deputy Director of Public Works
AGENCY/DEPARTMENT: Public Works
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves the right-of-way agreement for acquisition of property needed for road right-of-way.

BACKGROUND:

Adams County is in the process of acquiring right-of-way along the Broadway Street-Conifer Road corridor from U.S. Highway 36 to 84th Avenue for the Miscellaneous Concrete and ADA Ramps Project. The intention of this Project is to identify and improve the overall mobility and accessibility of maturing neighborhoods with ADA accessibility connectivity including ADA-compliant sidewalks and the addition of ADA pedestrian ramps. Attached is a copy of the right-of-way agreement between Adams County and Maria Soto and Edgar Enrique Soto for acquisition of road right-of-way for \$553.00. The attached resolution allows the County to acquire ownership of the needed property for the use of the public and provide the necessary documents to close on the property.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Adams County Public Works, Office of the County Attorney and Adams County Board of County Commissioners.

ATTACHED DOCUMENTS:

Draft resolution
Right-of-way agreement

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 13
Cost Center: 3058

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<u> </u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:	7820		\$1,000,000
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>\$1,000,000</u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING RIGHT-OF-WAY AGREEMENT
BETWEEN ADAMS COUNTY AND MARIA SOTO AND EDGAR ENRIQUE SOTO
FOR PROPERTY NECESSARY FOR
THE MISCELLANEOUS CONCRETE AND ADA RAMPS PROJECT

WHEREAS, Adams County is in the process of acquiring right-of-way along Broadway Street-Conifer Road corridor from U.S. Highway 36 to 84th Avenue for the Miscellaneous Concrete and ADA Ramps Project (“Project”); and,

WHEREAS, the intention of this Project is to identify and improve the overall mobility and accessibility of maturing neighborhoods with ADA accessibility connectivity including ADA-compliant sidewalks and the addition of ADA pedestrian ramps (“Improvements”) where absent; and,

WHEREAS, this right-of-way acquisition is a portion of 8349 Cherokee Street located in the Southwest Quarter of Section 27, Township 2 South, Range 68 West of the 6th Principal Meridian, County of Adams, State of Colorado, and owned by Maria Soto and Edgar Enrique Soto (“Parcel 3”); and,

WHEREAS, Adams County requires ownership of Parcel 3 for construction of the Improvements; and,

WHEREAS, Maria Soto and Edgar Enrique Soto are willing to sell Parcel 3 to Adams County under the terms and conditions of the attached Right-of-Way Agreement.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, County of Adams, State of Colorado, that the attached Right-of-Way Agreement between Adams County and Maria Soto and Edgar Enrique Soto, a copy of which is attached hereto and incorporated herein by this reference, be and hereby is approved.

BE IT FURTHER RESOLVED that the Chair of the Board of County Commissioners is hereby authorized to execute said Right-of-Way Agreement on behalf of Adams County.

Right-of-Way Agreement

This Agreement is made and entered into by and between **Maria Soto and Edgar Enrique Soto** whose address is **8349 Cherokee Street, Denver, CO 80221** (“Owner”), and the County of Adams, State of Colorado, a body politic, who address is 4430 South Adams County Parkway, Brighton, Colorado, 80601 (“County”) for the conveyance of rights-of-way on property located at **8349 Cherokee Street, Denver, CO 80221** hereinafter (the “Property”) for the Miscellaneous Concrete and ADA Ramps Project (the “Project”). The legal description and conveyance documents for the interests on said Property are set forth in Exhibit A attached hereto and incorporated herein by this reference.

The compensation agreed to by the Owner and the County for the acquisition of the Property interests described herein is **FIVE HUNDRED FIFTY-THREE AND NO/100 DOLLARS (\$553.00)**, including the performance of the terms of this Agreement, the sufficiency of which is hereby acknowledged. The parties further agree that the consideration shall consist of \$468.00 for the acquisition of road right-of-way, \$40.00 for sprinkler head and tubing, and \$45.00 for Sod. This consideration has been agreed upon and between the parties as the total just compensation due to the Owner and the consideration shall be given and accepted in full satisfaction of this Agreement.

In consideration of the above premises and the mutual promise and covenants below, the Owner and the County agree to the following:

1. The Owner hereby warrants that the Owner is the sole Owner of the Property, that the Owner owns the Property in fee simple subject only to matters of record and that the Owner has the power to enter into this Agreement.
2. The Owner agrees to execute and deliver to the County the attached conveyance documents on the property upon tender by the County of a warrant (check) for the compensation agreed upon as soon as possible following the execution of this agreement.
3. Owner hereby irrevocably grants to the County possession and use of the property interests on the Property upon execution of this Agreement by the Owner and the County. This grant of possession shall remain in effect with respect to the Property until such time as the County obtains from the Owner the attached conveyance documents.
4. The County through its contractor shall assure that reasonable access shall be maintained to the Owner’s property at all times for ingress and egress. If necessary, any full closure of access shall be coordinated between the contractor and the Owner and/or its agent.

5. The County will remove approximately 39 square feet of sod and sprinkler system head and tubing. But the County has agreed to reimburse the owner the expense of the sod and sprinkler system head and tubing and made a part of this Agreement.
6. The Owner has entered into this Agreement acknowledging that the County has the power of eminent domain and required the Property for a public purpose.
7. If the Owner fails to consummate this agreement for any reason, except the County's default, the County may at its option, enforce this agreement by bringing an action against the Owner for specific performance.
8. This Agreement contains all agreements, understandings and promises between the Owner and the County, relating to the Project and shall be deemed a contract binding upon the Owner and County and extending to the successors, heirs and assigns.
9. Owner shall be responsible for reporting proceeds of the sale to taxing authorities, including the submittal of Form 1099-S with the Internal Revenue Service, if applicable.
10. This Agreement has been entered into in the State of Colorado and shall be governed according to the laws thereof.

Owner:

By: Maria Soto
 Maria Soto

By: EDGAR E. SOTO
 Edgar Enrique Soto

Date: 9-24-2020

Date: 9-24-2020

Approved:

BOARD OF COUNTY COMMISSIONERS-COUNTY OF ADAMS, STATE OF COLORADO

 Chair

 Date

Approved as to Form:

 County Attorney

EXHIBIT "A"

**DEED FROM MARIA AND EDGAR ENRIQUE SOTO,
TO
THE COUNTY OF ADAMS, STATE OF COLORADO**

Legal Description

Being a portion of Lot 6 Block 4 of the SHERRELWOOD ESTATES FILING NO. 7, a Subdivision recorded on February 24, 1960 in File No. 10 Map 352 Reception No. 602722 in the Office of the Clerk and Recorder of Adams County, Colorado, located in the Southwest Quarter of Section 27, Township 2 South, Range 68 West of the 6th Principal Meridian, being more particularly described as follows:

Beginning at the Southeast Corner of said Lot 6, thence N89°59'23" West, along the South line of said Lot 6, a distance of 6.00 feet;

Thence leaving said South line, North 24°47'08" East, a distance of 14.32 feet to a point on the East line of said Lot 6;

Thence South 00°00'37" West, along the East line of said Lot 6, a distance of 13.00 feet to the Point of Beginning.

Containing: 39 square feet, more or less.

Legal description prepared by:

Ian Cortez, PLS
Colorado Professional
Land Surveyor No. 32822
For and on behalf of:
Adams County, Colorado

Exhibit "B" attached and hereby made a part thereof.



A handwritten signature in black ink, appearing to read "Ian Cortez", written over the bottom portion of the professional seal.

ADAMS COUNTY PUBLIC WORKS

EXHIBIT "B"

LOCATED in the SW1/4 of SEC 27, T2S, R68W of the 6th P.M.,
COUNTY OF ADAMS, STATE OF COLORADO

MARIA SOTO AND
EDGAR ENRIQUE SOTO

8349 CHEROKEE STREET
PN: 1719-27-3-03-006

LOT 6 BLOCK 4
SHERRELWOOD ESTATES
FILING NO. 7

AREA = 39 S.F., ±

N24°47'08"E
14.32'

N89°59'23"W
6.00'

POINT OF
BEGINNING

S00°00'37"W
13.00'

DAKIN STREET

W. 83RD AVENUE



LINEAL UNITS=US SURVEY FEET



THIS EXHIBIT IS NOT A BOUNDARY
SURVEY AND SHOULD NOT BE USED AS
SUCH. IT IS INTENDED ONLY TO DEPICT
THE ATTACHED LEGAL DESCRIPTION.



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Resolution approving right-of-way agreement between Adams County and Mt. Zion Lutheran Church for property necessary for the Miscellaneous Concrete and ADA Ramps Project
FROM: Kristin Sullivan, AICP, Director of Public Works Brian Staley, P.E., PTOE, Deputy Director of Public Works
AGENCY/DEPARTMENT: Public Works
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves the right-of-way agreement for acquisition of property needed for road right-of-way.

BACKGROUND:

Adams County is in the process of acquiring right-of-way along the Broadway Street-Conifer Road corridor from U.S. Highway 36 to 84th Avenue for the Miscellaneous Concrete and ADA Ramps Project. The intention of this Project is to identify and improve the overall mobility and accessibility of maturing neighborhoods with ADA accessibility connectivity including ADA-compliant sidewalks and the addition of ADA pedestrian ramps. Attached is a copy of the right-of-way agreement between Adams County and Mt. Zion Lutheran Church, a Colorado Nonprofit Corporation, for acquisition of road right-of-way for \$792.00. The attached resolution allows the County to acquire ownership of the needed property for the use of the public and provide the necessary documents to close on the property.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Adams County Public Works, Office of the County Attorney and Adams County Board of County Commissioners.

ATTACHED DOCUMENTS:

Draft resolution
Right-of-way agreement

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 13
Cost Center: 3058

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<u> </u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:	7820		\$1,000,000
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>\$1,000,000</u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING RIGHT-OF-WAY AGREEMENT
BETWEEN ADAMS COUNTY AND MT. ZION LUTHERAN CHURCH
FOR PROPERTY NECESSARY FOR
THE MISCELLANEOUS CONCRETE AND ADA RAMPS PROJECT

WHEREAS, Adams County is in the process of acquiring right-of-way along Broadway Street-Conifer Road corridor from U.S. Highway 36 to 84th Avenue for the Miscellaneous Concrete and ADA Ramps Project (“Project”); and,

WHEREAS, the intention of this Project is to identify and improve the overall mobility and accessibility of maturing neighborhoods with ADA accessibility connectivity including ADA-compliant sidewalks and the addition of ADA pedestrian ramps (“Improvements”) where absent; and,

WHEREAS, this right-of-way acquisition is a portion of 500 Drake Street located in the Northwest Quarter of Section 34, Township 2 South, Range 68 West of the 6th Principal Meridian, County of Adams, State of Colorado, and owned by Mt. Zion Lutheran Church, a Colorado Nonprofit Corporation; and,

WHEREAS, Adams County requires ownership of two parcels of 500 Drake Street for construction of the Improvements; and,

WHEREAS, Mt. Zion Lutheran Church, a Colorado Nonprofit Corporation, is willing to sell two parcels to Adams County under the terms and conditions of the attached Right-of-Way Agreement.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, County of Adams, State of Colorado, that the attached Right-of-Way Agreement between Adams County and Mt. Zion Lutheran Church, a Colorado Nonprofit Corporation, a copy of which is attached hereto and incorporated herein by this reference, be and hereby is approved.

BE IT FURTHER RESOLVED that the Chair of the Board of County Commissioners is hereby authorized to execute said Right-of-Way Agreement on behalf of Adams County.

Right-of-Way Agreement

This Agreement is made and entered into by and between **Mt. Zion Lutheran Church, a Colorado Nonprofit Corporation**, whose address is **500 Drake Street, Denver, CO 80221** ("Owner"), and the County of Adams, State of Colorado, a body politic, who address is 4430 South Adams County Parkway, Brighton, Colorado, 80601 ("County") for the conveyance of rights-of-way on property located at **500 Drake Street, Denver, CO 80221** hereinafter (the "Property") for the Miscellaneous Concrete and ADA Ramps Project (the "Project"). The legal description and conveyance documents for the interests on said Property are set forth in Exhibit A attached hereto and incorporated herein by this reference.

The compensation agreed to by the Owner and the County for the acquisition of the Property interests described herein is **SEVEN HUNDRED NINETY-TWO AND NO/100 DOLLARS (\$792.00)**, including the performance of the terms of this Agreement, the sufficiency of which is hereby acknowledged. The parties further agree that the consideration shall consist of \$792.00 for the acquisition of road right-of-way. This consideration has been agreed upon and between the parties as the total just compensation due to the Owner and the consideration shall be given and accepted in full satisfaction of this Agreement.

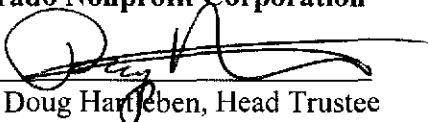
In consideration of the above premises and the mutual promise and covenants below, the Owner and the County agree to the following:

1. The Owner hereby warrants that the Owner is the sole Owner of the Property, that the Owner owns the Property in fee simple subject only to matters of record and that the Owner has the power to enter into this Agreement.
2. The Owner agrees to execute and deliver to the County the attached conveyance documents on the property upon tender by the County of a warrant (check) for the compensation agreed upon as soon as possible following the execution of this agreement.
3. Owner hereby irrevocably grants to the County possession and use of the property interests on the Property upon execution of this Agreement by the Owner and the County. This grant of possession shall remain in effect with respect to the Property until such time as the County obtains from the Owner the attached conveyance documents.
4. The County through its contractor shall assure that reasonable access shall be maintained to the Owner's property at all times for ingress and egress. If necessary, any full closure of access shall be coordinated between the contractor and the Owner and/or its agent.
5. The Owner has entered into this Agreement acknowledging that the County has the power of eminent domain and required the Property for a public purpose.

D.H. 9-28-2020

6. If the Owner fails to consummate this agreement for any reason, except the County's default, the County may at its option, enforce this agreement by bringing an action against the Owner for specific performance.
7. This Agreement contains all agreements, understandings and promises between the Owner and the County, relating to the Project and shall be deemed a contract binding upon the Owner and County and extending to the successors, heirs and assigns.
8. Owner shall be responsible for reporting proceeds of the sale to taxing authorities, including the submittal of Form 1099-S with the Internal Revenue Service, if applicable.
9. This Agreement has been entered into in the State of Colorado and shall be governed according to the laws thereof.

**Owner: Mt. Zion Lutheran Church,
a Colorado Nonprofit Corporation**

By: 
Doug Hartleben, Head Trustee

Date: Sept 28, 2020

Approved:

BOARD OF COUNTY COMMISSIONERS-COUNTY OF ADAMS, STATE OF COLORADO

Chair

Date

Approved as to Form:

County Attorney

EXHIBIT "A"

**DEED FROM MT. ZION LUTHERAN CHURCH
TO
THE COUNTY OF ADAMS, STATE OF COLORADO**

Legal Description

Being two (2) parcels of land and being a portion of Lot 1 of the MT. ZION SUBDIVISION SECOND FILING, a Subdivision recorded on September 30, 1974 in File No. 14 Map 182 Reception No. A057509 in the Office of the Clerk and Recorder of Adams County, Colorado, located in the Northwest Quarter of Section 34, Township 2 South, Range 68 West of the 6th Principal Meridian, being more particularly described as follows:

Parcel 1:

Beginning at the most Northerly Corner of said Lot 1, thence South 21°43'25" East, along the Northeast line of said Lot 1, a distance of 6.00 feet;

Thence leaving said Northeast line, North 85°29'33" West, a distance of 13.38 feet to the Northwest line of said Lot 1, said line being a curve concave Southeasterly and having a radius of 824.95 feet;

Thence along said curve to the right, a distance of 12.00 feet though a central angle of 00°50'00", said curve having a chord bearing of North 67°51'35" East and chord distance of 12.00 feet to the Point of Beginning.

Containing: 36 square feet, more or less.

Parcel 2:

Beginning at the most Westerly Corner of said Lot 1, thence North 52°45'14" East, along the Northwest line of said Lot 1, a distance of 6.00 feet;

Thence leaving said Northwest line, South 02°46'23" East, a distance of 12.09 feet to the Southwest line of said Lot 1;

Thence North 32°25'08" East, along the Southwest line of said Lot 1, a distance of 10.00 feet to the Point of Beginning.

Containing: 30 square feet, more or less.

Legal description prepared by:

Ian Cortez, PLS
Colorado Professional
Land Surveyor No. 32822
For and on behalf of:
Adams County, Colorado

Exhibit "B" attached and hereby made a part thereof.



A handwritten signature in black ink that reads "Ian Cortez".

ADAMS COUNTY PUBLIC WORKS
EXHIBIT "B"

LOCATED in the NW1/4 of SEC 34, T2S, R68W of the 6th P.M.,
COUNTY OF ADAMS, STATE OF COLORADO



Ian Cortez

DRAKE STREET

$\Delta = 00^{\circ}50'00''$
 $R = 824.95'$
 $L = 12.00'$
 $CHB = N67^{\circ}51'35''E$
 $CHL = 12.00'$

POINT OF BEGINNING
PARCEL 1

$N85^{\circ}29'33''W$
13.38'

AREA =
36 S.F. ±

$S21^{\circ}43'25''E$
6.00'

LINDA LANE

MT. ZION LUTHERAN CHURCH

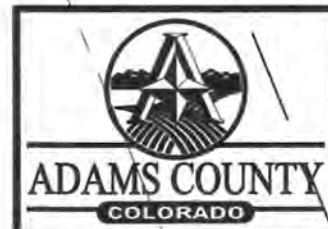
500 DRAKE STREET
PN: 1719-34-2-29-017

LOT 1
MT. ZION SUBDIVISION
SECOND FILING



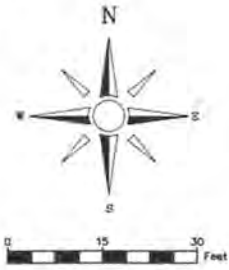
LINEAL UNITS=US SURVEY FEET

THIS EXHIBIT IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE USED AS SUCH. IT IS INTENDED ONLY TO DEPICT THE ATTACHED LEGAL DESCRIPTION.



ADAMS COUNTY PUBLIC WORKS
EXHIBIT "B"

LOCATED in the NW1/4 of SEC 34, T2S, R68W of the 6th P.M.,
COUNTY OF ADAMS, STATE OF COLORADO



LINEAL UNITS =
US SURVEY FEET

AREA = 30 S.F.,±

LINE TABLE		
LINE	BEARING	LENGTH
L1	N52°45'14"E	6.00'
L2	S02°46'23"E	12.09'
L3	N32°25'08"E	10.00'

MT. ZION LUTHERAN CHURCH

500 DRAKE STREET
PN: 1719-34-2-29-017

LOT 1
MT. ZION SUBDIVISION
SECOND FILING

POINT OF
BEGINNING
PARCEL 2



FERNANDO ROAD

DRAKE STREET



Ian Cortez



THIS EXHIBIT IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE USED AS SUCH. IT IS INTENDED ONLY TO DEPICT THE ATTACHED LEGAL DESCRIPTION.

THIS DAY: May 29, 2020 CREATED BY: cortez



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Resolution approving Right-of-Way Agreement between Adams County and Classic II Holdings, LLC, for property necessary for the East 58 th Avenue Improvements Project – East 58 th Avenue from Clarkson Street to York Street
FROM: Kristin Sullivan, AICP, Director of Public Works Brian Staley, P.E., PTOE, Deputy Director of Public Works
AGENCY/DEPARTMENT: Public Works
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners Approves the Right-of-Way Agreement for the acquisition of property needed for road right-of-way.

BACKGROUND: Adams County is in the process of acquiring right-of-way and temporary construction easements along East 58th Avenue for the East 58th Avenue Improvements Project – East 58th Avenue from Clarkson Street to York Street, that includes reconstructing the roadway, improving drainage, and installing curb, gutter, sidewalk and accessible curb ramps in compliance with the Americans with Disabilities Act. Attached is a copy of the right-of-way agreement between Adams County and Classic II Holdings, LLC, for acquisition of road right-of-way for \$69,000.00. The attached resolution allows the County to acquire ownership of the needed property for the use of the public and provide the necessary documents to close on the property.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Adams County Public Works, Office of the County Attorney and Adams County Board of County Commissioners.

ATTACHED DOCUMENTS:

Draft resolution
Right-of-Way Agreement

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 13
Cost Center: 3056

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<u> </u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:	9010	W30561603	\$2,000,000
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>\$2,000,000</u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING RIGHT-OF-WAY AGREEMENT BETWEEN
ADAMS COUNTY AND CLASSIC II HOLDINGS, LLC,
FOR PROPERTY NECESSARY FOR THE EAST 58TH AVENUE IMPROVEMENTS
PROJECT – EAST 58TH AVENUE FROM CLARKSON STREET TO YORK STREET

WHEREAS, Adams County is in the process of acquiring right-of-way and temporary construction easements along East 58th Avenue for the East 58th Avenue Improvements Project – East 58th Avenue from Clarkson Street to York Street (the “Project”); and,

WHEREAS, the Project includes installation and construction of storm sewer facilities, curb, gutter, sidewalk and accessible curb ramps for street improvements (the “Street Improvements”) for the use of the public within the right-of-way of East 58th Avenue; and,

WHEREAS, this right-of-way acquisition is a portion of 1299 E. 58th Avenue located in the Southwest Quarter of Section 11, Township 3 South, Range 68 West of the 6th Principal Meridian, County of Adams, State of Colorado, and owned by Classic II Holdings, LLC, (“Parcel 12”); and,

WHEREAS, Adams County requires ownership of Parcel 12 for construction of the Street Improvements; and,

WHEREAS, Classic II Holdings, LLC, is willing to sell Parcel 12 to Adams County under the terms and conditions of the attached Right-of-Way Agreement.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, County of Adams, State of Colorado, that the attached Right-of-Way Agreement between Adams County and Classic II Holdings, LLC, a copy of which is attached hereto and incorporated herein by this reference, be and hereby is approved.

BE IT FURTHER RESOLVED that the Chair of the Board of County Commissioners is hereby authorized to execute said Right-of-Way Agreement on behalf of Adams County.

RIGHT-OF-WAY AGREEMENT

This Agreement is made and entered into by and between **Classic II Holdings, LLC, a Colorado limited liability company**, whose address is 1299 East 58th Avenue, Denver, Colorado 80216 (“Owner”), and the County of Adams, State of Colorado, a body politic, whose address is 4430 South Adams County Parkway, Brighton, Colorado, 80601 (“County”) for the conveyance of rights-of-way on property located at 1299 East 58th Avenue, Denver, Colorado 80216, hereinafter (the “Property”) for the 58th Avenue Widening Project (the “Project”). The legal description and conveyance documents for the interests on said Property are set forth in **Exhibit A & B** attached hereto and incorporated herein by this reference.

The compensation agreed to by the Owner and the County for the acquisition of the Property interests described herein is **SIXTY NINE THOUSAND AND 00/100'S DOLLARS (\$69,000.00)** including the performance of the terms of this Agreement, the sufficiency of which is hereby acknowledged. The parties further agree that the consideration shall consist of \$20,840.00 for the conveyance of road right-of-way, \$44,945.00 for property owner improvements and \$3,215.00 for the temporary construction easement. This consideration has been agreed upon and between the parties as the total just compensation due to the Owner and the consideration shall be given and accepted in full satisfaction of this Agreement.

In consideration of the above premises and the mutual promises and covenants below, the Owner and the County agree to the following:

1. The Owner hereby warrants that the Owner is the sole Owner of the Property, that the Owner owns the Property in fee simple subject only to matters of record and that the Owner has the power to enter into this Agreement.
2. The Owner agrees to execute and delivery to the County the attached conveyance documents on the Property upon tender by the County of a warrant (check) for the compensation agreed upon as soon as possible following the execution of this agreement.
3. Owner hereby irrevocably grants to the County possession and use of the property interests on the Property upon execution of this Agreement by the Owner and the County. This grant of possession shall remain in effect with respect to the Property until such time as the County obtains from the Owner the attached conveyance documents.
4. The County through its contractor shall assure that reasonable access shall be maintained to the Owner's property at all times for ingress and egress. If necessary, any full closure of access shall be coordinated between the contractor and the Owner and/or its agent.
5. The Owner agrees to pay all 2019 taxes due in 2020 prior to tender by the County.
6. The County will remove approximately 3,604 sf of landscaping and 287 lf of drip line irrigation in the proposed Right of Way and Temporary Construction Easement areas. One blue spruce tree will also be removed, but the County has agreed to reimburse the owner the

expense of the landscaping, irrigation drip lines and tree as made part of this Agreement. The County will also remove 135 linear feet of the existing retaining wall and will reinstall 25 linear feet of retaining wall as a part of the Project and has compensated the landowner for the 110 linear feet that will be permanently removed as a part of this Agreement. The County has also compensated the owner to cap existing irrigation lines that may no longer be utilized.

7. The Owner has entered into this Agreement acknowledging that the County has the power of eminent domain and requires the Property for a public purpose.


8. If the Owner fails to consummate this agreement for any reason, except the County's default, the County may at its option, enforce this agreement by bringing an action against the Owner for specific performance.

9. This Agreement contains all agreements, understandings and promises between the Owner and the County, relating to the Project and shall be deemed a contract binding upon the Owner and County and extending to the successors, heirs and assigns.

10. Owner shall be responsible for reporting proceeds of the sale to taxing authorities, including the submittal of Form 1099-S with the Internal Revenue Service, if applicable.

11. This Agreement has been entered into in the State of Colorado and shall be governed according to the laws thereof.

Owner: Classic II Holdings, LLC, a Colorado limited liability company

By:  By: _____
Print Name: Debra Pagliasotti Print Name: Laurie L.H. Travis
Title: Manager Title: Manager
Date: 8-25-2020 Date: _____

Approved:

BOARD OF COUNTY COMMISSIONERS-COUNTY OF ADAMS, STATE OF COLORADO

Chair

Date

Approved as to Form:

County Attorney

expense of the landscaping, irrigation drip lines and tree as made part of this Agreement. The County will also remove 135 linear feet of the existing retaining wall and will reinstall 25 linear feet of retaining wall as a part of the Project and has compensated the landowner for the 110 linear feet that will be permanently removed as a part of this Agreement. The County has also compensated the owner to cap existing irrigation lines that may no longer be utilized.

7. The Owner has entered into this Agreement acknowledging that the County has the power of eminent domain and requires the Property for a public purpose.

8. If the Owner fails to consummate this agreement for any reason, except the County's default, the County may at its option, enforce this agreement by bringing an action against the Owner for specific performance.

9. This Agreement contains all agreements, understandings and promises between the Owner and the County, relating to the Project and shall be deemed a contract binding upon the Owner and County and extending to the successors, heirs and assigns.

10. Owner shall be responsible for reporting proceeds of the sale to taxing authorities, including the submittal of Form 1099-S with the Internal Revenue Service, if applicable.

11. This Agreement has been entered into in the State of Colorado and shall be governed according to the laws thereof.

Owner: Classic II Holdings, LLC, a Colorado limited liability company

By: _____	By: <u>Laurie L. Travis</u>
Print Name: <u>Debra Pagliasotti</u>	Print Name: <u>Laurie L.H. Travis</u>
Title: <u>Manager</u>	Title: <u>Manager</u>
Date: _____	Date: _____

Approved:

BOARD OF COUNTY COMMISSIONERS-COUNTY OF ADAMS, STATE OF COLORADO

Chair

Date

Approved as to Form:

County Attorney



Drexel, Barrell & Co.

JULY 12, 2019

EXHIBIT A

LEGAL DESCRIPTION PARCEL RW-12 RIGHT-OF-WAY DEDICATION

Engineers/Surveyors

Boulder
Colorado Springs
Greeley

1800 38th Street
Boulder, CO 80301-2620

303.442.4338
303.442.4373 Fax

A TRACT OF LAND BEING A PORTION OF LOT 15, WEAVER INDUSTRIAL PARK, RECORDED AT RECEPTION NO. 998294, LOCATED IN THE SW1/4 OF SECTION 11, T3S, R68W OF THE 6TH P.M., COUNTY OF ADAMS, STATE OF COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT 15, SAID POINT ALSO BEING ON THE NORTHERLY LINE OF EAST 58TH AVENUE, THENCE N00°06'24"W, 10.00 FEET; THENCE S89°54'29"E, 164.12 FEET TO THE EASTERLY LINE OF SAID LOT 15, SAID POINT ALSO BEING ON THE WESTERLY LINE OF MARION DRIVE; THENCE SOUTHWESTERLY 18.41 FEET ALONG A CURVE CONCAVE TO THE NORTHWEST AND ALONG THE SOUTHERLY LINE OF LOT 15 AND ALONG SAID NORTHERLY LINE OF EAST 58TH AVENUE, THE ARC OF SAID CURVE HAVING A RADIUS OF 15.00 FEET, A CENTRAL ANGLE OF 70°19'50" AND BEING SUBTENDED BY A CHORD THAT BEARS S54°43'41"W, 17.28 FEET; THENCE N89°54'29"W, 150.00 FEET ALONG SAID SOUTHERLY LINE OF LOT 15 AND ALONG SAID NORTHERLY LINE OF EAST 58TH AVENUE TO THE **POINT OF BEGINNING**.

CONTAINING 0.037 ACRES OR 1603 SQUARE FEET, MORE OR LESS.

LEGAL DESCRIPTION PREPARED BY:
MATHEW E. SELDERS
DREXEL, BARRELL & CO.
1800 38TH STREET
BOULDER, CO 80301
(303) 442-4338



**EXHIBIT
PARCEL RW-12
R.O.W. DEDICATION**

**NICKERSON ROBERT C
AND NICKERSON RENEE E**

MARION DRIVE

**LOT 15
WEAVER INDUSTRIAL PARK**

11

**N00°06'24"W 10.00'
S89°54'29"E 164.12'**

12

**N89°54'29"W 150.00'
EAST 58TH AVENUE**

**POINT OF BEGINNING
SW COR. OF LOT 15**

**L=18.41'
R=15.00'
Δ=70°19'50"
CH=S54°43'41"W
17.28'**

**CLASSIC II HOLDINGS LLC
1299 E 58TH AVE #A
AREA = 1603 SQ. FT. +/-,
0.037 ACRES +/-**



SCALE 1" = 30'

NOTES

1. THIS MAP IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT. IT IS INTENDED ONLY TO DEPICT THE ATTACHED DESCRIPTION
2. INFORMATION PERTAINING TO OWNERSHIP & RIGHT-OF-WAY IS BASED UPON PUBLIC INFORMATION AVAILABLE FROM THE ADAMS COUNTY ASSESSORS OFFICE, AND DOES NOT CONSTITUTE A TITLE SEARCH BY DREXEL, BARRELL & CO. TO DETERMINE OWNERSHIP & EASEMENTS OF RECORD.

IN ACCORDANCE WITH CRS 13-80-105;
NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.

Drexel, Barrell & Co. Engineers/Surveyors
1800 38TH STREET BOULDER, COLORADO 80301 (303) 442-4338
BOULDER, COLORADO (303) 442-4338
COLORADO SPRINGS, COLORADO (719) 260-0887
GREELEY, COLORADO (970) 351-0645



Revisions - Date	Date	Drawn By	Job No.
	7/5/19	MNF	20961-00
	Scale	Checked By	Drawing No.
	1" = 30'	MES	IN FILE

H:\20961-00\BTR\SURVEY\Drawings\R.O.W. TAKES AND CONSTRUCTION EASEMENTS\20961-00-R.O.W.-EXHIBITS-RW-12.dwg, 7/12/2019 8:57:49 AM



Drexel, Barrell & Co.

FEBRUARY 10, 2020

EXHIBIT B

LEGAL DESCRIPTION PARCEL TCE-12 TEMPORARY CONSTRUCTION EASEMENT

Engineers/Surveyors

Boulder
Colorado Springs
Greeley

1800 38th Street
Boulder, CO 80301-2620

303.442.4338
303.442.4373 Fax

A TRACT OF LAND BEING A PORTION OF LOT 15, WEAVER INDUSTRIAL PARK, RECORDED AT RECEPTION NO. 998294, LOCATED IN THE SW1/4 OF SECTION 11, T3S, R68W OF THE 6TH P.M., COUNTY OF ADAMS, STATE OF COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID LOT 15, SAID POINT ALSO BEING ON THE NORTHERLY LINE OF EAST 58TH AVENUE, THENCE S89°54'29"E, 150.00 FEET ALONG THE SOUTHERLY LINE OF SAID LOT 15 AND ALONG SAID NORTHERLY LINE OF EAST 58TH AVENUE; THENCE NORTHEASTERLY 18.41 FEET ALONG A CURVE CONCAVE TO THE NORTHWEST AND ALONG SAID SOUTHERLY LINE OF LOT 15 AND ALONG SAID NORTHERLY LINE OF EAST 58TH AVENUE, THE ARC OF SAID CURVE HAVING A RADIUS OF 15.00 FEET, A CENTRAL ANGLE OF 70°19'50" AND BEING SUBTENDED BY A CHORD THAT BEARS N54°43'41"E, 17.28 FEET TO THE **TRUE POINT OF BEGINNING;**

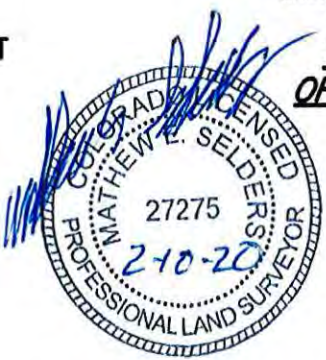
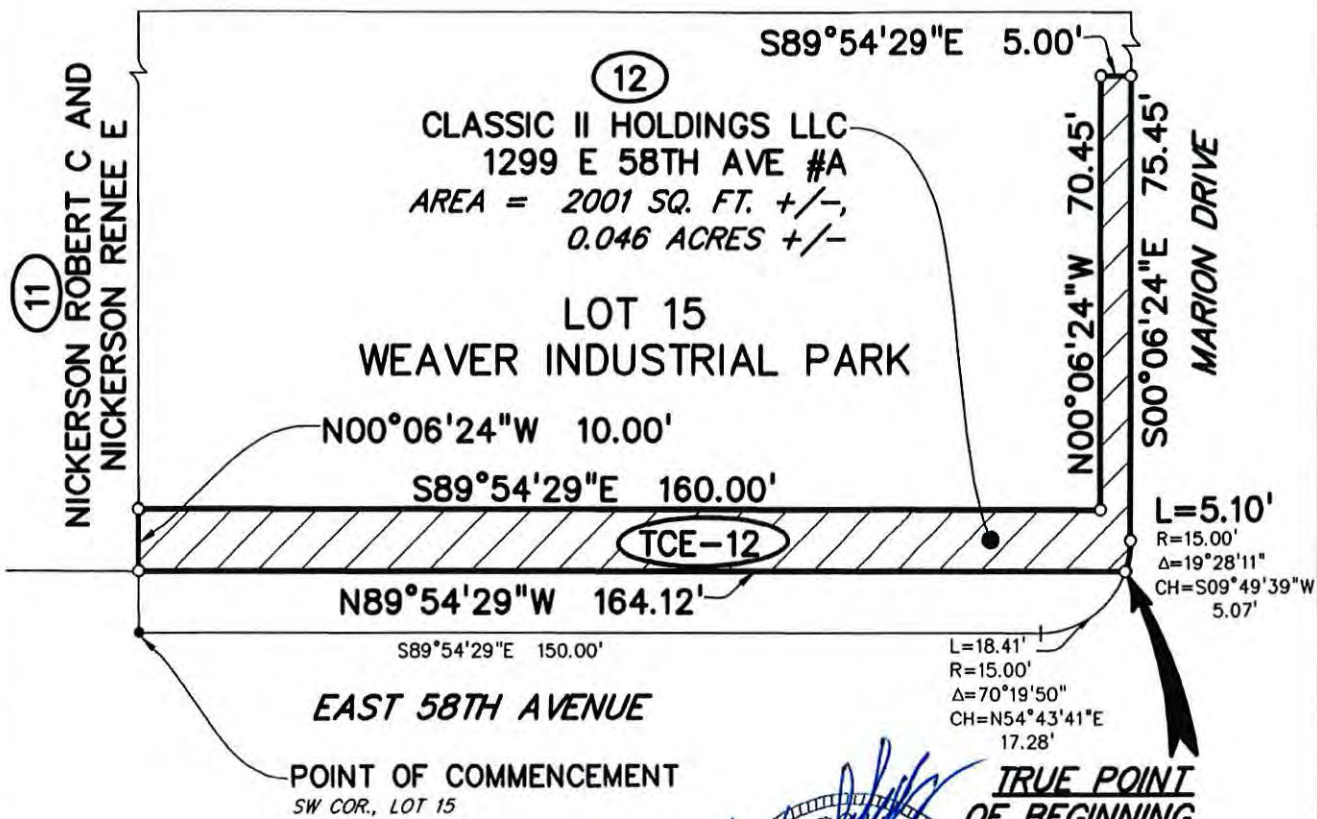
THENCE N89°54'29"W, 164.12 FEET TO THE WESTERLY LINE OF SAID LOT 15; THENCE N00°06'24"W, 10.00 FEET ALONG SAID WESTERLY LINE OF LOT 15; THENCE S89°54'29"E, 160.00 FEET; THENCE N00°06'24"W, 70.45 FEET; THENCE S89°54'29"E, 5.00 FEET TO THE EASTERLY LINE OF SAID LOT 15 AND THE WESTERLY LINE OF MARION DRIVE; THENCE S00°06'24"E, 75.45 FEET ALONG SAID EASTERLY LINE OF LOT 15 AND ALONG SAID WESTERLY LINE OF MARION DRIVE; THENCE SOUTHERLY 5.10 FEET ALONG A CURVE CONCAVE TO THE WEST AND ALONG SAID EASTERLY LINE OF LOT 15 AND ALONG SAID WESTERLY LINE OF MARION DRIVE, THE ARC OF SAID CURVE HAVING A RADIUS OF 15.00 FEET, A CENTRAL ANGLE OF 19°28'11" AND BEING SUBTENDED BY A CHORD THAT BEARS S09°49'39"W, 5.07 FEET TO THE **TRUE POINT OF BEGINNING.**

CONTAINING 0.046 ACRES OR 2001 SQUARE FEET, MORE OR LESS.

LEGAL DESCRIPTION PREPARED BY:
MATHEW E. SELDERS
DREXEL, BARRELL & CO.
1800 38TH STREET
BOULDER, CO 80301
(303) 442-4338



EXHIBIT PARCEL TCE-12 TEMPORARY CONSTRUCTION EASEMENT



SCALE 1" = 30'

NOTES

1. THIS MAP IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT. IT IS INTENDED ONLY TO DEPICT THE ATTACHED DESCRIPTION
2. INFORMATION PERTAINING TO OWNERSHIP & RIGHT-OF-WAY IS BASED UPON PUBLIC INFORMATION AVAILABLE FROM THE ADAMS COUNTY ASSESSORS OFFICE, AND DOES NOT CONSTITUTE A TITLE SEARCH BY DREXEL, BARRELL & CO. TO DETERMINE OWNERSHIP & EASEMENTS OF RECORD.

IN ACCORDANCE WITH CRS 13-80-105;
NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.

Drexel, Barrell & Co. Engineers/Surveyors
 1800 38TH STREET BOULDER, COLORADO 80301 (303) 442-4338
 BOULDER, COLORADO (303) 442-4338
 COLORADO SPRINGS, COLORADO (719) 280-0887
 GREELEY, COLORADO (970) 351-0646



Revisions - Date	Date	Drawn By	Job No.
	2-10-20	MNF/VJD	20961-00
	Scale	Checked By	Drawing No.
	1" = 30'	MES	IN FILE



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Amendment 2 to an Intergovernmental Agreement with Mapleton Public Schools for distribution of CARES funds.
FROM: Alisha Reis, Deputy County Manager
AGENCY/DEPARTMENT: County Manager's Office/County Attorney's Office/Budget & Finance Department
HEARD AT STUDY SESSION ON: October 20, 2020
AUTHORIZATION TO MOVE FORWARD: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves Amendment 2 to the IGA to distribute CARES funds to Mapleton Public Schools.

BACKGROUND:

Attached is Amendment 2 to an intergovernmental agreement for the Board's consideration to distribute a portion of funding allocated to the County by the Coronavirus Aid, Relief, and Economic Security Act (CARES). The County was allocated about \$90.3 million, and the Board of County Commissioners previously agreed to funding to school districts serving Adams County. Subsequently, the Board awarded additional funding to several school districts who expressed a need for additional support for items such as COVID-19 testing, face shields and other personal protective equipment (PPE), and support for remote and pod-based educational instruction. That additional award is formalized in the attached amendment, this one particular to early childhood education at Mapleton schools.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

County Manager's Office
County Attorney's Office
Budget & Finance Department

ATTACHED DOCUMENTS:

Resolution
Intergovernmental Agreement Amendment

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<u> </u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			734,467
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>734,467</u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

RESOLUTION APPROVING AMENDMENT 2 TO AN INTERGOVERNMENTAL AGREEMENT BETWEEN ADAMS COUNTY AND MAPLETON PUBLIC SCHOOLS REGARDING DISBURSEMENT OF CORONAVIRUS AID, RELIEF AND ECONOMIC SECURITY ACT FUNDS

WHEREAS, Section 18(2) of Article XIV of the Colorado Constitution and Sections 29-1-201, *et seq.* and 29-20-105 of the Colorado Revised Statutes authorize and encourage governments to cooperate by contracting with one another for their mutual benefit; and,

WHEREAS, the COVID-19 pandemic has created myriad economic distress and unanticipated costs in American society to individuals and families, to businesses, and to the state and local governments addressing the pandemic's effects; and,

WHEREAS, Congress recently enacted the Coronavirus Aid, Relief, and Economic Security Act, P.L. 116-136 ("CARES") to provide relief funds to individuals, businesses, and state and local governments; and,

WHEREAS, CARES allows Adams County (the "County") to directly receive funds for costs incurred in fighting and ameliorating the effects of COVID-19; and,

WHEREAS, pursuant to the terms of this Amendment 2 to the Intergovernmental Agreement, the County wishes to disburse to Mapleton Public Schools (the "District"), and the District wishes to receive from the County, CARES funds for COVID-19 related costs incurred by the District.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, County of Adams, State of Colorado, that Amendment 2 to the Intergovernmental Agreement between Adams County and Mapleton Public Schools Regarding Disbursement of Coronavirus Aid, Relief, and Economic Security Act Funds, is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to execute said Amendment 2 to the Intergovernmental Agreement on behalf of Adams County.

**AMENDMENT 2 TO INTERGOVERNMENTAL AGREEMENT
BETWEEN ADAMS COUNTY AND MAPLETON PUBLIC SCHOOLS
REGARDING DISBURSEMENT OF CORONAVIRUS AID, RELIEF AND
ECONOMIC SECURITY ACT FUNDS**

THIS AMENDMENT 2 is made and entered into this _____ day of _____, 2020, by and between Adams County, Colorado, located at 4430 S. Adams County Parkway, Brighton, Colorado, 80601 ("County") and Mapleton Public Schools ("District"), located at 7350 N. Broadway, Denver, CO 80221.

RECITALS

A. WHEREAS, by means of an Intergovernmental Agreement between the parties regarding disbursement of Coronavirus Aid, Relief and Economic Security Act ("CARES") funds dated July 28, 2020 ("IGA") the parties set forth the terms and conditions for County to disburse CARES funds to District for use paying costs for and ameliorating effects of the COVID-19 pandemic; and,

B. WHEREAS, the parties entered into an Amendment 1 on September 25, 2020 to increase the amount of disbursed funds beyond what was originally set forth in the IGA; and,

C. WHEREAS, the parties now wish to further increase the amount of the disbursed funds as set forth in this Amendment 2.

NOW, therefore, in consideration of the promises, conditions and covenants contained herein, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. The amount of CARES funds to be disbursed by County to District shall be increased from \$4,153,049.35 to a total \$4,887,516.35 (an increase in funds of \$734,467). The additional funds shall be paid within 14 days of the date this Amendment 2 is fully executed and invoice submitted to the County.
2. Except as modified by this Amendment 2, the terms of the IGA shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused their names to be affixed hereto.

BOARD OF COUNTY COMMISSIONERS
ADAMS COUNTY, COLORADO

Chair

Date

ATTEST:
JOSH ZYGIELBAUM
CLERK AND RECORDER

APPROVED AS TO FORM:

Adams County Attorney's Office

Deputy Clerk

Mapleton Public Schools

Charlotte Carico

10.22.2020

Date



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Lease Extension – Westminster Head Start Facility
FROM: Nicci Beauprez, Project Manager – Land & Assets
AGENCY/DEPARTMENT: Facilities & Fleet Management
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves Lease Agreement between Westminster Public Schools and Adams County for Head Start facilities at 8401 Circle Drive.

BACKGROUND:

Adams County currently leases space at 8401 Circle Drive, Westminster, CO for its Head Start Facilities including Classrooms from Westminster Public Schools District 50. This space continues to offer services for residents and their children in the Westminster and surrounding areas and has done so since 2004. Heads Start wishes to continue to its operations in this space. Westminster Public Schools wishes to continue to offer a Lease to Adams County for the leased space according to the terms and conditions in the attached Lease Agreement through August 31, 2023 at a monthly rental rate of \$2,812.00 September through May.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Human Services, Head Start, County Attorney's office, Facilities & Fleet Management

ATTACHED DOCUMENTS:

Resolution
Lease Agreement

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 31
Cost Center: Various

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<u> </u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:	7000.9999		25,308
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>25,308</u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING LEASE AGREEMENT
BETWEEN WESTMINSTER PUBLIC SCHOOLS AND ADAMS COUNTY
FOR HEAD START PROGRAM FACILITIES AT 8401 CIRCLE DRIVE,
WESTMINSTER, COLORADO

Resolution 20-

WHEREAS, Adams County currently leases space at 8401 Circle Drive, Westminster, CO 80031 (the "Property"), for use as facilities, including classrooms, for one of its Head Start Program facilities; and,

WHEREAS, Westminster Public Schools wishes to continue to lease to Adams County according the terms and conditions of the attached Lease Agreement, and Adams County wishes to continue leasing the Property through August 31, 2023, pursuant to the terms and conditions of the attached Lease Agreement, for a monthly gross rate of \$2,812.00; and,

WHEREAS, Adams County believes the proposed use of the leased space at the Property is a legitimate governmental use as it has been leased since 2004 for the same purpose and this will enhance the welfare of residents of Westminster and surrounding areas within Adams County.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, the Lease Agreement between Westminster Public Schools and Adams County for Head Start Program Facilities including classrooms at 8401 Circle Drive, a copy of which is attached hereto, be and is hereby approved.

BE IT FURTHER RESOLVED that the Chair of the Board of County Commissioners is authorized to execute said Lease Agreement on behalf of Adams County.

LEASE AGREEMENT

THIS AGREEMENT is made the 13 day of October, 2020, between Westminster Public Schools whose principal offices are located at 6933 Raleigh Street, Westminster, Colorado 80030, the LESSOR, and Adams County, Colorado whose address is 4430 South Adams County Parkway, Brighton, CO 80601 for use by its Head Start Program, whose address is 11860 Pecos Street, Westminster, CO 80234, the LESSEE.

WITNESSETH, that in consideration of the payment of the rent and the keeping and performance by the LESSEE of the covenants and agreements set forth herein, the LESSOR hereby leases unto the LESSEE the following described premises situated in the state of Colorado, County of Adams:

Shaw Primary School located at 8401 Circle Drive, Westminster, Colorado 80031, and use of the playground area between 7:30 am and 4:30 pm each weekday throughout the term of the lease.

To have and to hold the same from 12:00 p.m. on September 1, 2020 until 12:00 p.m. on August 31, 2023 and for rental fees as set forth in Exhibit A, which is hereby incorporated into this Agreement. Rental fees shall be paid in monthly installments with payments to begin with the first payment in September 2020 and the last payment in May 2023. Rent shall be paid in advance on the first day of each calendar month during said term at the office of the LESSOR at 6933 Raleigh Street, Westminster, Colorado 80030, or at such other place as the LESSOR may from time to time designate in writing.

1. In consideration of the lease of the premises, the LESSEE covenants and agrees as follows:

a. To pay the rent for the premises as provided herein. The parties hereto expressly recognize and agree that the LESSOR is to be paid with funds received by the LESSEE from the U.S. Department of Health and Human Services through the Administration for Children and Families. This Agreement shall not constitute a multi-year fiscal obligation. This Agreement is subject to annual appropriation by Lessee. In the event Lessee fails to appropriate funds for this Agreement for any given fiscal year, Lessee may terminate this Agreement upon 30 days written notice. The LESSEE is responsible for all rental amounts due through the date of termination as specified in the Agreement. The LESSEE shall be required to vacate the premises on or before the effective termination date;

b. At the expiration or termination of this Agreement, to surrender and deliver up the premises in as good order and condition as when the same were entered upon, loss by fire, inevitable accident or ordinary wear excepted;

c. To sublet no part of the premises, nor assign this Agreement or any interest therein, without first obtaining LESSOR's written consent;

d. To use the premises for no purpose prohibited by the laws, rules, regulations or ordinances of the United States, the State of Colorado, or any county or local unit of government having jurisdiction over the premises;

f. To the extent allowed by the law, to indemnify and hold harmless the LESSOR from and against any claim for personal injury or property damage resulting from any act or

omission of LESSEE, its directors, officers, employees or agents. LESSEE represents that it is a division of Adams County and is covered under the Adams County Self-Insurance Program and that Adams County maintains a self-insurance program with respect to the leased premises, liability will not exceed \$150,000.00 per claimant and \$600,000.00 each occurrence, and LESSEE will provide the LESSOR with a Certificate of Self-Insurance as evidence of coverage;

g. Not to permit the premises to be used for any purpose which would render the insurance thereon ineffective or the insurance risk more hazardous;

h. Not to make any alterations or modification in or upon the leased premises, including the installation or removal of attached fixtures, without first obtaining the written consent of LESSOR's Superintendent of Schools or such person as shall be appointed by the Superintendent of Schools as his/her designee. Any such alterations or modifications shall be done at LESSEE's expense, which expenses shall be the sole financial responsibility of LESSEE. If any such alterations or modifications are made, LESSEE shall be obligated to restore the leased premises to their original condition as entered upon, if requested to do so in writing by LESSOR;

i. To allow LESSOR at any reasonable hour of the day to enter into and go through the premises and to allow the LESSOR periodic inspections of the entire premises, at least once a month or more often if LESSOR so requires;

j. To reimburse LESSOR for any expense incurred by it in repairing any damage to the premises caused by the LESSEE, its directors, officers, and employees or agents or any person on the premises for any purpose of LESSEE.

2. LESSOR and LESSEE further agree that:

a. LESSOR and LESSEE shall mutually inspect the premises prior to occupancy by LESSEE for the purpose of determining the existing condition of the structure, including the electrical and mechanical equipment. An inspection report shall be prepared, dated and signed by representatives of LESSEE and LESSOR indicating any preconditions for which LESSEE shall not be held liable under paragraph 2(b) of this Agreement. The inspection report shall be attached hereto and shall be considered part of the Agreement;

b. LESSEE shall assume all liability for operations costs within the building, including repair and maintenance of the building structure. The liability for operations costs shall not apply to the roof and major structural items, repairs and maintenance of the mechanical and electrical systems within the leased areas, or repair and maintenance of any kind incident to the operation and integrity of the building. Daily operations and maintenance of a custodial nature shall comply with maintenance standards as practiced by LESSOR in buildings owned and operated by it, to the extent that such standards do not contradict LESSEE permitted use, and shall be subject to periodic inspections, as determined by LESSOR to confirm compliance with this paragraph;

c. LESSOR shall be responsible for snow removal of parking lots, trash pickup, repair of damaged concrete or asphalt, snow removal and cleaning of walkways, and maintenance of exterior lighting;

d. If the premises become so damaged by fire, flood, act of God or any other casualty not caused by the LESSEE so as to render the premises as non-leasable, the LESSEE may terminate the Agreement without further obligation, unless the damage is repaired by LESSOR within thirty days in which case the Agreement shall continue under the existing terms and conditions. During the repair time and until the premises are rendered fully usable again, all rent shall be abated in an amount proportional to the percent of the premises rendered unusable for the purpose for which the LESSEE leased the premises;

e. LESSEE shall be responsible for payment of LESSEE's telephone service. LESSOR shall be responsible for natural gas, electric and water/sewer charges;

f. No waiver, expressed or implied to any breach of any one or more of the covenants herein shall be deemed or taken to be a waiver of any succeeding or other breach;

g. If, after the expiration of the Agreement, the LESSEE shall remain in possession of the premises and continue to pay rent without written agreement as to such possession, the LESSEE shall be regarded as a tenant from month-to-month at a monthly rent, payable in advance equal to the last monthly installment hereunder, and subject to all of the terms and conditions of this Agreement;

h. If the premises are left vacant, and any part of the rent unpaid, LESSOR may, at its option, either retake possession of the premises, terminating the Agreement and LESSEE's obligations thereunder, except that LESSEE shall be responsible for payment of any rent that is owing for the remaining term of the Agreement and the costs of any damages to the premises, or LESSOR may re-rent the premises to another tenant, which will reasonably mitigate LESSOR's damages under the circumstances. In its efforts to re-rent, LESSOR may make such changes and repairs as may be required. LESSEE shall be liable for the balance of the rent herein reserved until the expiration of the term of this Agreement;

i. If the rent above is reserved, or any part thereof, shall be in arrears, or if default shall be made of any of the covenants or agreements set forth in this Agreement to be kept by LESSEE, it shall be lawful upon ten days written notice for monetary matters and thirty days written notice for non-monetary matters for LESSOR to declare the term ended and to repossess the premises;

j. At the expiration of the term of this Agreement, whether by passage of time or by act of LESSOR taken pursuant to the terms hereof, LESSEE shall surrender and deliver up the premises peaceably to the LESSOR, and if LESSEE shall remain in possession after termination of this lease and demand for full possession by LESSOR, LESSEE shall be deemed guilty of a forcible detainer of the premises under the statute, and shall be subject to eviction and removal in accordance with state law;

k. If LESSEE becomes insolvent or is declared bankrupt, LESSOR may declare this Agreement ended and all right of LESSEE under this Agreement shall immediately terminate;

l. LESSOR will provide LESSEE with a reasonable number of keys to those portions of the premises leased to LESSEE and to common area doors to the Shaw Primary School facility;

m. LESSEE shall not re-key or change or add locks to any such interior or exterior doors without LESSOR's written consent and unless LESSOR is provided with keys to such doors or locks.

3. If LESSOR determines that it requires the use of the premises for school purposes, it may provide written notice to LESSEE, on or about April 15th of each year, that the Agreement shall be terminated, and LESSEE shall vacate the premises within ninety days from the receipt of such notice. Any such determination by LESSOR shall be made at LESSOR's sole discretion. Notice of termination pursuant to this paragraph shall not relieve either of the parties from their duties and obligation under this Agreement during the ninety days following such notice and until such time as LESSEE has vacated the premises.

IF LESSEE decides to re-locate the Head Start program to another location, LESSEE may terminate this contract upon 90 days' notice to LESSOR.

4. LESSOR makes no representations whatsoever concerning the suitability of the current zoning of the premises for the use intended by LESSEE.

5. All notices provided for in this Agreement and all written communications between the parties concerning the premises shall be mailed or hand-delivered to the addresses first set forth above unless written notice of a change in the address of either party is provided to the other party.

IN WITNESS WHEREOF, the parties have executed this Agreement 1st day of September, 2020


LESSOR:

Westminster Public Schools



Ryan McCoy, Board President

ATTEST:



Kenneth Ciancio, Board Secretary

LESSEE:

Adams County Board of County Commissioners

Adams County Attorney's Office

Chair

Approved as to form

EXHIBIT A
Rent Payment Schedule

2020-2021:

September 2020 through May 2021 – \$ \$2,812.00/month payable on or before the first day of the month beginning on September 1, 2020.

2021-2022:

September 2021 through May 2022 - \$2,812.00/months payable on or before the first day of the month beginning on September 1, 2021

2022-2023:

September 2022 through May 2023—\$2,812.00/month payable on or before the first day of the month beginning on September 1, 2022.



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Facility Usage Agreement (WaterWorld Testing Site)
FROM: Nicci Beauprez, Project Manager – Land & Assets
AGENCY/DEPARTMENT: Facilities & Fleet Management
HEARD AT STUDY SESSION ON: 8/4/2020
AUTHORIZATION TO MOVE FORWARD: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves the Facility Usage Agreement – Amendment 1 to support the public COVID-19 testing site at WaterWorld.

BACKGROUND:

On August 11, 2020 Adams County approved a Facility Usage agreement with Hyland Hills Park & Recreations District for the WaterWorld COVID Test Site. Attached is an Amendment to the Facility Usage Agreement for the Board's consideration for rental of a portion of WaterWorld parking lots to locate a public site for COVID-19 testing. The project is a partnership with the Colorado Department of Public Health and Environment, which is contracting the testing agency, and will provide all personnel, materials, supplies and oversight for testing. The County will provide the leased location, traffic control/security, and other support logistics, paid for with a portion of its allocation of Coronavirus Aid, Relief, and Economic Security Act (CARES) funds.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

County Manager's Office, County Attorney's Office, Facilities & Fleet Management

ATTACHED DOCUMENTS:

Resolution

Hyland Hills Facility and Recreation Facility Usage Agreement – Amendment 1

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 1
Cost Center: 9263

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<u> </u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:	7915	92632048	\$10,000.00
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>\$10,000.00</u>

New FTEs requested: **YES** **NO**

Future Amendment Needed: **YES** **NO**

Additional Note:

Original agreement was \$20,000 for August and September, October is offered at no charge, November and December is \$10,000 totaling \$30,000 for August through December.

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING HYLAND HILLS FACILITY AND
RECREATION DISTRICT FACILITY USAGE AGREEMENT –
AMENDMENT 1 BETWEEN ADAMS COUNTY AND HYLAND HILLS
PARK AND RECREATION DISTRICT
FOR A PUBLIC COVID-19 TESTING SITE

Resolution 20-

WHEREAS, Adams County has been asked to assist the Colorado Department of Public Health and Environment to expand testing locations of the current COVID-19 pandemic; and,

WHEREAS, Hyland Hills Park and Recreation District has a sufficient site to provide such a location at its WaterWorld facility, located at 8801 North Pecos Street, Federal Heights, Colorado; and,

WHEREAS, Adams County would like to use this location as a testing location; and,

WHEREAS, Hyland Hills Park and Recreation District would like to offer use of its property for the purpose of a COVID-19 testing site to Adams County under the terms and conditions of the attached Hyland Hills Facility and Recreation District Facility Usage Agreement – Amendment 1.

NOW THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado that the attached Hyland Hills Facility and Recreation District Facility Usage Agreement – Amendment 1, is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to execute said Facility Usage Agreement on behalf of Adams County.



HYLAND HILLS FACILITY AND RECREATION DISTRICT FACILITY USAGE AGREEMENT – Amendment 1

This Amendment 1 is made and entered into this ____ day of _____, 2020 by and between HYLAND HILLS PARK AND RECREATION DISTRICT, a quasi-municipal corporation and subdivision of the State of Colorado, hereinafter referred to as “**Hyland Hills**”, and “ADAMS COUNTY, COLORADO” hereinafter referred to as “**User**”.

WHEREAS, by means of Hyland Hills Facility and Recreation District Facility Usage Agreement dated August 6, 2021 and executed on August 11, 2020 by User, the parties allowed User to run a COVID-19 testing facility on a portion of Hyland Hills’ property located at 8801 North Pecos Street; and,

WHEREAS, by means of this Amendment 1 Hyland Hills and User wish to extend and modify the terms of the Facility Usage Agreement and as noted herein.

BRING THIS AGREEMENT WITH YOU ON THE RENTAL DATE.

In consideration for the mutual obligations and responsibilities set forth below, **Hyland Hills** and **User** agree as follows:

1. **Hyland Hills** grants to **User** the right to utilize a portion of the Water World facility lot (“facility”) located at 8801 North Pecos Street, Federal Heights, Colorado and is more particularly identified in Exhibit B to include Lots B and C as mentioned herein, attached hereto:

Date(s): Continuing for the period of October 1, 2020 through December 31, 2020.

Time: Daily, Sunday through Saturday

Purpose: COVID-19 or associated testing facility

Deposit: None

Special Requests that shall supersede anything contrary herein:

- a. For the initial period, **Hyland Hills** shall provide electrical power which said installation shall be billed at the end of each month of the rental term as additional rent. Installation of said power shall be done by **Hyland Hills** and billed by

- Hyland Hills** at cost for hours and materials and permitting fees. For reimbursement **Hyland Hills** shall submit an invoice inclusive of all charges and the associated required removal within 30 days of commencement of this Agreement. Costs are estimated (based on location **User** has currently indicated) to be \$1,600 for materials and labor. Such initial period electrical power has been completed and all costs have been invoiced by Hyland Hills and paid by User. If at any time additional power service is needed, and **Hyland Hills** is willing to install, such service will be billed similarly at cost of materials and labor. Permitting costs and obligation shall be borne to the party performing the work.
- b. **User** timely vacated Lots D, E, and F as well as associated ring road areas as previously required by the August 6, 2020 Facility Usage Agreement.
 - c. All Water World parking lots are under an existing executed contract beginning on October 1st, 2020 with another party Christmas in Color (Other Party). Lots B and C, along with one or both parking lot entrances to 90th Avenue have been made available for use by the **User** and shall be shared with the Other Party. Should any or all of these lots be available for use by the User, as potentially depicted in Exhibit B, such use during October was offered at no additional charge to the **User**, however utilities installation billing shall still apply, if any. Traffic control must be coordinated with those plans of **Hyland Hills**, **User**, and Other Party and authorities having jurisdiction.
 - d. ~~Beginning in mid-September, the October 1st contracted vendor has been pre-authorized to store one semi-trailer in the parking lot. This is typically stored in Lot D, E or F. **Hyland Hills** will work with **User** to determine a mutually agreeable location ahead of delivery in mid-September.~~
 - e. The parties agree there is a hard termination date of 12/31/2020.
 - f. Temporary self-ballasted signage is permissible so long as it does not violate any ordinance, law, regulation of authorities having jurisdiction over such or the site.
 - g. In the event that staking is required for modular spaces or otherwise, **User** shall be responsible for repairing the surface to similar condition to pre-staking. Repairs shall be subject to the acceptance and approval of **Hyland Hills**. Repair plans shall first be submitted to **Hyland Hills** for review. **Hyland Hills** shall have 14 days to respond with an objection. In the absence of an objection, approval may be assumed and User may proceed with repair. **Hyland Hills** shall provide User with its requirements of parking lot repairs within 30 days of Agreement Commencement. In the event that User's repair requires associated improvements, User shall not be liable for costs of associated repairs. User shall obtain 3 estimates of its repair and not the associated repair. The parties agree to payment in full for this consideration as an average of those estimates received. **Hyland Hills** shall also submit 3 estimates, and those shall be included in the equation for averaging.

- h. The parties understand that this agreement allows **User** usage of the premises by other professional organizations. Some of which are a part of the **User's** organization and others that may be external such as a testing organization.
- i. **User** is relying on CARES funds for rent payment. If the program becomes unavailable, **User** may cancel this agreement at any time by giving notice to HH. It is anticipated for CARES funds to expire 12/31/2020.
- j. **Hyland Hills** access has been identified in the attached Exhibit C. **Hyland Hills** will make reasonable efforts to restrict its needs to the provided route. **User** shall keep the identified route clear and available for **Hyland Hills** at all times for purposes including but not limited to: access, maintenance, mowing of right of ways and parking lot islands, repairs, deliveries, etc. Changes shall be mutually agreed to in writing by the Parties.
- k. **User** intends to move and re-install a modular temporary office unit of approximately fifty (50) feet and similar storage unit, depending on availability, on the premises. **User** shall remove these improvements in accordance with this agreement and shall be responsible for repairs associated including the power feed costs outlined in Special Requests of this Agreement.
- l. If snow removal is needed, **User** shall provide such as noted in Exhibit D for parking lots B and C, and walkways associated to its operations, and shared access as noted therein. **User** shall be responsible for any damage and repairs associated to its snow removal.
- m. Fire lanes shall be kept clear at all times regardless of whether the Park is open or operational per local authorities having jurisdiction.

2. While **Hyland Hills** will make every reasonable effort to keep the facility open during the scheduled use time, **Hyland Hills** reserves the right to close the facility at any time and for any reason. If the facility is closed during any scheduled use by **User**, **User** may receive a prorated refund of monies paid for the unused scheduled time or may re-schedule the usage of the facility for the unused scheduled time.

3. Upon signing this Amendment 1, **User** shall pay to **Hyland Hills**, for the use of the facility \$10,000 as follows: \$5,000 for November 2020 and \$5,000 for December 2020, due upon receipt of an invoice from Hyland Hills.

4. The parties hereto understand that once this Agreement is entered into, the date and time of usage of the facility by **User** is reserved, and no refund of any of the rental shall be made to **User** except as set forth in paragraph 2, above.

5. **User**, at any time and only with the consent of **Hyland Hills**, may schedule additional hours, over and above those hours scheduled, and shall immediately pay any additional rental fees resulting there from. The Other Party has exclusive use of the secondary exit and associated driveway (“T” Intersection) areas at 90th Avenue beginning at dusk daily. If **User** wishes to extend testing hours beyond dusk, **User** must coordinate the exit traffic flow with **Hyland Hills** and Other Party. This may include **User** providing traffic control personnel to allow traffic from both testing and the external vendor to share that exit without inhibiting or backing up traffic for either event. Exiting traffic of the Other Party takes precedence over **User**’s exiting traffic.

6. **User** shall abide by and conform to all applicable Federal, State and local statutes and ordinances and the rules and regulations established by **Hyland Hills** and any instruction given by **Hyland Hills**.

7. **Hyland Hills** rules and regulations include, but are not limited to, the following:

- Smoking is prohibited in all areas of the facility.
- **No alcoholic** beverages are allowed at the facility unless specifically approved in writing by the Executive Director.
- **This agreement covers use of the facility only.**
- Children with your group must be supervised at all times.
- All trash must be picked up and removed from the site by **User** at the end of each day and the facility left as found.
- Do not use or move any equipment without the consent of Hyland Hills.
- Do not drive stakes or otherwise damage the parking lot surface unless pre-authorized. Painting or similar marking of the parking lot surface is prohibited.
- **User** shall surrender the facility, parking lot surfaces and all equipment contained therein to **Hyland Hills** at the end of the scheduled usage time, in good and clean condition.
- Any items brought on property by the **User** during the agreement period must be removed by the end of the last day of the scheduled usage time.
- Access to the parking lot and associated service areas from Pecos Street and 90th Avenue, access to the Administration Offices and access to fire lanes must be maintained at all times.
- Portable restrooms must be picked up by the next business day, post-termination, provided access allows for such. Restroom should be properly maintained and secured to prevent tipping.
- **User** is responsible for obtaining any permits that may be required by the City of Federal Heights.
- **User** is responsible for maintaining proper traffic flow and impacts to surface streets adjoining Hyland Hills parking lots.

8. If the facility, or any improvements thereat, or any equipment contained therein, shall be damaged by **User**, its officers, agents, representatives, employees, guests or invitees, **User** shall pay to **Hyland Hills**, upon demand, such sum as shall be necessary to restore the facility or restore or replace the damaged equipment.

9. In further consideration of **Hyland Hills**' granting **User** permission to utilize the facility, as more fully stated herein:

User agrees to be responsible for any damages resulting from the death or injury to persons or the destruction of property or any other damage caused by User, User's officers, agents representatives, employees, guests or invitees, sustained in connection with or arising from the utilization of the facility by User, specifically including, without otherwise limiting any obligation hereunder, attorneys fees and cost incurred in the defense of any claim arising from such utilization of the facility by User and attorneys fees and costs incurred in enforcing User's obligations hereunder. User shall be solely responsible for the costs of the testing program.

10. In the event of any default by **User** in any of the terms of this Agreement, including the nonpayment of any monies due under the terms of this Agreement, **User** agrees to pay the cost, including reasonable attorney fees, incurred by **Hyland Hills** as result of said default, including but not limited to costs of collections and/or eviction from the subject premises.

11. This Agreement shall not be assigned by **User** nor shall **User** utilize the premises for any purpose other than herein stated.

12. The individual or individuals executing this Agreement on behalf of the **User** represent(s) to **Hyland Hills** that he/she or each of them has the power and authority to execute this agreement on behalf of the **User** and to bind the **User** to all of the terms and conditions set forth in the Agreement.

13. **User** and **Hyland Hills** agree that all terms and conditions of the Agreement shall be binding upon the parties, their representatives, officers, agents, guests and invitees and cannot be waived by any oral representations or promises unless the same be in writing and mutually signed by the parties who execute this Agreement.

14. **User** understands that it is not the agent or representative of **Hyland Hills** and is not authorized to make any representation or to incur any liability on behalf of **Hyland Hills**.

15. **Hyland Hills** reserves the right to restrict, totally or in part, the use of the facility by any individual(s) whom **Hyland Hills** deems to be in violation of this Agreement, any applicable Hyland Hills rule or regulation or who acts in a

manner which, in the judgment of **Hyland Hills**, constitutes a danger to him or herself, to others or to property.

16. Failure of **User** to abide by the terms of the Agreement may, at the sole option of **Hyland Hills**, result in the immediate termination of **User's** right to use the facility and forfeiture of all rent and deposits paid by **User** to **Hyland Hills**.

Hyland Hills Park and Recreation District
8801 N Pecos St
Federal Heights, Colorado 80260
(303) 428-7488 or (303) 650-7580

User:

Adams County, Colorado
Print Name

4430 S Adams County Parkway
Street Address

X _____
Board of County Commissioner's - Chair

Brighton, CO 80601
City State Zip Code

Exhibit A— Initial Lot Usage of Lots C, D, E, and F through September 30th, 2020 (as shown in green). No longer applicable



Exhibit B – Lots B & C for the period October 1, 2020 through December 31, 2020.



Exhibit C – Hyland Hills / Water World Service Access (as noted in orange).



Exhibit D – User (Adams County) snow plow/snow removal for October 1, 2020 through December 31, 2020.

Yellow = Adams County Lot Usage Boundary

Orange = Water World Plowed path from 90th & Tejon to our service gate.

Green = Shared plowing between Adams County and Other Party (Christmas in Color). Designated areas of snow piling to be verified with Hyland Hills by the respective Party.





PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: License Agreement with South Platte Crossing for COVID-19 Test Site
FROM: Nicci Beauprez, Project Manager – Land & Assets
AGENCY/DEPARTMENT: Facilities & Fleet Management
HEARD AT STUDY SESSION ON:
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves the License Agreement For COVID-19 Testing at Parking Lot of 7190 Colorado Boulevard.

BACKGROUND:

Adams County requests, and South Platte Crossing's Condominium Association has agreed to offer, a portion of the parking lot of South Platte Crossing's parking lot for use as a public COVID-19 Test Site located at 7190 Colorado Blvd., Commerce City, CO according the terms and conditions of the attached License Agreement. The project is a partnership with the Colorado Department of Public Health and Environment, which is contracting the testing agency, and will provide all personnel, materials, supplies and oversight for testing. The County will provide the location, traffic control/security, and other support logistics, paid for with a portion of its allocation of Coronavirus Aid, Relief, and Economic Security Act (CARES) funds.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

County Manager's Office, County Attorney's Office, Facilities & Fleet Management

ATTACHED DOCUMENTS:

Resolution

License Agreement For COVID-19 Testing at Parking Lot of 7190 Colorado Boulevard

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<u>0</u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>0</u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING LICENSE AGREEMENT FOR COVID-19
TESTING AT PARKING LOT OF 7190 COLORADO BOULEVARD WITH
SOUTH PLATTE CROSSING CONDOMINIUM ASSOCIATION

Resolution 20-

WHEREAS, Adams County has been asked to assist the Colorado Department of Public Health and Environment to expand testing locations of the current COVID-19 pandemic; and,

WHEREAS, South Platte Crossing Condominium Association (the “Association”) has a sufficient site to provide such a location within its parking lot, located at 7190 Colorado Boulevard, Commerce City, Colorado; and,

WHEREAS, Adams County would like to use this location to fulfill a COVID-19 testing location; and,

WHEREAS, the Association would like to offer use of a portion of its property for the purpose of a testing site to Adams County according to the terms and conditions of the attached License Agreement for COVID-19 Testing at Parking Lot of 7190 Colorado Boulevard.

NOW THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado that the attached License Agreement for COVID-19 Testing at Parking Lot of 7190 Colorado Boulevard, is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to execute said License Agreement on behalf of Adams County.

LICENSE AGREEMENT FOR COVID-19 TESTING AT PARKING LOT OF 7190
COLORADO BOULEVARD

THIS LICENSE AGREEMENT (the "Agreement") is made as of _____, 2020 ("Effective Date"), by and between the Adams County Board of County Commissioners, located at 4430 S. Adams County Parkway, Brighton, CO 80601 ("Licensee"), and the South Platte Crossing Condominium Association, Inc., a Colorado Non-profit Corporation, located at _____ CO 80 ____ ("Licensor").

RECITALS

A. Licensor is responsible for enforcing compliance with the bylaws and rules of the property, consisting of both a building and parking lot, located at 7190 Colorado Boulevard, Commerce City, CO.

B. Licensee is an owner of several units in the building that wishes to conduct a mobile COVID-19 testing program in the southern end of the parking lot, in an area where Licensee has an exclusive parking easement as depicted in the attached Exhibit A.

C. Licensor is willing to grant permission for said mobile COVID-19 testing in the southern end of the parking lot pursuant to the terms and conditions set forth herein in order to ensure Licensee's proposed use of the parking lot complies with the bylaws and rules for the property.

AGREEMENT

NOW, THEREFORE, in consideration of the sum of ten dollars, and other good and valuable consideration the receipt and sufficiency of which is hereby stipulated, and the keeping and performance of the covenants and agreements by Licensee under this Agreement, Licensor hereby grants Licensee a non-exclusive revocable license to use the portions of the parking lot of 7190 Colorado Boulevard ("Parking Lot") as set forth in this Agreement:

1. Use.

(a) Licensee shall have the non-exclusive right to conduct a mobile COVID-19 testing facility in the Parking Lot. The facility shall consist of a vehicular facility/modified RV situated in the southern end of the Parking Lot. The clinic shall only be conducted from 2 p.m. to 8 p.m. on Fridays. Licensee shall maintain a traffic flow throughout the Parking Lot that does not materially interfere with the ability of employees, patrons, and visitors of the units within the building to access the building. Licensee may maintain a portable toilet in the Parking Lot for COVID-19 testing facility users, but Licensee shall not allow users of the testing facility to access restrooms within the building.

(b) Licensee shall remove trash from its COVID-19 testing facility from the Parking Lot. Licensee shall not bring any hazardous substances onto the Parking Lot.

2. Term. The term of Licensee's rights under this Agreement shall commence on the Effective Date hereof and shall terminate on December 31, 2020 (the "Expiration Date"), unless terminated earlier as provided herein. Either party may terminate this Agreement at any time and for any reason upon 30 days' prior written notice to the other.

3. Rent. Rent for the entire term of this Agreement shall be ten dollars, the receipt and sufficiency of which is stipulated.

4. Maintenance and Operation of the Mobile Testing Facility.

(a) Licensee shall be responsible for all costs associated with maintaining the mobile testing facility and running the mobile testing program in the Parking Lot.

(b) Licensee, at its sole expense, shall obtain all necessary governmental permits for its operations.

5. Damage to Property. Licensor shall not be responsible for the security of the mobile testing facility or for any theft or vandalism that occurs to the mobile testing facility. The keeping or storing of all property of Licensee on the licensed premises shall be at the sole risk of Licensee. Licensee is a governmental entity and shall maintain insurance in compliance with the Colorado Governmental Immunity Act at all times while running its mobile testing program in the Parking Lot. Licensee shall be responsible for repairing any damage to the Parking Lot caused by its mobile testing program.

6. Liability. Licensee shall be responsible for all liability, loss, damages, costs, or expenses incurred by Licensor where the injuries are caused by the actions or omissions of Licensee, Licensee's agents, servants, contractors, or employees, or of any other person entering onto the licensed premises under express or implied invitation of Licensee for the mobile testing program. Licensee shall not, however, be liable to the extent such damages are caused by the gross negligence or willful misconduct of Licensor, or for consequential damages.

7. Surrender and Notice. Upon the expiration or other termination of the term, Licensee shall quit and surrender to Licensor the licensed premises in good order and condition, and Licensee shall remove all of its mobile testing program facilities/equipment and restore the licensed premises to its original condition, normal wear and tear excepted.

8. Attorneys' Fees. In the event of any action filed in relation to this Agreement, each party shall pay its own reasonable attorneys' fees and other disbursements.

9. Entire Agreement. This Agreement constitutes the entire agreement of the parties hereto with respect to use of the Parking Lot for a COVID-19 mobile testing program and shall supersede all prior offers, negotiations, and agreements.

10. Notices. All notices and other communications required or permitted under this Agreement shall be in writing and shall be given by United States first class mail, postage prepaid, registered or certified, return receipt requested, or by hand delivery (including by means of a professional messenger service) to the address noted below:

For Licensee:

Nicci Beauprez, Project Manager—Land & Assets
4430 S. Adams County Parkway, Suite C1700
Brighton, CO 80601
Phone: 720-523-6060

County Attorney's Office
4430 S. Adams County Parkway
Brighton, CO 80601

For Licensor:

South Platte Crossing Condominium Association

Attn: _____

Any such notice or other communication shall be deemed to be effective when actually received or refused. Either party may by similar notice given change the address to which future notices or other communications shall be sent.

11. Transfer and Assignment. Licensee shall have no right to sublet, assign or transfer this Agreement, or rights arising under this Agreement. Any assignment or sublease in violation of this section shall be void.

12. As Is; No Licensor Representations. Licensee acknowledges and agrees that it accepts the licensed premises in its "as is" condition and Licensee has not relied upon any statements, representations, agreements, or warranties by Licensor, its agents or employees, except such as are expressed herein, and that no amendment or modification of this Agreement shall be valid or binding unless expressed in writing and executed by the parties hereto.

13. No Recordation. This Agreement shall not be recorded. Any recordation by Licensee of this Agreement or any memorandum of this Agreement shall constitute an automatic and non-curable default under this Agreement.

14 Governing Law. This Agreement will be governed by the internal laws of the State of Colorado, without reference to its conflict of laws provisions. Venue for any dispute shall be in Adams County, Colorado.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed the day and year first written above.

LICENSEE:

Adams County Board of County Commissioners

By: _____
Chair

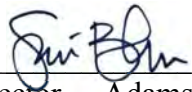
Date: _____

LICENSOR:

South Platte Crossing Condominium Association, Inc.

By: _____
Director – _____
_____ as President &

Treasurer
Date: _____

By:  _____
Director – Adams County, Colorado –
Seán Braden as Vice President &
Secretary

Date: 10/29/2020

Approved to Form

County Attorney's Office

EXHIBIT A





PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Ambulance License Renewal
FROM: Brandan Slattery Licensing Administrator, CEDD
AGENCY/DEPARTMENT: Community and Economic Development Department
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners Approves the ambulance license renewal for Platte Valley Ambulance Service.

BACKGROUND:

Through a Multi-County Ambulance Committee Intergovernmental Agreement, the Community and Economic Development Department is responsible for the licensing of all private ambulances in the county. The ambulance license for Platte Valley Ambulance Service is due for renewal. The application packet has been received and is deemed complete.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Community and Economic Development Department

ATTACHED DOCUMENTS:

Resolution and License for Platte Valley Ambulance Service.

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 0001
Cost Center: 1190.5125

	Object Account	Subledger	Amount
Current Budgeted Revenue:	5125		\$6000.00
Additional Revenue not included in Current Budget:			
Total Revenues:	5125		<u>\$6000.00</u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u> </u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING AMBULANCE SERVICE LICENSE FOR PLATTE
VALLEY AMBULANCE SERVICE

WHEREAS, the General Assembly of the State of Colorado has enacted the Colorado Medical and Trauma Services Act, Section 25-3.5-101 et seq. C.R.S. (the "Act"); and,

WHEREAS, the Act requires the Board of County Commissioners for each County to administer licensure of ambulance services; and,

WHEREAS, under the provisions of the Act, each ambulance operated by a licensed ambulance service in the State of Colorado must be issued a license and permit evidencing that the ambulance and its equipment meets applicable state requirements; and,

WHEREAS, Adams County has entered into an intergovernmental agreement with the City and County of Broomfield and the counties of Arapahoe, Douglas, Denver, Elbert, and Jefferson to establish a licensing program that provides for reciprocal inspection, licensing, and permitting that may be used by all parties, creating efficiency and cost saving to those parties and to the ambulance service providers; and,

WHEREAS, Platte Valley Ambulance Service, 1600 Prairie Center Parkway, Brighton, CO 80601, has applied for an Ambulance Service License through Adams County; and,

WHEREAS, Adams County has reviewed the inspection performed through the intergovernmental agreement and the application of Platte Valley Ambulance Service and has found that the ambulances meet the standards set forth in the March 2011 Adams County Ambulance Services Regulations; and,

WHEREAS, Platte Valley Ambulance Service has complied with all regulations set forth in the March 2011 Adams County Ambulance Services Regulations.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the Ambulance Service License for Platte Valley Ambulance Service is hereby approved to provide ambulance services in the County of Adams.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to sign said Ambulance Service License on behalf of Adams County.

County of Adams, State of Colorado

No. ADCO 10/20

Licensing Fee: \$1000

Ambulance Service License

This is to Certify, that **Platte Valley Ambulance Service, 1600 Prairie Center Parkway, Brighton, CO 80601**, having applied for a license to provide **Advanced Life Support** ambulance services, and having paid to the Treasurer of Adams County the required fees therefore, the above named applicant is hereby licensed to provide ambulance services within and without the County of Adams, State of Colorado, for one year from the **31th of October 2020**, unless this license be sooner revoked or suspended as provided by law.

This license is subject to the laws of the State of Colorado, and the Resolutions of the Board of County Commissioners of the County of Adams, passed pursuant thereto.

In Testimony Whereof, the Board of County Commissioners of the County of Adams has hereunto subscribed its name by its officers duly authorized, this _____ day of _____, _____.

Board of County Commissioners of the County of Adams,
State of Colorado

Attest:

Chair

Clerk



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Ambulance License Renewal
FROM: Brandan Slattery - License Administrator CEDD
AGENCY/DEPARTMENT: Community and Economic Development Department
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners Approves the ambulance license renewal for Strasburg Fire Protection District #8.

BACKGROUND:

Through a Multi-County Ambulance Committee Intergovernmental Agreement, the Community and Economic Development Department is responsible for the licensing of all private ambulances in the county. The ambulance license for Strasburg Fire Protection District #8 is due for renewal. The application packet has been received and is deemed complete. Included in the packet is a licensing fee waiver request, due to a limited operating budget and a department that is made up of a largely volunteer staff. This request has been applied for historically.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Community and Economic Development Department

ATTACHED DOCUMENTS:

Resolution, Fee Waiver Request and License for Strasburg Fire Protection District #8.

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 0001
Cost Center: 1190.5125

	Object Account	Subledger	Amount
Current Budgeted Revenue:	5125		\$6000
Additional Revenue not included in Current Budget:			
Total Revenues:	5125		<u>\$6000</u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u> </u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING AMBULANCE SERVICE LICENSE FOR STRASBURG
FIRE PROTECTION DISTRICT #8

WHEREAS, the General Assembly of the State of Colorado has enacted the Colorado Medical and Trauma Services Act, Section 25-3.5-101 et seq. C.R.S. (the "Act"); and,

WHEREAS, the Act requires the Board of County Commissioners for each County to administer licensure of ambulance services; and,

WHEREAS, under the provisions of the Act, each ambulance operated by a licensed ambulance service in the State of Colorado must be issued a license and permit evidencing that the ambulance and its equipment meets applicable state requirements; and,

WHEREAS, Adams County has entered into an intergovernmental agreement with the City and County of Broomfield and the counties of Arapahoe, Douglas, Denver, Elbert, and Jefferson to establish a licensing program that provides for reciprocal inspection, licensing, and permitting that may be used by all parties, creating efficiency and cost saving to those parties and to the ambulance service providers; and,

WHEREAS, Strasburg Fire Protection District #8, 56281 E. Colfax Ave., Strasburg, CO 80136, has applied for an Ambulance Service License through Adams County; and,

WHEREAS, Strasburg Fire Protection District #8, has applied for a licensing fee waiver due to a limited operating budget and a department comprised of a majority of volunteers; and,

WHEREAS, Adams County has reviewed the inspection performed through the intergovernmental agreement and the application of Strasburg Fire Protection District #8 ambulances and has found that the ambulances meet the standards set forth in the March 2011 Adams County Ambulance Services Regulations; and,

WHEREAS, Strasburg Fire Protection District #8 has complied with all regulations set forth in the March 2011 Adams County Ambulance Services Regulations.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the Ambulance Service License for Strasburg Fire Protection District #8, and fee waiver, are hereby approved to provide ambulance services in the County of Adams.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to sign said Ambulance Service License on behalf of Adams County.

County of Adams, State of Colorado

No. ADCO 10/20

Licensing Fee: Waived

Ambulance Service License

This is to Certify, that **Strasburg Fire Protection District #8, 56281 E. Colfax Ave., Strasburg, CO 80136**, having applied for a license to provide **Advanced Life Support** ambulance services, and having paid to the Treasurer of Adams County the required fees therefore, the above named applicant is hereby licensed to provide ambulance services within and without the County of Adams, State of Colorado, for one year from the **31th of October 2020**, unless this license be sooner revoked or suspended as provided by law.

This license is subject to the laws of the State of Colorado, and the Resolutions of the Board of County Commissioners of the County of Adams, passed pursuant thereto.

In Testimony Whereof, the Board of County Commissioners of the County of Adams has hereunto subscribed its name by its officers duly authorized, this _____ day of _____, _____.

Board of County Commissioners of the County of Adams,
State of Colorado

Attest:

Chair

Clerk



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Ambulance License Renewal
FROM: Brandan Slattery – License Administrator
AGENCY/DEPARTMENT: Community and Economic Development Department
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners Approves the ambulance license renewal for Western Ambulance Inc.

BACKGROUND:

Through a Multi-County Ambulance Committee Intergovernmental Agreement, the Community and Economic Development Department is responsible for the licensing of all private ambulances in the county. The ambulance license for Western Ambulance Inc. is due for renewal. The application packet has been received and is deemed complete.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Community and Economic Development Department

ATTACHED DOCUMENTS:

Resolution and License for Western Ambulance Inc.

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 0001
Cost Center: 1190.5125

	Object Account	Subledger	Amount
Current Budgeted Revenue:	5125		\$6000.00
Additional Revenue not included in Current Budget:			
Total Revenues:	5125		<u>\$6000.00</u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u> </u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING AMBULANCE SERVICE LICENSE FOR WESTERN
AMBULANCE, INC.

WHEREAS, the General Assembly of the State of Colorado has enacted the Colorado Medical and Trauma Services Act, Section 25-3.5-101 et seq. C.R.S. (the "Act"); and,

WHEREAS, the Act requires the Board of County Commissioners for each County to administer licensure of ambulance services; and,

WHEREAS, under the provisions of the Act, each ambulance operated by a licensed ambulance service in the State of Colorado must be issued a license and permit evidencing that the ambulance and its equipment meets applicable state requirements; and,

WHEREAS, Adams County has entered into an intergovernmental agreement with the City and County of Broomfield and the counties of Arapahoe, Douglas, Denver, Elbert, and Jefferson to establish a licensing program that provides for reciprocal inspection, licensing, and permitting that may be used by all parties, creating efficiency and cost saving to those parties and to the ambulance service providers; and,

WHEREAS, Western Ambulance, Inc., 6541 Washington St., Unit R, Denver, CO 80229, has applied for an Ambulance Service License through Adams County; and,

WHEREAS, Adams County has reviewed the inspection performed through the intergovernmental agreement and the application of Western Ambulance Inc. and has found that the ambulances meet the standards set forth in the March 2011 Adams County Ambulance Services Regulations; and,

WHEREAS, Western Ambulance Inc. has complied with all regulations set forth in the March 2011 Adams County Ambulance Services Regulations.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the Ambulance Service License for Western Ambulance, Inc. is hereby approved to provide ambulance services in the County of Adams.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to sign said Ambulance Service License on behalf of Adams County.

County of Adams, State of Colorado

No. ADCO 10/20

Licensing Fee: \$875

Ambulance Service License

This is to Certify, that **Western Ambulance Inc., 6541 Washington Street Unit R, Denver, CO 80229**, having applied for a license to provide **Advanced Life Support** ambulance services, and having paid to the Treasurer of Adams County the required fees therefore, the above named applicant is hereby licensed to provide ambulance services within and without the County of Adams, State of Colorado, for one year from the **31th of October 2020**, unless this license be sooner revoked or suspended as provided by law.

This license is subject to the laws of the State of Colorado, and the Resolutions of the Board of County Commissioners of the County of Adams, passed pursuant thereto.

In Testimony Whereof, the Board of County Commissioners of the County of Adams has hereunto subscribed its name by its officers duly authorized, this _____ day of _____, _____.

Board of County Commissioners of the County of Adams,
State of Colorado

Attest:

Chair

Clerk



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Amendment 2 to an Intergovernmental Agreement with Strasburg School District 31J for distribution of CARES funds.
FROM: Alisha Reis, Deputy County Manager
AGENCY/DEPARTMENT: County Manager's Office/County Attorney's Office/Budget & Finance Department
HEARD AT STUDY SESSION ON:
AUTHORIZATION TO MOVE FORWARD: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves Amendment 2 to the IGA to distribute CARES funds to Strasburg School District 31J.

BACKGROUND:

Attached is Amendment 2 to an intergovernmental agreement for the Board's consideration to distribute a portion of funding allocated to the County by the Coronavirus Aid, Relief, and Economic Security Act (CARES). The County was allocated about \$90.3 million, and the Board of County Commissioners previously agreed to funding to school districts serving Adams County. Subsequently, the Board awarded additional funding to several school districts who expressed a need for additional support for items such as COVID-19 testing, face shields and other personal protective equipment (PPE), and support for remote and pod-based educational instruction. That additional award is formalized in the attached amendment.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

County Manager's Office
County Attorney's Office
Budget & Finance Department

ATTACHED DOCUMENTS:

Resolution
Intergovernmental Agreement

RESOLUTION APPROVING AMENDMENT 2 TO AN INTERGOVERNMENTAL AGREEMENT BETWEEN ADAMS COUNTY AND STRASBURG SCHOOL DISTRICT 31J REGARDING DISBURSEMENT OF CORONAVIRUS AID, RELIEF, AND ECONOMIC SECURITY ACT FUNDS

WHEREAS, Section 18(2) of Article XIV of the Colorado Constitution and Sections 29-1-201, *et seq.* and 29-20-105 of the Colorado Revised Statutes authorize and encourage governments to cooperate by contracting with one another for their mutual benefit; and,

WHEREAS, the COVID-19 pandemic has created myriad economic distress and unanticipated costs in American society to individuals and families, to businesses, and to the state and local governments addressing the pandemic's effects; and,

WHEREAS, Congress recently enacted the Coronavirus Aid, Relief, and Economic Security Act, P.L. 116-136 ("CARES") to provide relief funds to individuals, businesses, and state and local governments; and,

WHEREAS, CARES allows Adams County (the "County") to directly receive funds for costs incurred in fighting and ameliorating the effects of COVID-19; and,

WHEREAS, pursuant to the terms of this Amendment 2, the County wishes to disburse to Strasburg School District 31J (the "District"), and the District wishes to receive from the County, CARES funds for COVID-19 related costs incurred by District.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, County of Adams, State of Colorado, that Amendment 2 to the Intergovernmental Agreement between Adams County and Strasburg School District 31J regarding disbursement of Coronavirus Aid, Relief, and Economic Security Act Funds, is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to execute said Amendment 2 to the Intergovernmental Agreement on behalf of the County.

**AMENDMENT 2 TO INTERGOVERNMENTAL AGREEMENT
BETWEEN ADAMS COUNTY AND STRASBURG SCHOOL DISTRICT
31J REGARDING DISBURSEMENT OF CORONAVIRUS AID, RELIEF
AND ECONOMIC SECURITY ACT FUNDS**

THIS AMENDMENT is made and entered into this 3rd day of November, 2020, by and between Adams County, Colorado, located at 4430 S. Adams County Parkway, Brighton, Colorado, 80601 ("County") and Strasburg School District 31J ("District"), located at 56729 Colorado Avenue, Strasburg, CO 80136.

RECITALS

A. WHEREAS, by means of an Intergovernmental Agreement between the parties regarding disbursement of Coronavirus Aid, Relief and Economic Security Act ("CARES") funds dated June 24, 2020 ("IGA") the parties set forth the terms and conditions for County to disburse CARES funds to District for use paying costs for and ameliorating effects of the COVID-19 pandemic; and,

B. WHEREAS, the parties further increased the amount of disbursed funds beyond that agreement, as set forth in Amendment 1 dated September 23, 2020; and

C. WHEREAS, the parties now wish to increase the amount of the disbursed funds as set forth in this Amendment 2.

NOW, therefore, in consideration of the promises, conditions and covenants contained herein, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. The amount of CARES funds to be disbursed by County to District shall be increased from \$233,973.67 to a total \$285,952.67 (after an increase in funds of \$51,979). The additional funds shall be paid within 14 days of the date this Amendment 2 is fully executed and invoice submitted to the County.
2. Except as modified by this Amendment 2, the terms of the IGA shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused their names to be affixed hereto.

BOARD OF COUNTY COMMISSIONERS
ADAMS COUNTY, COLORADO

Chair

Date

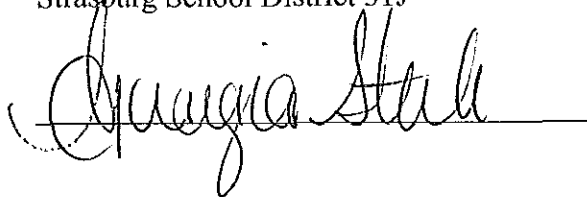
ATTEST:
JOSH ZYGIELBAUM
CLERK AND RECORDER

APPROVED AS TO FORM:

Adams County Attorney's Office

Deputy Clerk

Strasburg School District 31J



11/3/2020
Date



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Agreement with Salud Family Health Centers for distribution of CARES funds.
FROM: Alisha Reis, Deputy County Manager
AGENCY/DEPARTMENT: County Manager's Office/County Attorney's Office/Budget & Finance Department
HEARD AT STUDY SESSION ON: June 23, 2020
AUTHORIZATION TO MOVE FORWARD: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves the agreement to distribute CARES funds to Salud Family Health Centers.

BACKGROUND:

Attached is an agreement for the Board's consideration to distribute a portion of funding allocated to the County by the Coronavirus Aid, Relief, and Economic Security Act (CARES). The County was allocated about \$90.3 million, and the Board of County Commissioners previously agreed to allocate \$200,000 for medical needs for uninsured and underinsured people during the pandemic.

This funding will go equally to Salud Family Health Centers (\$100,000) and Clinica Family Health (\$100,000) to support this effort.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

County Manager's Office
County Attorney's Office
Budget & Finance Department

ATTACHED DOCUMENTS:

Resolution
Funding Agreement

RESOLUTION APPROVING AGREEMENT BETWEEN
THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF ADAMS AND
SALUD FAMILY HEALTH CENTERS REGARDING DISBURSEMENT OF
CORONAVIRUS AID, RELIEF, AND ECONOMIC SECURITY ACT FUNDS

WHEREAS, the COVID-19 pandemic has created myriad economic distress and unanticipated costs in American society to individuals and families, to businesses, and to the state and local governments addressing the pandemic's effects; and,

WHEREAS, Congress recently enacted the Coronavirus Aid, Relief, and Economic Security Act, P.L. 116-136 ("CARES") to provide relief funds to individuals, businesses, and state and local governments; and,

WHEREAS, CARES allows Adams County (the "County") to directly receive funds for costs incurred in fighting and ameliorating the effects of COVID-19; and

WHEREAS, pursuant to the terms of the Agreement between Adams County and Salud Family Health Centers, the County wishes to disburse to Salud Family Health Centers, and Salud Family Health Centers wishes to receive from the County, CARES funds COVID-19 related costs.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, County of Adams, State of Colorado, that the Agreement between Adams County and Salud Family Health Centers regarding disbursement of Coronavirus Aid, Relief, and Economic Security Act Funds, a copy of which is attached and incorporated herein by reference, is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to execute said Agreement on behalf of the County.

AGREEMENT BETWEEN ADAMS COUNTY AND Salud FAMILY HEALTH CENTERS
REGARDING
DISBURSEMENT OF CORONAVIRUS AID, RELIEF AND ECONOMIC SECURITY
ACT FUNDS

THIS AGREEMENT ("Agreement"), is made this _____ day of November, 2020, by and between Adams County, Colorado, located at 4430 S. Adams County Parkway, Brighton, CO 80601 ("County") and Salud Family Health Centers located at 203 S. Rollie Avenue, Fort Lupton, CO 80621 ("Salud") for the purpose of disbursing funds provided by the Coronavirus Aid, Relief, and Economic Security Act, P.L. 116-136 ("CARES").

WITNESSETH:

WHEREAS, the COVID-19 pandemic has created myriad economic distress and unanticipated costs in American society to individuals and families, to businesses, and to the state and local governments addressing the pandemic's effects; and,

WHEREAS, Congress recently enacted CARES to provide relief funds to individuals, businesses, and state and local governments; and,

WHEREAS, CARES allows the County to directly receive funds for costs incurred in fighting and ameliorating the effects of COVID-19; and,

WHEREAS, pursuant to the terms of this Agreement, the County wishes to disburse to the Salud, and the Salud wishes to receive from the County, CARES funds for disbursement to Saluds and entities serving Adams County residents for COVID-19 related costs.

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, the Parties agree as follows:

I. FUNDING

County will disburse a maximum of One Hundred Thousand dollars (\$100,000) to Salud. Payments will be disbursed to Salud monthly, only after County receives an invoice from Salud for each month's payment. Salud understands and agrees that the County's obligation to disburse these CARES funds is expressly contingent upon the County receiving said funds from the federal government. In the event the federal government fails to remit said funds, or reduces said funds, the County may reduce or terminate its payment accordingly. No Adams County funds shall be encumbered or involved in this Agreement.

Salud must submit reports no later than the 10th day of each month on the expenditure of its CARES funds, including the amount and purpose of each expenditure, to County monthly. Any CARES funds not spent by December 4, 2020, shall be returned to the County so that the County's obligation to return unspent CARES funds to the Federal Treasury may be timely fulfilled.

II. SCOPE OF PROJECT AND ACCOUNTING

CARES funds shall be spent solely for the COVID-19 related costs set forth in CARES. CARES imposes expenditure and accounting obligations upon local governments receiving CARES funds. Salud agrees to be solely responsible for ensuring that it disburses and accounts for the CARES funds received from the County in strict compliance with CARES requirements. Because CARES is recent legislation, the parties anticipate that additional federal legislation, rules, and regulations may be promulgated regarding the expenditure and accounting requirements. Salud shall familiarize itself with, and shall adhere to, all current and subsequent legislation, rules, and regulations. In the event of non-compliance with its legislative and regulatory mandates, the federal government may seek reimbursement of funds it deems were not spent in compliance with its legislation and rules. In the event the federal government seeks reimbursement of funds disbursed by Salud, Salud shall be solely responsible for reimbursing said funds, and, in the event the federal government seeks reimbursement of funds disbursed by Salud from County, Salud shall reimburse County for any funds returned by County on Salud's behalf within thirty days of County's reimbursement.

III. PUBLIC NECESSITY

The Parties agree that the work performed pursuant to this Agreement is necessary for the health, safety, comfort, convenience, and welfare of all the people in Adams County in the fight against COVID-19.

IV. LIABILITY

Each party hereto shall be responsible for any suits, demands, costs or actions at law resulting from its own acts or omissions and may insure against such possibilities as appropriate.

The Parties hereto understand and agree that the County, its officers and employees are relying on, and do not waive or intend to waive by any provision of the Agreement, the monetary limitations or any other rights, immunities, and protections provided by the Colorado Governmental Immunity Act, C.R.S. 24-10-101 *et seq.*, as from time-to-time amended, or otherwise available to either party, their officers, or their employees.

V. NOTICES

A. Any notices, demands, or other communications required or permitted to be given by any provision of this Agreement shall be given in writing, delivered personally or sent by registered mail, postage prepaid and return receipt requested, addressed to Parties at the addresses set forth below or at such other address as either party may hereafter or from time to time designate by written notice to the other party given when personally delivered or mailed, and shall be considered received in the earlier of either the day on which such notice is actually received by the party to whom it is addressed or the third day after such notice is mailed.

For Adams County:

Adams County Manager's Office
4430 S. Adams County Parkway
Brighton, Colorado 80601-8206
Attn: Alisha Reis, areis@adcogov.org

Adams County Attorney's Office
4430 South Adams County Parkway, Suite C5000B
Brighton, Colorado 80601-8206

For Salud:

Salud Family Health Centers
203 S. Rollie Ave.
Fort Lupton, CO 80621
Attn: Jennifer Morse, jmorse@saludclinic.org

B. The Parties each agree to designate and assign a representative to act on the behalf of said Parties in all matters related to this Agreement. Each

representative shall coordinate all Agreement-related issues between the Parties, shall attend all necessary meetings, and shall be responsible for providing all available related information upon request by the County or Salud. Said representatives shall have the authority for all approvals, authorizations, notices or concurrences required under this Agreement, but shall not be authorized to amend the terms of this Agreement.

VI. AMENDMENTS

This Agreement contains all of the terms agreed upon by and among the Parties. Any amendments or modifications to this Agreement shall be in writing and executed by the Parties hereto to be valid and binding.

VII. SEVERABILITY

If any clause or provision herein contained shall be adjudged to be invalid or unenforceable by a court of competent jurisdiction or by operation of any applicable law, such invalid or unenforceable clause or provision shall not affect the validity of the Agreement as a whole and all other clauses or provisions shall be given full force and effect.

VIII. APPLICABLE LAWS

This Agreement shall be governed by and construed in accordance with the laws of the State of Colorado. Venue for any and all legal actions regarding the transaction covered herein shall lie in Adams County, Colorado.

IX. ASSIGNABILITY

No party to this Agreement shall assign or transfer any of its rights or obligations hereunder without the prior written consent of the non-assigning party or parties to this Agreement.

X. BINDING EFFECT

The provisions of this Agreement shall bind and shall inure to the benefit of the Parties hereto and to their respective successors and permitted assigns.

XI. EMPLOYMENT STATUS

This Agreement shall not change the employment status of any employees of the Parties. No party shall have the right to control or direct the activities of any employees of another related to this Agreement.

XII. NO DISCRIMINATION IN EMPLOYMENT

In connection with the performance of work under this Agreement, the Parties agree not to refuse to hire, discharge, promote or demote, or to discriminate in matters of compensation against any person otherwise qualified because of race, color, ancestry, creed, religion, national origin, gender, age, military status, sexual orientation, marital status, or physical or mental disability and further agree to insert the foregoing provision in all subcontracts hereunder.

XIII. APPROPRIATIONS

Notwithstanding any other term, condition, or provision herein, each and every obligation of the Parties stated in this Agreement is subject to the requirement of a prior appropriation of funds therefor by the appropriate governing body of the County.

XIV. NO THIRD PARTY BENEFICIARIES

It is expressly understood and agreed that enforcement of the terms and conditions of this Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to the Parties, and nothing contained in this Agreement shall give or allow any such claim or right of action by any other or third person on such Agreement. It is the express intention of the Parties that any person or party other than either one of the Parties receiving services or benefits under this Agreement shall be deemed to be an incidental beneficiary only.

XV. ILLEGAL ALIENS

The Parties agree that any public contract for services executed as a result of this agreement shall prohibit the employment of illegal aliens in compliance with §8-17.5-101 C.R.S. et seq.

IN WITNESS WHEREOF, the Parties hereto have caused this instrument to be executed by properly authorized signatories as of the date and year first above written.

Signatures on next page.

Salud Family Health Centers



By:
John Santistevan
President/ CEO

BOARD OF COUNTY COMMISSIONERS
ADAMS COUNTY, COLORADO

Chair

ATTEST:

Erica Hannah, Deputy Clerk

APPROVED AS TO FORM:

Adams County Attorney's Office

Salud Family Health Centers (Salud) intends to use the CARES Act dollars to benefit residents of Adams County, 55+ years of age, at three clinics, all located in Adams County:

1. Brighton Acute Care Clinic (formerly the Women's Clinic, transformed to an Acute Care Clinic as part of Salud's COVID-19 response)
30 S. 20th Avenue
Brighton, CO 80601
2. Brighton Salud Family Health Center (primary care, pharmacy, dental, behavioral health, imaging services, community COVID testing):
1860 Egbert Street
Brighton, CO 80601
3. Commerce City Salud Family Health Center (primary care, pharmacy, dental, behavioral health, imaging services, community COVID testing):
6255 Quebec Parkway
Commerce City, CO 80022

To provide a safe clinic environment (to reduce the spread of COVID-19) for the 55+ population, Salud is using CARES funds to invest in two measures:

1. Purchase and installation of HEPA filters for exam rooms, dental operatories, lab, waiting rooms and other patient areas. \$80,000
2. Additional PPE – as winter approaches, there will be additional use of PPE (especially in the Acute Care Clinic). \$20,000

Salud provides the only source of care for uninsured 55+ population in Brighton and Commerce City. We are committed to ensure these patients can continue to be seen for ongoing care, as many have chronic disease and other conditions that require in-person follow-up care (following a telehealth visit). Salud clinics provide medical, dental, pharmacy and behavioral health services to the 55+ population.



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Amendment 1 to a Funding Agreement with Village Exchange Center for distribution of CARES funds.
FROM: Alisha Reis, Deputy County Manager
AGENCY/DEPARTMENT: County Manager's Office/County Attorney's Office/Budget & Finance Department
HEARD AT STUDY SESSION ON:
AUTHORIZATION TO MOVE FORWARD: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves Amendment 1 to a funding agreement with Village Exchange Center to distribute CARES funds.

BACKGROUND:

Attached is Amendment 1 to a funding agreement for the Board's consideration to distribute a portion of funding allocated to the County by the Coronavirus Aid, Relief, and Economic Security Act (CARES). The County was allocated about \$90.3 million, and the Board of County Commissioners previously agreed to funding to organizations serving Adams County.

The funding agreement with Village Exchange Center will go to support a program of relief payments under the Left Behind Workers Fund, for low-wage workers who test positive for COVID-19 and do not qualify for unemployment or similar relief payments who need support to quarantine.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

County Manager's Office
County Attorney's Office
Budget & Finance Department

ATTACHED DOCUMENTS:

Resolution
Funding Agreement Amendment

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<u> </u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			\$25,000
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u> </u> \$25,000

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

RESOLUTION APPROVING AMENDMENT 1 TO AN AGREEMENT BETWEEN ADAMS COUNTY AND VILLAGE EXCHANGE CENTER REGARDING DISBURSEMENT OF CORONAVIRUS AID, RELIEF, AND ECONOMIC SECURITY ACT FUNDS

WHEREAS, the COVID-19 pandemic has created myriad economic distress and unanticipated costs in American society to individuals and families, to businesses, and to the state and local governments addressing the pandemic's effects; and,

WHEREAS, Congress recently enacted the Coronavirus Aid, Relief, and Economic Security Act, P.L. 116-136 ("CARES") to provide relief funds to individuals, businesses, and state and local governments; and,

WHEREAS, CARES allows Adams County (the "County") to directly receive funds for costs incurred in fighting and ameliorating the effects of COVID-19; and,

WHEREAS, pursuant to the terms of this Amendment 1, the County wishes to disburse to Village Exchange Center, and Village Exchange Center wishes to receive from the County, CARES funds for disbursement to Adams County residents for COVID-19 related costs (Left Behind Workers Fund, Low-Wage Workers Program).

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, County of Adams, State of Colorado, that Amendment 1 to the Agreement between Adams County and Village Exchange Center regarding disbursement of Coronavirus Aid, Relief, and Economic Security Act Funds, is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to execute said Amendment 1 on behalf of the County.

**AMENDMENT 1 TO AGREEMENT BETWEEN ADAMS COUNTY AND
VILLAGE EXCHANGE CENTER REGARDING DISBURSEMENT OF
CORONAVIRUS AID, RELIEF AND ECONOMIC SECURITY ACT
FUNDS**

THIS AMENDMENT 1 is made and entered into this 30th day of October, 2020, by and between Adams County, Colorado, located at 4430 S. Adams County Parkway, Brighton, Colorado, 80601 ("County") and Village Exchange Center ("VEC"), located at 1609 Havana St., Aurora, CO 80010.

RECITALS

A. WHEREAS, by means of an Agreement between the parties regarding disbursement of Coronavirus Aid, Relief and Economic Security Act ("CARES") funds dated October 8, 2020 ("Agreement") the parties set forth the terms and conditions for County to disburse CARES funds to VEC for use paying costs for and ameliorating effects of the COVID-19 pandemic; and,

B. WHEREAS, the parties now wish to increase the amount of the disbursed funds as set forth in this Amendment 1;

NOW, therefore, in consideration of the promises, conditions and covenants contained herein, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. The amount of CARES funds to be disbursed by County to VEC shall be increased from \$1,300,000 to \$1,325,000 (increased by \$25,000). The additional funds shall be paid within 14 days of the date this Amendment 1 is fully executed.
2. Except as modified by this Amendment 1, the terms of the IGA shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused their names to be affixed hereto.

BOARD OF COUNTY COMMISSIONERS
ADAMS COUNTY, COLORADO

Chair

ATTEST:
JOSH ZYGIELBAUM
CLERK AND RECORDER

Deputy Clerk

Village Exchange Center



Date

APPROVED AS TO FORM:

Adams County Attorney's Office

Date

10/30/20



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Boards and Commissions Appointments
FROM: Erica Hannah, Clerk to the Board of County Commissioners
AGENCY/DEPARTMENT: County Manager's Office
HEARD AT STUDY SESSION ON:
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves the resolutions for the boards and commissions appointments.

BACKGROUND:

The attached resolutions are to correct clerical errors relating to board members terms.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

ATTACHED DOCUMENTS:

Resolutions

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<hr/>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<hr/>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION TO AMEND RESOLUTION APPOINTING BRENT VOGGE TO THE ADAMS
COUNTY RETIREMENT BOARD

WHEREAS, the Board of County Commissioners appointed Brent Vogge to the Adams County Retirement Board by Resolution 2020-600 on October 27, 2020; and,

WHEREAS, there was a clerical error that listed Brent Vogge's term expiring on January 31, 2024; and,

WHEREAS, the Board still wishes to appoint Brent Vogge to the Adams County Retirement Board, but amend the term to January 31, 2025.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that Brent Vogge shall be appointed as a member of the Adams County Retirement Board for the term as listed below:

Brent Vogge

Term Expires
January 31, 2025



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Boards and Commissions Appointments
FROM: Erica Hannah, Clerk to the Board of County Commissioners
AGENCY/DEPARTMENT: County Manager's Office
HEARD AT STUDY SESSION ON:
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves the resolutions for the boards and commissions appointments.

BACKGROUND:

The attached resolutions are to correct clerical errors relating to board members terms.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

ATTACHED DOCUMENTS:

Resolutions

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<hr/> <hr/>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<hr/> <hr/>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION TO AMEND RESOLUTION APPOINTING CLINT NICHOLS TO THE E-911
AUTHORITY AS A LAW ENFORCEMENT REPRESENTATIVE

WHEREAS, the Board of County Commissioners appointed Clint Nichols to the E-911 Authority by Resolution 2019-073 on January 29, 2019; and,

WHEREAS, there was a clerical error that listed Clint Nichols' term expiring on February 1, 2022; and,

WHEREAS, the Board still wishes to appoint Clint Nichols to the E-911 Authority, but amend the term to January 31, 2021.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that Clint Nichols shall be appointed as a member of the E-911 Authority as a Law Enforcement Representative for the term as listed below:

Clint Nichols

Term Expires
January 31, 2021



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Boards and Commissions Appointments
FROM: Erica Hannah, Clerk to the Board of County Commissioners
AGENCY/DEPARTMENT: County Manager's Office
HEARD AT STUDY SESSION ON:
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves the resolutions for the boards and commissions appointments.

BACKGROUND:

The attached resolutions are to correct clerical errors relating to board members terms.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

ATTACHED DOCUMENTS:

Resolutions

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			<hr/>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<hr/>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION TO AMEND RESOLUTION APPOINTING DAVE RAMOS TO THE E-911
AUTHORITY AS A FIRE PROTECTION REPRESENTATIVE

WHEREAS, the Board of County Commissioners appointed Dave Ramos to the E-911 Authority by Resolution 2019-078 on January 29, 2019; and,

WHEREAS, there was a clerical error that listed Dave Ramos' term expiring on February 1, 2022; and,

WHEREAS, the Board still wishes to appoint Dave Ramos to the E-911 Authority, but amend the term to January 31, 2021.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that Dave Ramos shall be appointed as a member of the E-911 Authority as a Fire Protection Representative for the term as listed below:

Dave Ramos

Term Expires
January 31, 2021



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Amendment 1 to an Intergovernmental Agreement with Maiker Housing Partners for distribution of CARES funds.
FROM: Alisha Reis, Deputy County Manager
AGENCY/DEPARTMENT: County Manager's Office/County Attorney's Office/Budget & Finance Department
HEARD AT STUDY SESSION ON:
AUTHORIZATION TO MOVE FORWARD: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves Amendment 1 to the IGA to distribute CARES funds to Maiker Housing Partners.

BACKGROUND:

Attached is an Amendment 1 to an Intergovernmental Agreement for the Board's consideration to distribute a portion of funding allocated to the County by the Coronavirus Aid, Relief, and Economic Security Act (CARES). The County was allocated about \$90.3 million, and the Board of County Commissioners previously agreed to allocate \$550,000 to Maiker Housing Partners in support of an initiative of the Housing Stability Response & Recovery Team for mortgage and rental assistance.

Maiker Housing Partners has found the demand for such assistance to outstrip this initial investment and this amendment accounts for an additional investment of \$200,000. This is a reallocation from previously allocated amounts to the Colorado Legal Services (CLS) initiative to represent residents related eviction proceedings. CLS notified the County that it did not feel they could use the entirety of their allocation before the December termination of CARES funding.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

County Manager's Office
County Attorney's Office

Budget & Finance Department

ATTACHED DOCUMENTS:

Resolution
Intergovernmental Agreement Amendment 1

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund:
Cost Center:

	Object Account	Subledger	Amount
Current Budgeted Revenue:			\$90,285,974
Additional Revenue not included in Current Budget:			
Total Revenues:			

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			\$200,000
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			\$200,000

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

RESOLUTION APPROVING AMENDMENT 1 TO AN INTERGOVERNMENTAL
AGREEMENT BETWEEN ADAMS COUNTY AND MAIKER HOUSING PARTNERS
REGARDING THE DISBURSEMENT OF CORONAVIRUS AID, RELIEF, AND
ECONOMIC SECURITY ACT FUNDS

WHEREAS, Section 18(2) of Article XIV of the Colorado Constitution and Sections 29-1-201, *et seq.* and 29-20-105 of the Colorado Revised Statutes authorize and encourage governments to cooperate by contracting with one another for their mutual benefit; and,

WHEREAS, the COVID-19 pandemic has created myriad economic distress and unanticipated costs in American society to individuals and families, to businesses, and to the state and local governments addressing the pandemic's effects; and,

WHEREAS, Congress recently enacted the Coronavirus Aid Relief and Economic Security Act Funds ("CARES") to provide relief funds to individuals, businesses, and state and local governments; and,

WHEREAS, CARES allows Adams County (the "County") to directly receive funds for costs incurred in fighting and ameliorating the effects of COVID-19; and,

WHEREAS, pursuant to the terms of this Amendment 1, the County wishes to disburse to Maiker Housing Partners, and Maiker Housing Partners wishes to receive from County, CARES funds for COVID-19 related costs incurred by Maiker Housing Partners.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, County of Adams, State of Colorado, that Amendment 1 to the Intergovernmental Agreement between the Board of County Commissioners of the County of Adams and Maiker Housing Partners regarding disbursement of Coronavirus Aid, Relief, and Economic Security Act Funds , is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to execute said Amendment 1 to the Intergovernmental Agreement on behalf of the County.

**AMENDMENT 1 TO INTERGOVERNMENTAL AGREEMENT
BETWEEN ADAMS COUNTY AND MAIKER HOUSING PARTNERS
REGARDING DISBURSEMENT OF CORONAVIRUS AID, RELIEF AND
ECONOMIC SECURITY ACT FUNDS**

THIS AMENDMENT 1 is made and entered into this _____ day of _____, 2020, by and between Adams County, Colorado, located at 4430 S. Adams County Parkway, Brighton, Colorado, 80601 (“County”) and Maiker Housing Partners (“Maiker”), located at 3033 W. 71st Avenue, Suite 1000, Westminster, CO 80030.

RECITALS

A. WHEREAS, by means of an Intergovernmental Agreement between the parties regarding disbursement of Coronavirus Aid, Relief and Economic Security Act (“CARES”) funds dated August 6, 2020 (“IGA”) the parties set forth the terms and conditions for County to disburse CARES funds to District for use paying costs for and ameliorating effects of the COVID-19 pandemic; and,

B. WHEREAS, the parties now wish to increase the amount of the disbursed funds as set forth in this Amendment 1;

NOW, therefore, in consideration of the promises, conditions and covenants contained herein, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. The amount of CARES funds to be disbursed by County to Maiker shall be increased from \$550,000 to \$750,000 (increased by \$200,000) for the purpose of rental and mortgage assistance programs. The additional funds shall be paid within 14 days of the date this Amendment 1 is fully executed.
2. Except as modified by this Amendment 1, the terms of the IGA shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused their names to be affixed hereto.

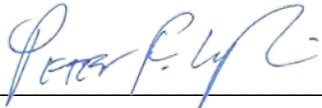
BOARD OF COUNTY COMMISSIONERS
ADAMS COUNTY, COLORADO

Chair

ATTEST:
JOSH ZYGIELBAUM
CLERK AND RECORDER

Deputy Clerk

Maiker Housing Partners



Date

APPROVED AS TO FORM:

Adams County Attorney's Office

10/29/2020

Date



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Amendment 2 to an Intergovernmental Agreement with Maiker Housing Partners for distribution of CARES funds.
FROM: Alisha Reis, Deputy County Manager
AGENCY/DEPARTMENT: County Manager's Office/County Attorney's Office/Budget & Finance Department
HEARD AT STUDY SESSION ON:
AUTHORIZATION TO MOVE FORWARD: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves Amendment 2 to the IGA to distribute CARES funds to Maiker Housing Partners.

BACKGROUND:

Attached is an Amendment 2 to an Intergovernmental Agreement for the Board's consideration to distribute a portion of funding allocated to the County by the Coronavirus Aid, Relief, and Economic Security Act (CARES). The County was allocated about \$90.3 million, and the Board of County Commissioners previously agreed to allocate \$550,000 to Maiker Housing Partners in support of an initiative of the Housing Stability Response & Recovery Team for mortgage and rental assistance. Maiker Housing Partners has found the demand for such assistance to outstrip this initial investment and this amendment accounts for an additional investment of \$1,400,000.

This is a reallocation from previously allocated amounts to the County's organizational needs.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

County Manager's Office
County Attorney's Office
Budget & Finance Department

ATTACHED DOCUMENTS:

Resolution
Intergovernmental Agreement Amendment 2

RESOLUTION APPROVING AMENDMENT 2 TO AN INTERGOVERNMENTAL AGREEMENT BETWEEN ADAMS COUNTY AND MAIKER HOUSING PARTNERS REGARDING DISBURSEMENT OF CORONAVIRUS AID, RELIEF AND ECONOMIC SECURITY ACT FUNDS

WHEREAS, Section 18(2) of Article XIV of the Colorado Constitution and Sections 29-1-201, *et seq.* and 29-20-105 of the Colorado Revised Statutes authorize and encourage governments to cooperate by contracting with one another for their mutual benefit; and,

WHEREAS, the COVID-19 pandemic has created myriad economic distress and unanticipated costs in American society to individuals and families, to businesses, and to the state and local governments addressing the pandemic's effects; and,

WHEREAS, Congress recently enacted the Coronavirus Aid, Relief, and Economic Security Act ("CARES") to provide relief funds to individuals, businesses, and state and local governments; and,

WHEREAS, CARES allows Adams County (the "County") to directly receive funds for costs incurred in fighting and ameliorating the effects of COVID-19; and,

WHEREAS, pursuant to the terms of this Amendment 2, the County wishes to disburse to Maiker Housing Partners, and Maiker Housing Partners wishes to receive from County, CARES funds for COVID-19 related costs incurred by Maiker Housing Partners.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, County of Adams, State of Colorado, that Amendment 2 to the Intergovernmental Agreement between the Board of County Commissioners of the County of Adams and Maiker Housing Partners regarding disbursement of Coronavirus Aid, Relief, and Economic Security Act Funds, is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to execute said Amendment 2 to the Intergovernmental Agreement on behalf of the County.

**AMENDMENT 2 TO INTERGOVERNMENTAL AGREEMENT
BETWEEN ADAMS COUNTY AND MAIKER HOUSING PARTNERS
REGARDING DISBURSEMENT OF CORONAVIRUS AID, RELIEF AND
ECONOMIC SECURITY ACT FUNDS**

THIS AMENDMENT 2 is made and entered into this _____ day of _____, 2020, by and between Adams County, Colorado, located at 4430 S. Adams County Parkway, Brighton, Colorado, 80601 (“County”) and Maiker Housing Partners (“Maiker”), located at 3033 W. 71st Avenue, Suite 1000, Westminster, CO 80030.

RECITALS

A. WHEREAS, by means of an Intergovernmental Agreement between the parties regarding disbursement of Coronavirus Aid, Relief and Economic Security Act (“CARES”) funds dated August 6, 2020 (“IGA”) the parties set forth the terms and conditions for County to disburse CARES funds to District for use paying costs for and ameliorating effects of the COVID-19 pandemic; and,

B. WHEREAS, the parties now wish to increase the amount of the disbursed funds as set forth in this Amendment 2;

NOW, therefore, in consideration of the promises, conditions and covenants contained herein, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. The amount of CARES funds to be disbursed by County to Maiker shall be increased from \$750,000 to \$2,150,000 (increased by \$1,400,000) for the purpose of rental and mortgage assistance programs. The additional funds shall be paid within 14 days of the date this Amendment 2 is fully executed.
2. Except as modified by this Amendment 2, the terms of the IGA shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused their names to be affixed hereto.

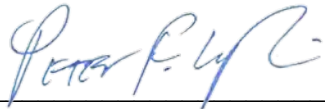
BOARD OF COUNTY COMMISSIONERS
ADAMS COUNTY, COLORADO

Chair

ATTEST:
JOSH ZYGIELBAUM
CLERK AND RECORDER

Deputy Clerk

Maiker Housing Partners



Date

APPROVED AS TO FORM:

Adams County Attorney's Office

11/3/2020

Date



ADAMS COUNTY
COLORADO

PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Engineering and Consultant Services
FROM: Raymond H. Gonzales, County Manager Alisha Reis, Deputy County Manager Nancy Duncan, Finance and Budget Director Jen Tierney Hammer, Procurement and Contracts Manager
AGENCY/DEPARTMENT: Colorado Air and Space Port
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves Amendment Two to renew the agreement with Jviation, Inc., and approve Task Order Seven to complete a Federal Aviation Administration Documented Categorical Exclusion for the Colorado Air and Space Port.

BACKGROUND:

The Colorado Air and Space Port (CASP) has various projects which need to be accomplished in accordance with current regulations, rules, policies, grant assurances, and Advisory Circulars (ACs) required by the Federal Aviation Administration (FAA) for federal/airside and non-federal landside projects. Each specific project will be issued as a task order and approved by the County, in accordance with the awarded agreement. The total value of the agreement will be based upon the actual number of task orders issued.

The Board of County Commissioners approved an agreement on October 25, 2016, to Jviation, Inc., to provide Engineering and Consultant Services. The original agreement allowed for three years and two one-year renewal options. CASP is requesting to exercise the second and final renewal option with Jviation, Inc. Task Order Seven is to complete a FAA Documented Categorical Exclusion (CATEX) for the development of approximately 105 acres for a Data Processing Center at CASP.

The Agreement breakdown is as follows:

Original Task Order Agreement Amount for Consultant and Engineering Services		\$ 0.00	
		Approval Date	Dollar Amount
Task Order One	Consultant and Engineering Services	03/01/2017	\$119,371.00
Task Order Two	Consultant and Engineering Services (Cancelled)	02/21/2018	\$ 00.00
Task Order Three	Consultant and Engineering Services	08/17/2018	\$ 17,045.00
Task Order Four	Consultant and Engineering Services	04/09/2019	\$ 89,113.00
Task Order Five	Consultant and Engineering Services	05/10/2019	\$ 21,160.00
Task Order Six	Consultant and Engineering Services	10/01/2019	\$964,667.18

Amendment One - First Year Renewal	12/03/2019	\$ 00.00
Cancellation letter issued to cancel FBO Project and reduce the agreement total amount for Task Order Six	10/13/2020	(-\$530,712.00)
Task Order Seven Consultant and Engineering Services		\$ 23,890.00
Amendment Two - Second Year Renewal		\$ 00.00
AGREEMENT TOTAL AMOUNT		\$704,534.18

The recommendation is to approve Amendment Two to renew the agreement and approve Task Order Seven to complete a FAA Documented CATEX for the development of approximately 105 acres for a Data Processing Center for Colorado Air and Space Port, in an amount of \$23,890.00. The total not to exceed agreement amount with all Task Orders and Amendments will be \$704,534.18.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Colorado Air and Space Port

ATTACHED DOCUMENTS:

Resolution

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 43			
Cost Center: 4302			
	Object Account	Subledger	Amount
Current Budgeted Revenue FAA Grant:			
Current Budgeted Revenue CDOT Grant:			
Additional Revenue not included in Current Budget:			
Additional Revenue not included in Current Budget:			
Total Revenues:			
	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:	7685		\$23,890.00
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>\$23,890.00</u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING TASK ORDER SEVEN
BETWEEN ADAMS COUNTY AND JVIATION, INC.,
TO PROVIDE CONSULTANT AND ENGINEERING SERVICES FOR
COLORADO AIR AND SPACE PORT

WHEREAS, on October 25, 2016, the Board of County Commissioners approved an agreement with Jviation, Inc., to provide on-call Consultant and Engineering Services, on a task order basis, for Colorado Air and Space Port; and,

WHEREAS, Jviation, Inc., submitted a proposal to complete a Documented Categorical Exclusion (CATEX) for the development of approximately 105 acres for a Data Processing Center at CASP; and,

WHEREAS, Jviation, Inc., agrees to provide the services in the not to exceed amount of \$23,890.00 for a total contract amount of \$704,534.18.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that Task Order Seven between Adams County and Jviation, Inc., to provide Engineering and Consultant Services is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is hereby authorized to sign said Task Order Seven with Jviation, Inc., on behalf of Adams County, after negotiation and approval as to form is completed by the County Attorney's Office.



ADAMS COUNTY
COLORADO

PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Engineering and Consultant Services
FROM: Raymond H. Gonzales, County Manager Alisha Reis, Deputy County Manager Nancy Duncan, Finance and Budget Director Jen Tierney Hammer, Procurement and Contracts Manager
AGENCY/DEPARTMENT: Colorado Air and Space Port
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves Amendment Two to renew the agreement with Jviation, Inc., and approve Task Order Seven to complete a Federal Aviation Administration Documented Categorical Exclusion for the Colorado Air and Space Port.

BACKGROUND:

The Colorado Air and Space Port (CASP) has various projects which need to be accomplished in accordance with current regulations, rules, policies, grant assurances, and Advisory Circulars (ACs) required by the Federal Aviation Administration (FAA) for federal/airside and non-federal landside projects. Each specific project will be issued as a task order and approved by the County, in accordance with the awarded agreement. The total value of the agreement will be based upon the actual number of task orders issued.

The Board of County Commissioners approved an agreement on October 25, 2016, to Jviation, Inc., to provide Engineering and Consultant Services. The original agreement allowed for three years and two one-year renewal options. CASP is requesting to exercise the second and final renewal option with Jviation, Inc. Task Order Seven is to complete a FAA Documented Categorical Exclusion (CATEX) for the development of approximately 105 acres for a Data Processing Center at CASP.

The Agreement breakdown is as follows:

Original Task Order Agreement Amount for Consultant and Engineering Services		\$ 0.00	
		Approval Date	Dollar Amount
Task Order One	Consultant and Engineering Services	03/01/2017	\$119,371.00
Task Order Two	Consultant and Engineering Services (Cancelled)	02/21/2018	\$ 00.00
Task Order Three	Consultant and Engineering Services	08/17/2018	\$ 17,045.00
Task Order Four	Consultant and Engineering Services	04/09/2019	\$ 89,113.00
Task Order Five	Consultant and Engineering Services	05/10/2019	\$ 21,160.00
Task Order Six	Consultant and Engineering Services	10/01/2019	\$964,667.18

Amendment One - First Year Renewal	12/03/2019	\$ 00.00
Cancellation letter issued to cancel FBO Project and reduce the agreement total amount for Task Order Six	10/13/2020	(-\$530,712.00)
Task Order Seven Consultant and Engineering Services		\$ 23,890.00
Amendment Two - Second Year Renewal		\$ 00.00
AGREEMENT TOTAL AMOUNT		\$704,534.18

The recommendation is to approve Amendment Two to renew the agreement and approve Task Order Seven to complete a FAA Documented CATEX for the development of approximately 105 acres for a Data Processing Center for Colorado Air and Space Port, in an amount of \$23,890.00. The total not to exceed agreement amount with all Task Orders and Amendments will be \$704,534.18.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Colorado Air and Space Port

ATTACHED DOCUMENTS:

Resolution

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 43			
Cost Center: 4302			
	Object Account	Subledger	Amount
Current Budgeted Revenue FAA Grant:			
Current Budgeted Revenue CDOT Grant:			
Additional Revenue not included in Current Budget:			
Additional Revenue not included in Current Budget:			
Total Revenues:			
	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:	7685		\$23,890.00
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>\$23,890.00</u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING AMENDMENT TWO BETWEEN
ADAMS COUNTY AND JVIATION, INC.,
TO PROVIDE CONSULTANT AND ENGINEERING SERVICES

WHEREAS, on October 25, 2016, the Board of County Commissioners approved a three-year agreement with Jviation, Inc., to provide Consultant and Engineering Services on a task order basis; and,

WHEREAS, the agreement allows for two additional one-year renewals; and,

WHEREAS, Adams County and Jviation, Inc., mutually agree to renew the agreement for Consultant and Engineering Services on a task order basis for the final renewal year.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that Amendment Two to the Agreement between Adams County and Jviation, Inc., to provide Consultant and Engineering Services is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is authorized to sign Amendment Two with Jviation, Inc., on behalf of Adams County, after negotiation and approval as to form is completed by the County Attorney's Office.



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Translation Services
FROM: Raymond H. Gonzales, County Manager Alisha Reis, Deputy County Manager Nancy Duncan, Budget and Finance Director Jen Tierney Hammer, Procurement and Contracts Manager
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves an agreement with HolaDoctor Inc., and AVP Translations, LLC for Translation Services.

BACKGROUND:

Adams County Human Services Department often encounters individuals with language barriers who are unable to read, write or speak English and/or are deaf or hearing impaired. To better assist this population, face to face interpretation and translation services are required to support the diverse culture of Adams County's community who speak different languages.

A formal Request for Proposal was completed on August 11, 2020 for a qualified vendor to provide Translation Services.

The proposals were evaluated on the following criteria:

- Responsiveness and overall merit of the application
- Agency experience
- Capacity to provide proposed services to address the needs of clients
- Availability to provide culturally competent services
- Availability of services/programmatic need

After a thorough review, the evaluation team recommends a four-year agreement, to coincide with the expiration date of all other existing block agreements ending June 30, 2024 with the following providers:

Contractor	Annual Amount Requested Per Year	Total amount for 4-year Agreement
HolaDoctor Inc.	\$200,000.00	\$800,000.00
AVP Translations, LLC	\$150,000.00	\$600,000.00

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Human Services Department, Children and Family Services Division

ATTACHED DOCUMENTS:

Resolution

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 15
Cost Center: 99915, Various

	Object Account	Subledger	Amount
Current Budgeted Revenue:	99915.5755		\$50,239,790
Additional Revenue not included in Current Budget:			
Total Revenues:			<u>\$50,239,790</u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:	Various.7645		\$6,078,100
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>\$6,078,100</u>

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING AN AGREEMENT WITH
AVP TRANSLATIONS LLC FOR TRANSLATION SERVICES

WHEREAS, AVP Translations, LLC submitted a proposal on July 31, 2020, to provide Translation Services for the Human Services Department, Children and Family Services Division; and,

WHEREAS, after a thorough evaluation it was deemed that AVP Translations, LLC was qualified to provide Translation Services; and,

WHEREAS, AVP Translations, LLC agrees to provide Translation Services over the next four years in the annual not to exceed amount of \$150,000.00; and,

WHEREAS, this program is funded 80/20 under the BLOCK Services Program, 80% paid by the State and a 20% County match.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the agreement with AVP Translations, LLC to provide Translation Services is hereby approved.

BE IT FURTHER RESOLVED, that the Chair is hereby authorized to sign the agreement with AVP Translations, LLC after negotiation and approval as to form is completed by the County Attorney's Office.



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Translation Services
FROM: Raymond H. Gonzales, County Manager Alisha Reis, Deputy County Manager Nancy Duncan, Budget and Finance Director Jen Tierney Hammer, Procurement and Contracts Manager
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves an agreement with HolaDoctor Inc., and AVP Translations, LLC for Translation Services.

BACKGROUND:

Adams County Human Services Department often encounters individuals with language barriers who are unable to read, write or speak English and/or are deaf or hearing impaired. To better assist this population, face to face interpretation and translation services are required to support the diverse culture of Adams County's community who speak different languages.

A formal Request for Proposal was completed on August 11, 2020 for a qualified vendor to provide Translation Services.

The proposals were evaluated on the following criteria:

- Responsiveness and overall merit of the application
- Agency experience
- Capacity to provide proposed services to address the needs of clients
- Availability to provide culturally competent services
- Availability of services/programmatic need

After a thorough review, the evaluation team recommends a four-year agreement, to coincide with the expiration date of all other existing block agreements ending June 30, 2024 with the following providers:

Contractor	Annual Amount Requested Per Year	Total amount for 4-year Agreement
HolaDoctor Inc.	\$200,000.00	\$800,000.00
AVP Translations, LLC	\$150,000.00	\$600,000.00

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Human Services Department, Children and Family Services Division

ATTACHED DOCUMENTS:

Resolution

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 15
Cost Center: 99915, Various

	Object Account	Subledger	Amount
Current Budgeted Revenue:	99915.5755		\$50,239,790
Additional Revenue not included in Current Budget:			
Total Revenues:			<u>\$50,239,790</u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:	Various.7645		\$6,078,100
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>\$6,078,100</u>

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING AN AGREEMENT WITH
HOLADOCTOR, INC. FOR TRANSLATION SERVICES

WHEREAS, HolaDoctor, Inc. submitted a proposal on July 31, 2020, to provide Translation Services for the Human Services Department, Children and Family Services Division; and,

WHEREAS, after a thorough evaluation it was deemed that HolaDoctor Inc., was qualified to provide Translation Services; and,

WHEREAS, HolaDoctor Inc., agrees to provide Translation Services over the next four years in the annual not to exceed amount of \$200,000.00; and,

WHEREAS, this program is funded 80/20 under the BLOCK Services Program, 80% paid by the State and a 20% County match.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the Agreement with HolaDoctor, Inc. to provide Translation Services is hereby approved.

BE IT FURTHER RESOLVED, that the Chair if the Board of County Commissioners is hereby authorized to sign the agreement with HolaDoctor, Inc. after negotiation and approval as to form is completed by the County Attorney's Office.



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Nurse Support Program
FROM: Raymond H. Gonzales, County Manager Alisha Reis, Deputy County Manager Nancy Duncan, Budget & Finance Director Jennifer Tierney Hammer, Procurement and Contracts Supervisor
AGENCY/DEPARTMENT: Adams County Human Service Department, Division of Children and Family Services
HEARD AT STUDY SESSION ON: N/A
AUTHORIZATION TO MOVE FORWARD: <input type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves an agreement with Tri-County Health Department for a Nurse Support Program for the Adams County Human Service Department, Division of Children and Family Services.

BACKGROUND:

The Children and Family Services Division currently has a Nurse Support Program which provides weekly to bi-weekly nurse home-based services to families referred during the assessment period of a case with the Children and Family Services Division. This program assess and address the needs of families by offering advocacy and strengths-based education.

A formal request for proposal was posted on BidNet for a Nurse Support Program for Early Childhood Services and in May of 2019, the Board of County Commissioners approved the Nurse Support Program agreement with Tri-County Health. The initial agreement was awarded using CORE funding which allows the Children and Family Services Department to provide services when there is an open welfare case. The Children and Family Services Division received Federal Temporary Assistance for Needy Families (TANF) Block Grant Funds which will allow the division to expand the Nursing Services Program to clients who do not have an open child welfare case.

The agreement will breakdown as follows:

Amount Requested for Year 1	\$334,804.00
Amount Requested for Year 2	\$334,804.00
Amount Requested for Year 3	\$334,804.00
Amount Requested for Year 4	\$334,804.00
Total Contract Amount Requested	\$1,339,216.00

The recommendation is to approve an agreement using the TANF Block Grant Funds to expand the program in the not to exceed amount of \$334,804.00 per approved budget year for a total not to exceed agreement amount of \$1,339,216.00

This agreement will be 85% through State/TANF funding with a 15% through Adams County Match.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Children and Family Services

ATTACHED DOCUMENTS:

Resolution

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 15
Cost Center: 99915, Various

	Object Account	Subledger	Amount
Current Budgeted Revenue:	99915.5755		\$50,239,790
Additional Revenue not included in Current Budget:			
Total Revenues:			<u>\$50,239,790</u>

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:	Various, 7645		\$6,078,100
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:			
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>\$6,078,100</u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING AN AGREEMENT BETWEEN ADAMS COUNTY AND TRI-
COUNTY HEALTH DEPARTMENT FOR THE NURSE SUPPORT PROGRAM FOR EARLY
CHILDHOOD SERVICES

WHEREAS, Tri-County Health Department submitted a proposal on December 20, 2018, to provide the Nurse Support Program for Early Childhood Services for the Human Services Department, Children and Family Services Division of Adams County; and,

WHEREAS, after a thorough evaluation it was deemed that Tri-County Health Department was qualified to provide the Nurse Support Program for Early Childhood Services; and,

WHEREAS, Tri-County Health Department agrees to provide the expansion of the Nurse Support Program for Early Childhood Services over the next four years in the annual not to exceed amount of \$334,804.00 based upon yearly budget approval; and,

WHEREAS, the program is being funded eighty-five (85%) percent by TANF Block Grant Funds, with Adams County responsible for the remaining fifteen (15%) percent.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the agreement with Tri-County Health Department to provide the Nurse Support Program for Early Childhood Services is hereby approved.

BE IT FURTHER RESOLVED, that the Chair of the Board of County Commissioners is hereby authorized to sign the agreement with Tri-County Health Department on behalf of the County after negotiation and approval as to form is completed by the County Attorney's Office.



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Guaranteed Maximum Price for South Platte Crossing Renovation
FROM: Raymond H. Gonzales, County Manager Alisha Reis, Deputy County Manager Nancy Duncan, Budget & Finance Director Jennifer Tierney Hammer, Procurement & Contracts Manager
AGENCY/DEPARTMENT: Facilities and Fleet Management Department
HEARD AT STUDY SESSION ON: October 27, 2020
AUTHORIZATION TO MOVE FORWARD: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves an agreement with MW Golden Constructors for the Guaranteed Maximum Price for the South Platte Crossing Renovation Project.

BACKGROUND:

The South Platte Crossing Building, formerly the Human Services Building in Commerce City, is currently vacant on the floors owned by Adams County. Renovation of the vacant floors will allow the Adams County Clerk & Recorder to relocate from the Sheriff's Substation/Service Center Building. This move will allow for better operations and the opportunity for expansion in the new building. A portion of the renovation on the first floor and basement will accommodate the functions of the Motor Vehicle and Elections Divisions and will provide better public access and workflow efficiency. The renovation will also include a common breakroom, conference room areas, and additional storage space for expansion, and future use.

On December 20, 2019, the County received five (5) responses for Construction Manager / General Contractor (CMGC) Services for the South Platte Crossing Building Renovation from the following pre-qualified firms:

- MW Golden Constructors
- Alliance Construction
- Taylor Kohrs, Inc.
- Krische Construction
- Roche Constructors, Inc.
- Saunders Construction

The Proposals were evaluated on the following criteria:

- Professionalism
- Understanding of the Project
- General Project Experience
- Similar Project Experience
- Construction Team.

After a thorough evaluation, the evaluation team determined MW Golden Constructors provided the best response for the County for CMGC Services.

MW Golden Constructors has proposed a Guaranteed Maximum Price (GMP) in the amount of \$2,535,092.00, plus \$14,000.00 for pre-construction services for a total GMP of \$2,549,092.00 for the South Platte Crossing Building Renovation Project. This project is scheduled for completion by July 2021.

The project breaks down as follows:

Pre-Construction Fee	\$	14,000.00
GMP	\$	<u>2,535,092.00</u>
Total GMP	\$	2,549,092.00

It is recommended that the Board of County Commissioners approves an agreement with MW Golden Constructors for the South Platte Crossing Renovation Project for the Guaranteed Maximum Price of \$2,549,092.00.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Facilities and Fleet Management Department

ATTACHED DOCUMENTS:

Resolution

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 04
Cost Center: 3098

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			

	Object Account	Subledger	Amount

Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:	9055	3098.1904	\$2,535,092
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<hr/>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING AN AGREEMENT BETWEEN ADAMS COUNTY AND
MW GOLDEN CONSTRUCTORS FOR THE SOUTH PLATTE CROSSING
BUILDING RENOVATION PROJECT

WHEREAS, on December 20, 2019, MW Golden Constructors submitted a proposal for Construction Manager / General Contractor (CMGC) Services for the South Platte Crossing Building Renovation Project; and,

WHEREAS, after thorough evaluation it was determined that MW Golden Constructors provided the best value for the County; and,

WHEREAS, MW Golden Constructors proposed a Guaranteed Maximum Price for construction in the amount of \$2,535,092.00, plus \$14,000.00 for pre-construction services for a total Guaranteed Maximum Price of \$2,549,092.00.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that the agreement to MW Golden Constructors to provide CMGC Services for the South Platte Crossing Building Renovation is hereby approved.

BE IT FURTHER RESOLVED that the Chair of the Board of County Commissioners is hereby authorized to sign the agreement, on behalf of Adams County, after negotiation and approval as to form is completed by the County Attorney's Office.



PUBLIC HEARING AGENDA ITEM

DATE OF PUBLIC HEARING: November 10, 2020
SUBJECT: Additional Design Services for the Coroner's Facility Improvements
FROM: Raymond H. Gonzales, County Manager Alisha Reis, Deputy County Manager Nancy Duncan, Budget & Finance Director Jennifer Tierney Hammer, Procurement & Contracts Manager
AGENCY/DEPARTMENT: Facilities and Fleet Management Department
HEARD AT STUDY SESSION ON: August 22, 2020
AUTHORIZATION TO MOVE FORWARD: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
RECOMMENDED ACTION: That the Board of County Commissioners approves Amendment Two to the agreement with Roth Sheppard Architects, LLP, for Additional Design Services for the Coroner's Facility Improvements.

BACKGROUND:

The Coroner's Office was granted budget to conduct a Programming Study for a potential renovation and/or new building. The Programming Statement found that the Coroner's Facility has reached storage and autopsy capacity based on the current population. As the County is projected to grow significantly over the next decades, there is a clear gap in the ability of the Coroner's Office to provide the required services. At a 2019, Study Session the Board of County Commissioners provided direction for 'short term' facility improvements.

In 2018, Roth Sheppard Architects, LLP, was awarded an agreement for the Programming Study and initial design work for the Coroner's Facility. Initial design work began in late 2019, which produced multiple design options.

The updated design scope created a dual use for the Coroner's Facility that included the Probation Division to occupy a portion of the building which increased the project budget and cost. The additional design services will improve administrative areas, generate additional workspace and amenities for Coroner's staff, available growth spaces, and improve workflow efficiencies. Furthermore, this updated scope addressed the replacement of major Mechanical, Electrical, Plumbing (MEP) systems which were already nearing end of life.

Contract	Description	BOCC Approved	Amount
Original Agreement	Program Statement for Decision Options	6/22/2018	\$86,147.00
Amendment One	Initial Design Services	12/10/2019	\$308,000.00
Amendment One	Credit due to Change in Scope	8/22/2020	(\$247,800.00)
Amendment Two	Updated Design Services		\$769,100.00
Total Agreement Amount			\$915,447.00

The Facilities and Fleet Management Department recommends that the Board of County Commissioners approves Amendment Two with Roth Sheppard Architects, LLP, for additional design services for the Coroner’s Facility Improvements in the amount of \$769,100.00. There is a credit of \$247,800.00 due to the change in scope for a not to exceed amount of \$521,300.00 for Amendment Two and a total agreement amount of \$915,447.00.

AGENCIES, DEPARTMENTS OR OTHER OFFICES INVOLVED:

Facilities and Fleet Management Department

ATTACHED DOCUMENTS:

Resolution

FISCAL IMPACT:

Please check if there is no fiscal impact . If there is fiscal impact, please fully complete the section below.

Fund: 01
Cost Center: 3098

	Object Account	Subledger	Amount
Current Budgeted Revenue:			
Additional Revenue not included in Current Budget:			
Total Revenues:			

	Object Account	Subledger	Amount
Current Budgeted Operating Expenditure:			
Add'l Operating Expenditure not included in Current Budget:			
Current Budgeted Capital Expenditure:	9055	W30982007	\$2,000,000
Add'l Capital Expenditure not included in Current Budget:			
Total Expenditures:			<u>\$2,000,000</u>

New FTEs requested: YES NO

Future Amendment Needed: YES NO

Additional Note:

BOARD OF COUNTY COMMISSIONERS FOR
ADAMS COUNTY, STATE OF COLORADO

RESOLUTION APPROVING AMENDMENT TWO TO AGREEMENT BETWEEN ADAMS
COUNTY AND ROTH SHEPPARD ARCHITECTS, LLP, FOR ADDITIONAL DESIGN
SERVICES FOR THE CORONER'S FACILITY IMPROVEMENTS

WHEREAS, on June 22, 2018, Roth Sheppard Architects, LLP, was awarded an agreement to provide Design Services and a Programming Study for the Coroner's Office; and,

WHEREAS, Roth Sheppard Architects, LLP, proposed additional design services for the Coroner's Facility Improvements in the amount of \$769,100.00. There is a credit of \$247,800.00 due to design scope change which produces a not to exceed amount of \$521,300.00.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners, County of Adams, State of Colorado, that Amendment Two to Agreement Between Adams County and Roth Sheppard Architects, LLP, for Additional Design Services for the Coroner's Facility Improvements is hereby approved.

BE IT FURTHER RESOLVED, that the Chair is hereby authorized to sign said Amendment Two to the agreement with Roth Sheppard Architects, LLP, on behalf of Adams County, after negotiation and approval as to form is completed by the County Attorney's Office.



COMMUNITY AND ECONOMIC DEVELOPMENT
DEPARTMENT

CASE NO.: PRC2019-00020
CASE NAME: BRANNAN SAND & GRAVEL

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**COMMUNITY AND ECONOMIC DEVELOPMENT
DEPARTMENT STAFF REPORT**

Board of County Commissioners

November 10, 2020

Case No.: PRC2019-00020	Case Name: Brannan Sand & Gravel
Owner's Name:	Pit 10, LLC
Applicant's Name:	Fred Marvel, Brannan Sand & Gravel
Applicant's Address:	2500 E. Brannan Way, Denver, CO 80229
Location of Requests:	2601 W. 60 th Avenue
Nature of Requests:	<ol style="list-style-type: none"> 1. Conditional use permit application to allow recycling operations in the Industrial-2 and Industrial-3 zone districts; 2. Conditional use permit application to allow accessory outdoor storage exceeding ten acres in the Industrial-2 and Industrial-3 zone districts; 3. Conditional use permit application to allow stacking of materials up to fifty (50) feet in height and above the height of any screen fencing.
Zone Districts:	Industrial-2, Industrial-3
Comprehensive Plan:	Activity Center
Site Size:	23.6 acres
Proposed Uses:	Heavy Manufacturing or Processing
Existing Use:	(Unpermitted) Heavy Manufacturing or Processing
Hearing Date(s):	<p>PC: July 9, 2020 / 6:00 p.m.</p> <p>BOCC: November 10, 2020 /9:30 a.m.</p>
Report Date:	July 10, 2020
Case Manager:	Greg Barnes
PC Recommendation:	DENIAL with 14 Findings-of-Fact

SUMMARY OF APPLICATION

Background

Brannan Sand & Gravel is requesting three conditional use permits for a recycling facility use with accessory outdoor storage exceeding ten acres and an outdoor material stacking of up to

fifty (50) feet. The 23.6-acre subject property is located at 2601 W. 60th Avenue. The site is within both the Industrial-2 (I-2) and Industrial-3 (I-3) zone districts.

The applicant has utilized this property without a permit for over 25 years for the processing, storage, and sale of recycled asphalt and concrete material. The material is stockpiled at the site and routed throughout the Denver metropolitan area for various construction projects. In October 1995, Adams County sent a notice of violation informing the property owner that the use was not allowed without a conditional use permit. Subsequently, no conditional use permit was issued, and the facility continued to operate out of compliance with county regulations.

In June 2012, the Board of County Commissioners approved a conditional use permit at 5880 Lipan Street for Brannan Sand & Gravel that allowed the outdoor storage of aggregate material exceeding 10 acres and up to 35 feet in height. As part of that approval, a condition was included to require the operations at the subject property of this request to cease and for the site to be vacated by June 2019. As of July 2020, the applicant has not ceased operations nor vacated the site.

In May 2017, an inspection of the site was conducted by Adams County, the Tri-County Health Department, and the Colorado Division of Public Health & Environment. The team found: that the facility was operating without proper permitting; that the site was used for outdoor storage that was not associated with the business; that the site was being used for a 30-foot tall pile of shingles which constituted an unpermitted disposal of solid waste and potentially may have included asbestos shingles; that the operation had resulted in an illicit discharge into the Clear Creek; and that the facility was storing and stockpiling materials on an adjoining property owned by Adams County.

Over the next few months, Brannan Sand & Gravel began to remedy specific violations discovered at the May 2017 inspection. A settlement agreement was reached in November 2017 between Brannan Sand & Gravel and Adams County. The agreement formalized a timeline for the site to come into compliance. Although the terms of the agreement were initially met by the applicant, a request for extension of deadlines was granted in February 2018. The final step for the applicant to fully comply with the terms of this agreement is approval of the subject conditional use permits. The agreement required that these approvals happen by June 2019. At that time, the County issued a notice of noncompliance to the applicant. The subject applications were received in December 2019.

Site Characteristics and Environmental Considerations:

The subject property has direct access to West 60th Avenue along its southern boundary and approximately 1,700 linear feet of frontage on the public roadway. The site is located approximately 800 feet to the northeast of the intersection of Federal Boulevard and W. 60th Avenue. Federal Boulevard has ramp access onto Interstate-76 just southwest of the site giving the site relatively easy access to the federal highway system.

The site consists of 23.6 acres, of which approximately 90% is designated with I-2 zoning and the remainder is designated with I-3 zoning, which is located on the western edge of the

property. Although there are existing stockpiles on the site that are 30-50 feet in height, the property does not appear to have significant natural terrain.

The site borders the Clear Creek to the north and west. The entire site is impacted by floodplain according to the Federal Emergency Management Agency (FEMA). Approximately 11 acres of the northern and western portions of the site is located within the floodway. This designation by FEMA means that the land area must be reserved to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height. Reservation of the areas is necessary to ensure that there are no increases in upstream flood elevations. The remainder of the property on the southern and eastern portions of the site are within the 100-year floodplain. These areas have a 1% greater chance of flooding each year. Two lakes are located just to the northwest of the subject property.

For the aggregate material to be stored in the floodplain, a Floodplain Use Permit is required. Brannan Sand & Gravel has applied for this permit, which is currently under review by the Mile High Flood District (MHFD). MHFD is developing an updated flood map for this area of Clear Creek that is currently being reviewed by FEMA. The revisions to the flood map are based on modeling that show a wider floodway in the area, which includes the area where the proposed stockpiles are located. To obtain an approved Floodplain Use Permit, Brannan will be required to demonstrate that they can implement measures to mitigate the effects of the stockpiles in the floodplain.

Surrounding Zoning Designations and Existing Use Activity:

Northwest PUD / I-3 Industrial / Clear Creek	North PUD/I-2/I-3 Industrial / Clear Creek	Northeast I-3 Clear Creek
West PUD / I-1/ I-3 Commercial / Industrial	Subject Property I-2/I-3 Recycling Facility (Out of Compliance)	East I-3 Lake / Right-of-Way
Southwest I-3 RTD Rail Station	South I-2/I-3 Vacant	Southeast I-3 I-76 Right-of-Way

Compatibility with the Surrounding Land Uses:

The existing land uses in the area consist mostly of industrial and vacant properties. In 2019, the Clear Creek at Federal Commuter Rail Station became operational and is an important gateway to Southwest Adams County; there are 300 parking spaces intended to serve those who use the Gold Line to access Union Station in Downtown Denver to the south or Wheat Ridge to the west. The introduction of the nearby commuter rail station has resulted in an increase in pedestrian traffic and is expected to serve as a catalyst for more transit-oriented development in the area. The applications for recycling facilities, outdoor storage, and stockpiles of material reaching up to 50 feet in height are incompatible with the surrounding area and particularly the highly trafficked commuter rail station. The request for stockpiles of up to 50 feet are likely to become

windswept and create hazards for pedestrians in the area, while also being clearly visible from the existing Federal Station.

Future Land Use Designation/Goals of the Comp-Plan for the Area

The future land use designation on the property is Activity Center. Per Chapter 5 of the County’s Comprehensive Plan, the Activity Center future land use designated areas are intended to allow high-intensity residential, retail, and office development. The Activity Center designated areas are intended to increase employment and increase the tax base, while creating a mix of uses to create a pedestrian environment that is supportive of transit.

The subject property falls within the Southwest Area Plan, the Federal Boulevard Framework Plan, and the Clear Creek Valley Transit Oriented Development Plan. The vision for the Clear Creek at Federal Station is to create a new, vibrant, transit-oriented community amenity within walking distance of the transit station. New retail, employment, entertainment and living opportunities within the envisioned Village Center will serve the needs of the existing community and maintain the area as an employment center for Adams County. The area shall maintain and enhance existing commercial corridors and existing residential neighborhoods. Development in the area is to create new connections with surrounding residential and commercial areas and revitalize older commercial, industrial, or underutilized areas. Mixed-use development and sustainable practices will be encouraged in the Clear Creek at Federal Station. Open space and recreational opportunities will be an important part of the area’s development. The activity center is expected to enhance the area’s role as a gateway to Southwest Adams County. Planning guidelines for this Area Plan state that the County will discourage land use patterns in transit corridors and around transit stations that may preclude future transit-oriented development. The plan also specifically discourages land consumptive uses related to agriculture or heavy industry such as outdoor storage.

Based on the Adams County Comprehensive Plan’s future land designation and the goals of the County’s Clear Creek Valley Transit Oriented Development Plan, the subject application does not conform to the County’s long-term goals for the region. In addition, the proposed applications may impede future development in the area for high-density mixed-use development with an abundance of open space and recreational options.

Development Standards and Regulations Requirements:

Per Section 3-07-01 of the Adams County Development Standards and Regulations, a conditional use permit is required for recycling facilities in the I-2 and I-3 zone districts. Section 4-10-02-04-09 requires conditional use permits for accessory outdoor storage in excess of ten acres in the I-2 and I-3 zone districts, and for the stacking of materials taller than the height of the required screen fencing. The three applications filed by the applicant are in accordance with these sections.

Chapter 4 of the County’s Development Standards and Regulations sets forth specific performance standards to ensure that uses mitigate negative impacts to surrounding areas by requiring site plans that meet aesthetic and functionality requirements to ensure that the use of a property is not detrimental to or incompatible with the surrounding area.

Section 4-10-02-04-07 of the County's Development Standards and Regulations outlines specific performance standards for the recycling facilities use. These standards require an eight-foot-tall screen or security fence to enclose the outdoor storage. The standards require control plans to abate both nuisance and the traffic. The facility will also be required to maintain recordkeeping detailing amounts and types of material stockpiled at the site

Section 4-10-02-04-09 of the County's Development Standards and Regulations outlines specific performance standards for the outdoor storage use. These standards also require all outdoor storage to be enclosed by a screen fence not to exceed eight feet in height. All outdoor storage shall consist of nonhazardous materials as determined by the Colorado Department of Public Health and Environment. All outdoor storage shall be designed with adequate access areas and shall meet all requirements of the local fire district.

Parking requirements are discussed in Section 4-12 of the Adams County Development Standards. All access driveways and required parking spaces are required to be covered with asphalt or concrete. Loading zones are also discussed in these requirements and shall be designed to prevent queueing of traffic on to public roadways.

The site will be expected to conform to the Adams County Development Standards for landscaping. Per Section 4-16-07, a minimum of 10% of the overall site area (approximately 2.4 acres) shall be designated for landscaping. Of this required landscape area, at least 50% (1.2 acres) is to be located along public roadways. Therefore, the applicant shall be expected to provide a 30-foot-wide streetscape buffer along the portions of the property fronting W. 60th Avenue. An additional 1.2 acres of open landscaped area shall be spread throughout the site.

Per Section 4-13 of the Development Standards, the applicant shall conform to the County's Operational Standards. These regulations prevent nuisance to the surrounding properties. The proposed recycling facility and associated outdoor storage will be expected to conform to these regulations to mitigate lighting, vibration, noise, and dust.

The applicant has submitted a site plan and landscape plan that partially conforms to the performance standards for the use. Overall, the proposed development can be improved to better conform with these standards. Should the Board of County Commissioners indicate that the proposed uses are suitable for the property, staff will recommend a continuance of the request to allow staff more time to ensure compliance with the County's Development Standards and Regulations.

PLANNING COMMISSION UPDATE:

The Planning Commission (PC) considered this case on July 9, 2020 and voted (5-0) to recommend denial of the requests. The applicant's representative spoke at the meeting and provided additional information regarding the historical timeline of the facility. The PC expressed concerns regarding the applicant's history of noncompliance. Other noted concerns were related to the negative impact that the existing facilities may have on future development. The PC also noted that the proposed use could relocate to another site to be operational. There was no one from the public to speak in favor or in opposition to the request.

Staff Recommendations:

Based upon the application, the criteria for approval of a conditional use permit, and a recent site visit, staff recommends denial of the request with 14 findings-of-fact.

Recommended Findings-of-Fact:

1. The conditional use is not permitted in the applicable zone district.
2. The conditional use is inconsistent with the purposes of these standards and regulations.
3. The conditional use will not comply with the requirements of these standards and regulations, including but not limited to, all applicable performance standards.
4. The conditional use is incompatible with the surrounding area, not harmonious with the character of the neighborhood, detrimental to the immediate area, detrimental to the future development of the area, and detrimental to the health, safety, or welfare of the inhabitants of the area and the County.
5. The conditional use permit has not addressed all off-site impacts.
6. The site is unsuitable for the proposed conditional use including adequate usable space, adequate access, and absence of environmental constraints.
7. The site plan for the proposed conditional use will not provide the most convenient and functional use of the lot including the parking scheme, traffic circulation, open space, fencing, screening, landscaping, signage, and lighting.
8. The request for outdoor storage is incompatible with the Adams County Comprehensive Plan, does not comply with the minimum zoning requirements of the zone district in which the Conditional Use Permit is to be granted, and does not comply with all other applicable requirements of the Adams County Development Standards and Regulations.
9. Aesthetic concerns have not been taken into consideration during the site design and placement of the outdoor storage.
10. The request for a recycling facility is incompatible with the Adams County Comprehensive Plan, does not comply with the minimum zoning requirements of the zone district in which the Conditional Use Permit is to be granted, and does not comply with all other applicable requirements of the Adams County Zoning and Subdivision Regulations.
11. The applicant has not documented his ability to comply with the health standards and operating procedures as provided by the Colorado Department of Public Health and Environment, Tri-County Health Department, Fire District, and other relevant agencies.
12. The proposed facility will cause significant traffic congestion or traffic hazards.
13. The request is incompatible with the surrounding area.
14. The site will impact health and welfare of the community based upon specific recycling facility design and operating procedures.

PUBLIC COMMENTS

Notices Sent	Number of Responses
162	2

Property owners and residents within 1,500 feet of the site were notified of the subject request. As of writing this report, staff has received two responses regarding the application. ARMOS Investments expressed concern that the proposed use may have a negative impact on the use of

their property. They wished to remain updated on the proposed timeline of the use, if approved. In addition, staff received one comment from Dan Micek in support of the request.

COUNTY AGENCY COMMENTS

Upon receipt of these applications, staff identified concerns that the requested conditional use permits may not be compatible with the surrounding area. Future development surrounding the Clear Creek at Federal Station may be negatively affected by the proposed stockpile heights and outdoor storage. In addition, staff identified that additional landscaping and screening techniques may improve the application. Although compliance with the County's Development Standards is a criterion for approval, it was noted that full conformance with these standards would not remedy the existing concerns regarding compatibility and land use. Rather than ask the applicant to invest further in an application that will not receive a recommendation of approval, staff proposed scheduling the hearing with a recommendation of denial. Should the Planning Commission and Board of County Commissioners determine that the use may be compatible with surrounding area and will not be a detriment to future development, then staff will ask the Board for a continuance on this case to work with the applicant on engineering and landscaping design of the site.

REFERRAL AGENCY COMMENTS

During the referral process, the Tri-County Health Department identified concern with fugitive dust from the proposed facility. No other concerns were noted from those referral agencies that were notified.

Responding with Concerns:

Tri-County Health Department

Responding without Concerns:

Colorado Department of Natural Resources, Division of Water Resources

Colorado Department of Transportation

City of Arvada

Denver Water

Adams County Fire

Regional Transportation District

Xcel Energy

Notified but not Responding / Considered a Favorable Response:

Adams County Sheriff

Arvada Fire District

Berkeley Neighborhood Group

Berkeley Sanitation District

Century Link

City of Westminster

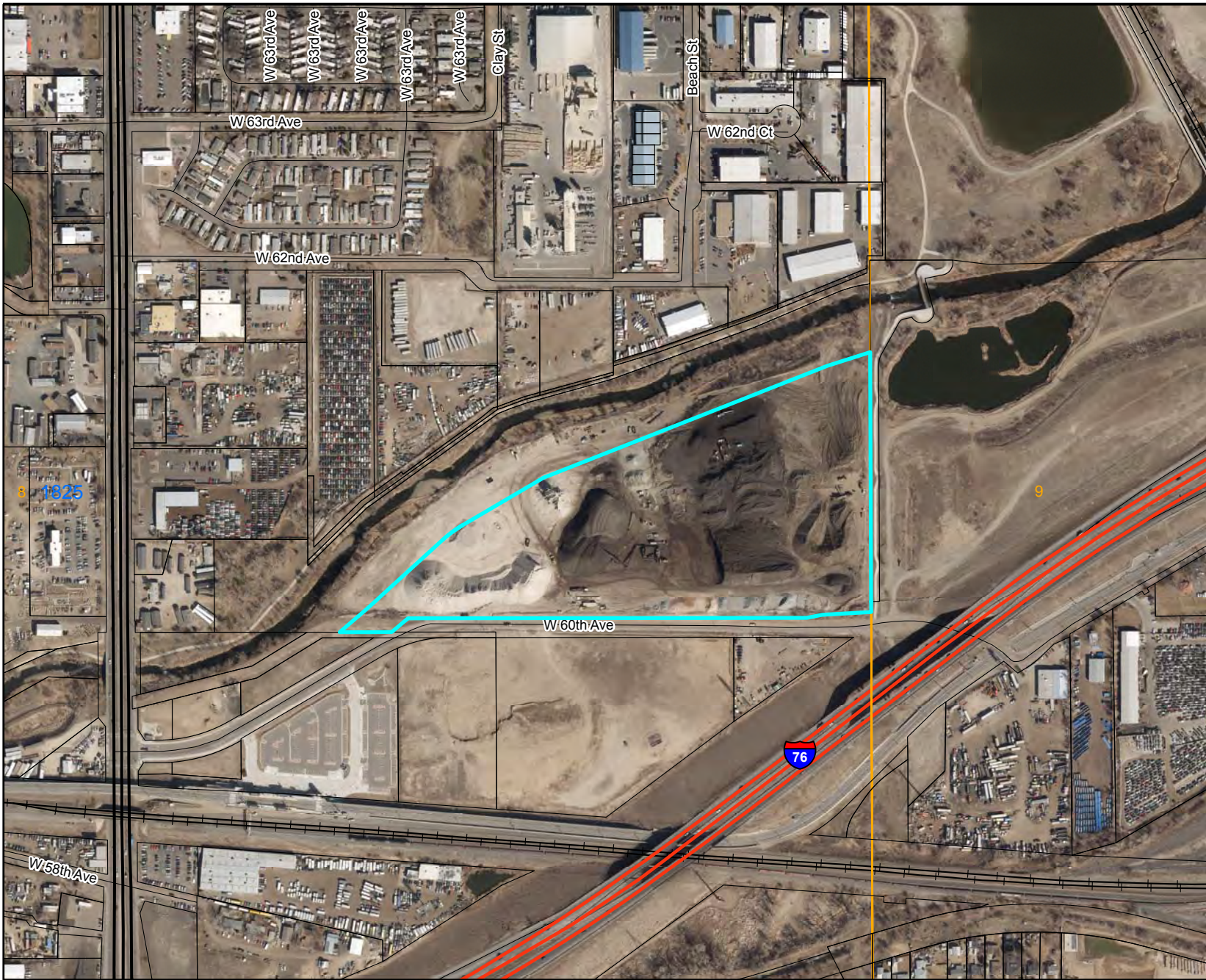
Colorado Geologic Survey

Colorado Division of Mining & Reclamation Safety





Comcast

Crestview Water & Sanitation

Goat Hill Neighborhood
Mapleton School District
Metro Wastewater Reclamation
Mobile Gardens
North Lincoln Water & Sanitation District
North Pecos Water & Sanitation District
Northridge Estates at Gold Run HOA
Pecos Logistics Park Metropolitan District
Perl Mack Neighborhood
Pomponio Terrace Metropolitan District
The TOD Group
Union Pacific Railroad
US Postal Service
US Environmental Protection Agency
Westminster Fire District
Westminster School District #50



Legend

-  Railroad
-  Major Water
-  Zoning Line
-  Sections

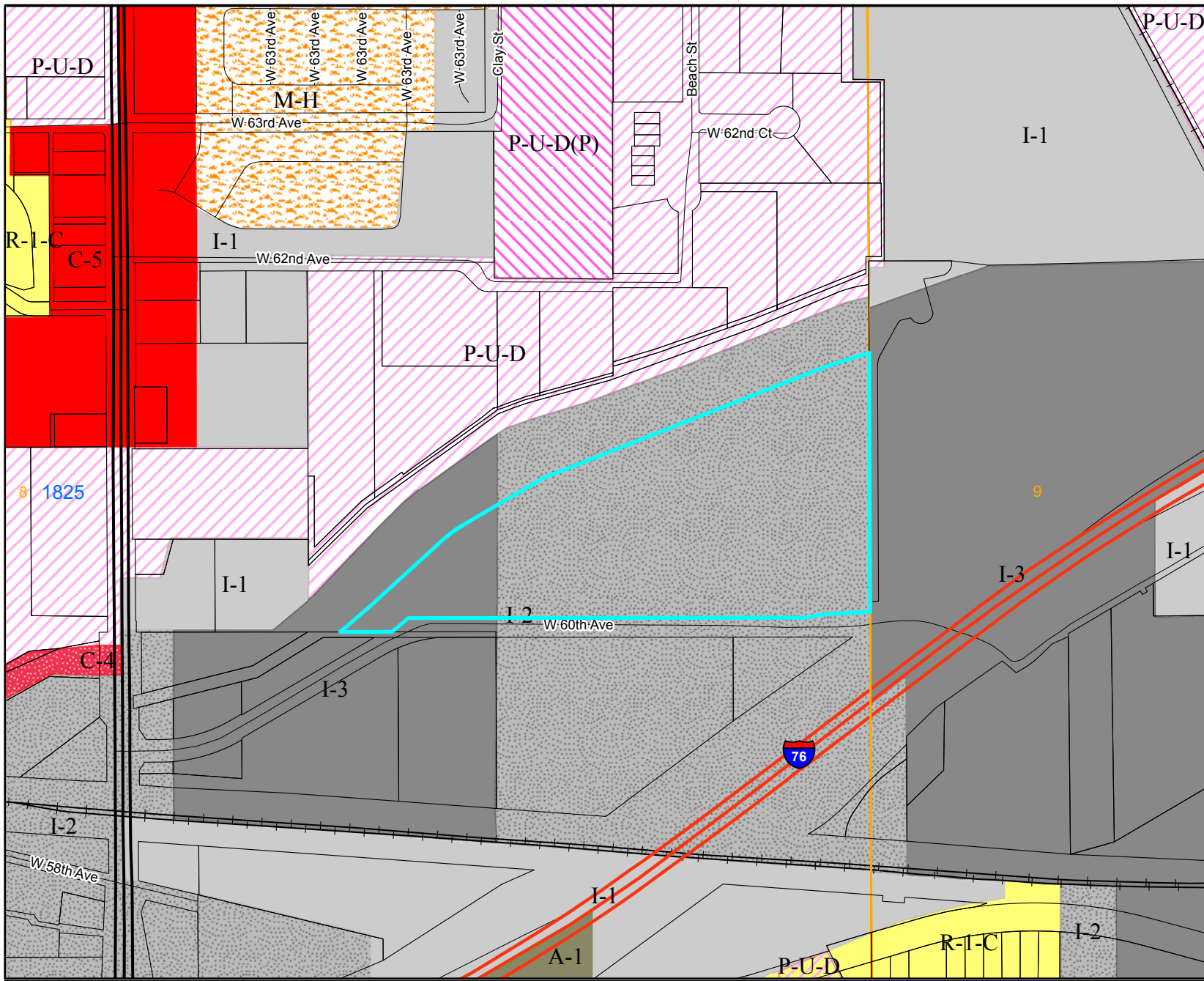
Brannan Sand & Gravel
PRC2019-00020



For display purposes only.

AD. TY

This map is made possible by the Adams County GIS group, which assumes no responsibility for its accuracy



Legend

- Railroad
- Major Water
- Zoning Line
- Sections

Zoning Districts

- A-1
- A-2
- A-3
- R-E
- R-1-A
- R-1-C
- R-2
- R-3
- R-4
- M-H
- C-0
- C-1
- C-2
- C-3
- C-4
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- CO
- PL
- AV
- DIA
- P-U-D
- P-U-D(P)

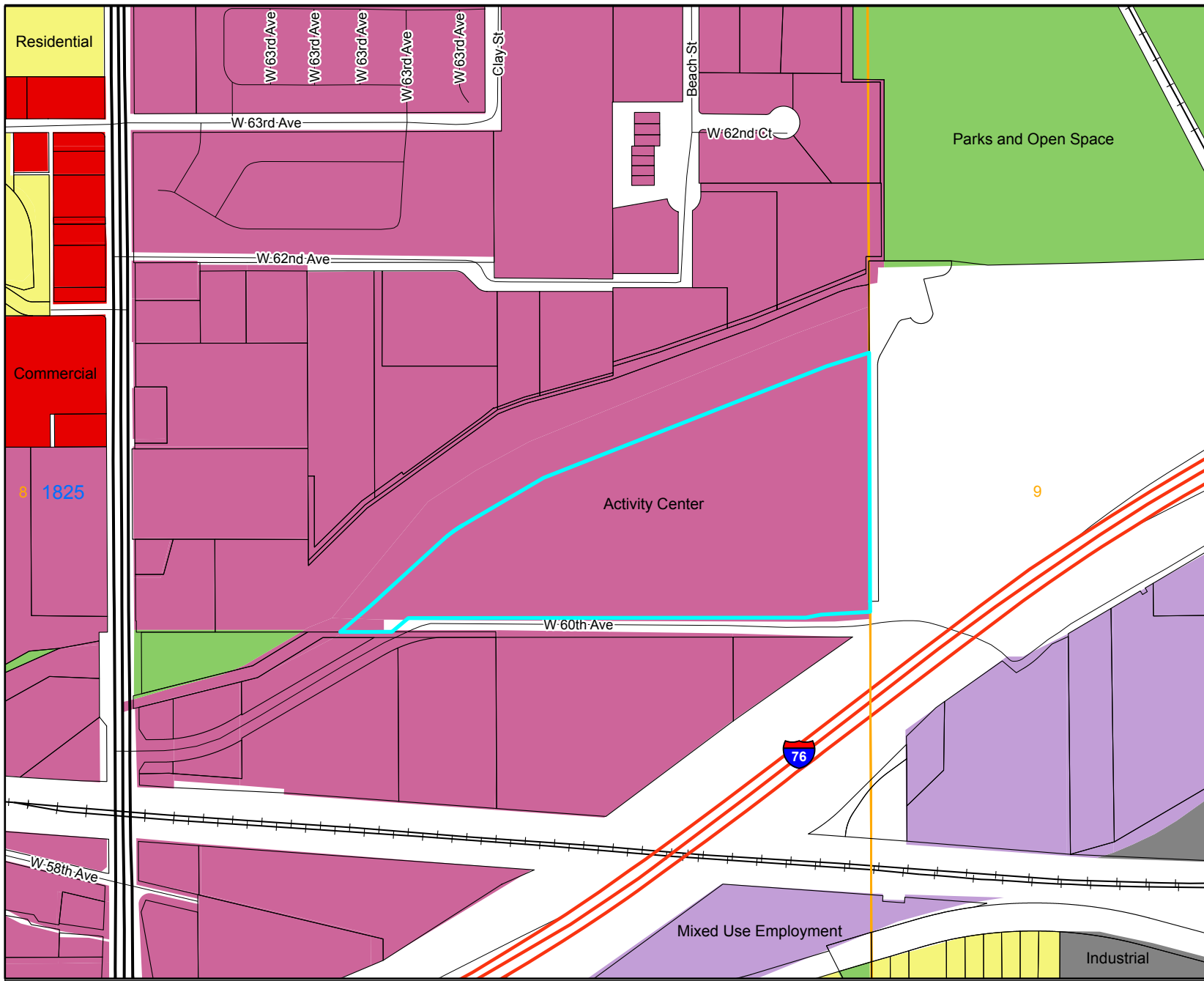
Brannan Sand & Gravel
PRC2019-00020







For display purposes only.

AD TY

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Legend

-  Railroad
-  Major Water
-  Zoning Line
-  Sections

Brannan Sand & Gravel
PRC2019-00020



For display purposes only.

AD. TY

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26 April 2019

Adams County Economic and Community Development
4430 South Adams County Parkway
Brighton, Colorado 80601

Re: Submittal of Land Use Application, Pit 10, 2601 West 60th Avenue

Dear Adams County officials:

On behalf of Pit 10, LLC, please find under this cover an application related to 2601 W. 60th Avenue in unincorporated Adams County.


The Applicant, as Brannan Sand and Gravel, has operated in this area of Adams County for many years, and on the specific subject property for no less than 20 years. The property at 2601 W. 60th Avenue is zoned for industrial use, in the I-2 zone district with a small piece of I-3 zoning at its western edge. Based on Pit 10's recent work with Adams county related to this land – including code enforcement communications and more recently a Conceptual Review Meeting in November 2018 – we agree that formal plan review will alleviate concerns about appropriate site improvements, the scope and timing of transition plans, and the application of County comprehensive plan aspirational goals for the general vicinity.

While the County staff and plans articulate a general desire to redevelop the area, and the Applicant has engaged with experts on this prospect, it is apparent that the regulatory status of 2601 West 60th Avenue as a jurisdictional floodplain is a substantial impediment to any change in the long-term economic use of this site. The site is currently undergoing floodplain analysis, both as part of a larger study of Clear Creek and on a site-specific basis. The immediate site-specific use of the property is under study by ICON Engineering and will be packaged as an Adams County floodplain use permit application as soon as available. The resolution of Clear Creek floodplain mapping is critical to effective long-term grading and drainage plans, as well as identification of riverbank stabilization and channelization opportunities in conjunction with Urban Drainage or other agencies.

The application process for the existing/proposed land use at 2601 West 60th Avenue is intended to define expectations for the immediate future of the site. It is not a redevelopment plan, nor does the Applicant intend to determine the appropriate future use of the property at this time. After careful deliberation, we believe that subdivision and other steps toward redevelopment are most appropriately addressed in a separate process. The current process is directed at assessing compliance with County industrial zoning standards and specifically reviewing operations that will enable and actively manage the transition to future land uses.

It is significant that the site has operated in more or less its present form for many years, with the involvement of Adams County officials along the way. That ongoing use informs our understanding of the terms and application of Adams County regulations, as noted in the attached narrative. But it is more importantly emblematic of Brannan's positive working relationship with the County, which we endeavor to continue. Based on Adams County direction, Brannan has invested nearly \$2 million in grading and material processing work in the last two years, and we have modified operations to reduce stockpile footprint and height. The process envisioned by the enclosed application will allow us to continue in this direction, making operations more compact and compliant with zoning plans.

Thank you in advance for the work of Adams County staff and the boards and commissions.

Sincerely,

Fred Marvel, Manager
for Pit 10, LLC

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF HARRIS KOCHER SMITH.

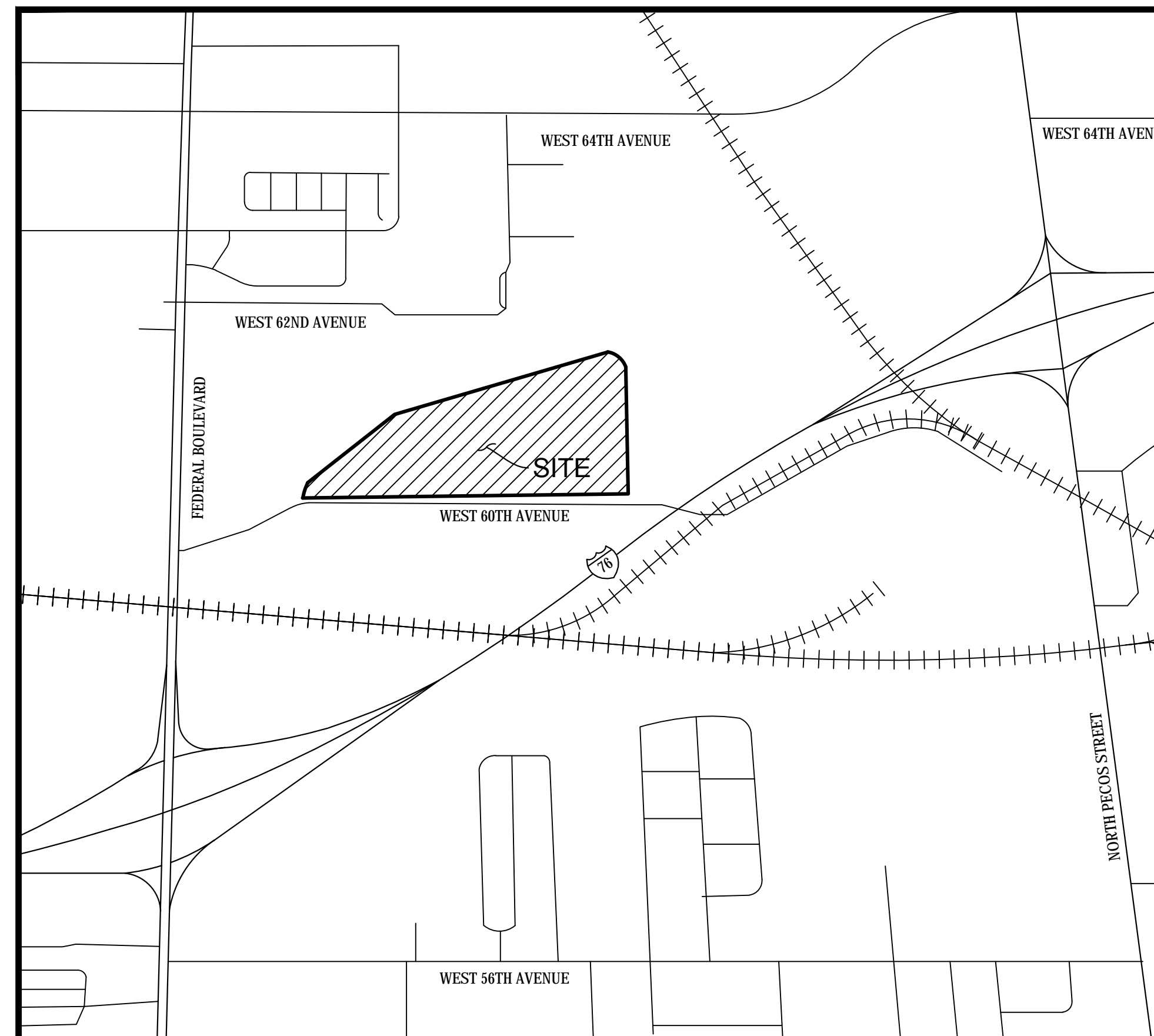
CONDITIONAL USE PERMIT - PIT R

BRANNAN SAND AND GRAVEL
2601 WEST 60TH AVENUE
SITUATED IN THE NORTHEAST CORNER OF SECTION 8,
TOWNSHIP 3 SOUTH, RANGE 68 WEST OF THE 6TH
PRINCIPAL MERIDIAN
COUNTY OF ADAMS, STATE OF COLORADO

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

GENERAL NOTES:

1. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TO SCHEDULE A PRE-CONSTRUCTION MEETING CONTACT THE ADAMS COUNTY CONSTRUCTION INSPECTOR SUPERVISOR AT 720-523-6965.
2. ALL CONCRETE CURB, GUTTER AND WALK MUST BE POURED MONOLITHICALLY USING 4,500 PSI CONCRETE WITH FIBER MESH.
3. ALL MATERIAL SUBMITTALS MUST BE APPROVED, STAMPED AND SIGNED, BY THE ENGINEER OF RECORD AND, SUBMITTED TO THE ADAMS COUNTY CONSTRUCTION INSPECTOR FOR APPROVAL PRIOR TO CONSTRUCTION/INSTALLATION.
4. THE CONTRACTOR IS REQUIRED TO SUBMIT COPIES OF ALL CONCRETE AND ASPHALT TICKETS TO THE ADAMS COUNTY CONSTRUCTION INSPECTOR.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL QUALITY CONTROL TESTING AND, IS REQUIRED TO SUBMIT ALL TEST RESULTS TO THE ADAMS COUNTY CONSTRUCTION INSPECTOR.
6. THE CONTRACTOR IS REQUIRED TO REMOVE A MINIMUM OF TWO (2) FEET OF EXISTING ASPHALT FOR ALL CURB AND GUTTER REPLACEMENT.
7. ALL UTILITY CUTS IN EXISTING STREETS ARE REQUIRED TO BE BACKFILLED WITH FLOWFILL AND, PATCHED WITH A MINIMUM OF 9-INCH ASPHALT PATCH.
8. A COPY OF THE GEOTECHNICAL REPORT SPECIFYING THE PAVEMENT THICKNESS DESIGN MUST BE SUBMITTED FOR REVIEW.
9. PERMITS WILL BE REQUIRED FOR THE INSTALLATION OF ALL UTILITIES. THE DEVELOPER/CONTRACTOR/ENGINEER, MUST SUPPLY THE LINEAL FOOTAGES AND THE NUMBER OF SERVICE CUTS REQUIRED FOR ALL UTILITIES.
10. PERMITS WILL BE REQUIRED FOR THE INSTALLATION OF ALL CONCRETE AND ASPHALT FACILITIES. PRIOR TO THE ISSUANCE OF THESE PERMITS, THE DEVELOPER/CONTRACTOR/ENGINEER, MUST SUPPLY THE SQUARE YARDAGE/SQUARE FOOTAGES OF ALL CONCRETE AND ASPHALT BEING INSTALLED.
11. THE SIA MUST BE COMPLETED WITH APPROPRIATE COLLATERAL, ALONG WITH THE PROPOSED PLAT, PRIOR TO THE ISSUANCE OF ANY ROW ACCESS/CONSTRUCTION PERMIT.
12. NO C.O.'S WILL BE ISSUED FOR ANY BUILDING CONSTRUCTION UNTIL ALL ROW IMPROVEMENTS HAVE BEEN COMPLETED AND HAVE BEEN GRANTED PRELIMINARY ACCEPTANCE.
13. UPON COMPLETION OF ALL CONSTRUCTION, A DRAINAGE CERTIFICATION LETTER, AND APPROPRIATE AS-BUILT CONSTRUCTION DRAWINGS AND INFORMATION WILL BE REQUIRED. THIS LETTER WILL BE STAMPED AND SIGNED BY THE ORIGINAL DESIGN ENGINEER.



VICINITY MAP
SCALE: 1"=600'

BENCHMARK:

PER THE ADAMS COUNTY DATASHEET FOR WEST ADAMS COUNTY DENSIFICATION STATION NAME 95.0244, STATION NUMBER: 0244, A 3-1/4" ALUMINIUM DISK SET IN 6" PVC PIPE W/LOGO CAP, STAMPED "95.0244 1995 3S68W S17" LOCATED SOUTHWEST OF THE INTERSECTION WEST 56TH AVENUE AND ZUNI STREET. ELEVATION 5271.33 NAVD 1988 DATUM.

NOTE:

PUBLIC IMPROVEMENTS SHALL CONFORM TO ADAMS COUNTY STANDARDS AND SPECIFICATIONS AND LATEST EDITION OF COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

LEGEND

- EX STORM INLET
- EX STORM SEWER W/MH
- EX SANITARY SEWER W/MH
- EX WATER
- EX OVERHEAD ELECTRIC
- EX UTILITY POLE
- PROPERTY BOUNDARY
- PR SIDEWALK
- EX CONTOURS
- PR CONTOURS

SHEET INDEX

- 1 COVER SHEET
- 2 EXISTING CONDITIONS SURVEY
- 3 SITE PLAN
- 4 DRAINAGE PLAN
- 5 EROSION CONTROL PLAN
- 6 PARKING PLAN

Project: P190915-ENGINEERING-CONDITIONAL USE PERMIT-PRIVATE COVER DWG. Layout: LAYOUT1
Date: 11/25/2019 10:31:05P By: Mark West



CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

DEVELOPER:
BRANNAN SAND AND GRAVEL COMPANY, LLC
2500 EAST BRANNAN WAY
DENVER, CO 80229
T. 1-303-534-1231

HKS HARRIS
KOCHER
SMITH
1120 Lincoln Street, Suite 1000
Denver, Colorado 80203
P: 303.623.6300 F: 303.623.6311
HarrisKocherSmith.com

DATE	REVISION COMMENTS

ISSUE DATE: 11-25-2019 PROJECT #: 190915

N. E. COR. SEC 8, T. 3S., R. 68W.
(NOT FOUND)

LEGAL DESCRIPTION: (FROM CLIENT)

A PARCEL OF LAND LYING IN THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 3 SOUTH, RANGE 68 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF ADAMS, STATE OF COLORADO, DESCRIBED AS FOLLOWS:
BEGINNING AT THE NORTHEAST CORNER OF SAID SECTION 8, THENCE SOUTH 00 DEGREES 07 MINUTES 03 SECONDS EAST, 1850.60 FEET ALONG THE EAST LINE OF SAID SECTION 8 TO A POINT ON THE SOUTH LINE OF THAT PARCEL OF LAND AS DESCRIBED IN BOOK 4180, PAGE 409, ADAMS COUNTY RECORDS, SAID POINT BEING THE TRUE POINT OF BEGINNING;
THENCE SOUTH 00 DEGREES 07 MINUTES 03 SECONDS EAST ALONG THE EAST LINE OF SAID SECTION 8 920.29 FEET TO A POINT ON THE NORTH LINE OF THAT PARCEL OF LAND AS DESCRIBED IN BOOK 3374, PAGE 318, ADAMS COUNTY RECORDS;
THENCE SOUTH 86 DEGREES 54 MINUTES 20 SECONDS WEST ALONG SAID NORTH LINE 169.81 FEET;
THENCE SOUTH 78 DEGREES 58 MINUTES 16 SECONDS WEST ALONG SAID NORTH LINE 56.02 FEET TO THE NORTH LINE OF THAT PARCEL OF LAND AS DESCRIBED IN BOOK 3432, PAGE 154, ADAMS COUNTY RECORDS;
THENCE NORTH 89 DEGREES 58 MINUTES 13 SECONDS WEST ALONG SAID NORTH LINE 1411.70 FEET;
THENCE SOUTH 49 DEGREES 53 MINUTES 18 SECONDS WEST ALONG THE NORTHWESTERLY LINE OF SAID PARCEL OF LAND DESCRIBED IN BOOK 3432, PAGE 154 A DISTANCE OF 77.56 FEET TO THE EAST-WEST CENTERLINE OF SAID SECTION 8;
THENCE NORTH 89 DEGREES 58 MINUTES 13 SECONDS WEST ALONG SAID EAST-WEST CENTERLINE 183.64 FEET MORE OR LESS TO THE SOUTHERLY LINE OF THAT PARCEL OF LAND AS DESCRIBED IN BOOK 4180, PAGE 409, ADAMS COUNTY RECORDS;
THENCE NORTHEASTERLY ALONG SAID SOUTHERLY LINE THE FOLLOWING SIX COURSES:
1. NORTH 49 DEGREES 25 MINUTES 25 SECONDS EAST, 122.50 FEET;
2. NORTH 47 DEGREES 42 MINUTES 36 SECONDS EAST, 359.79 FEET;
3. THENCE ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 433.51 FEET AND A CENTRAL ANGLE OF 11 DEGREES 59 MINUTES 07 SECONDS;
4. NORTH 59 DEGREES 41 MINUTES 43 SECONDS EAST, 331.34 FEET;
5. NORTH 68 DEGREES 33 MINUTES 27 SECONDS EAST, 1080.62 FEET;
6. NORTH 72 DEGREES 24 MINUTES 16 SECONDS EAST, 155.30 FEET TO THE TRUE POINT OF BEGINNING.
NOTE: THE ABOVE LEGAL DESCRIPTION WAS PREPARED BY SELLARDS & GRIGGS, INC., JOB NO. 93-085-021,
BASIS FOR BEARINGS:

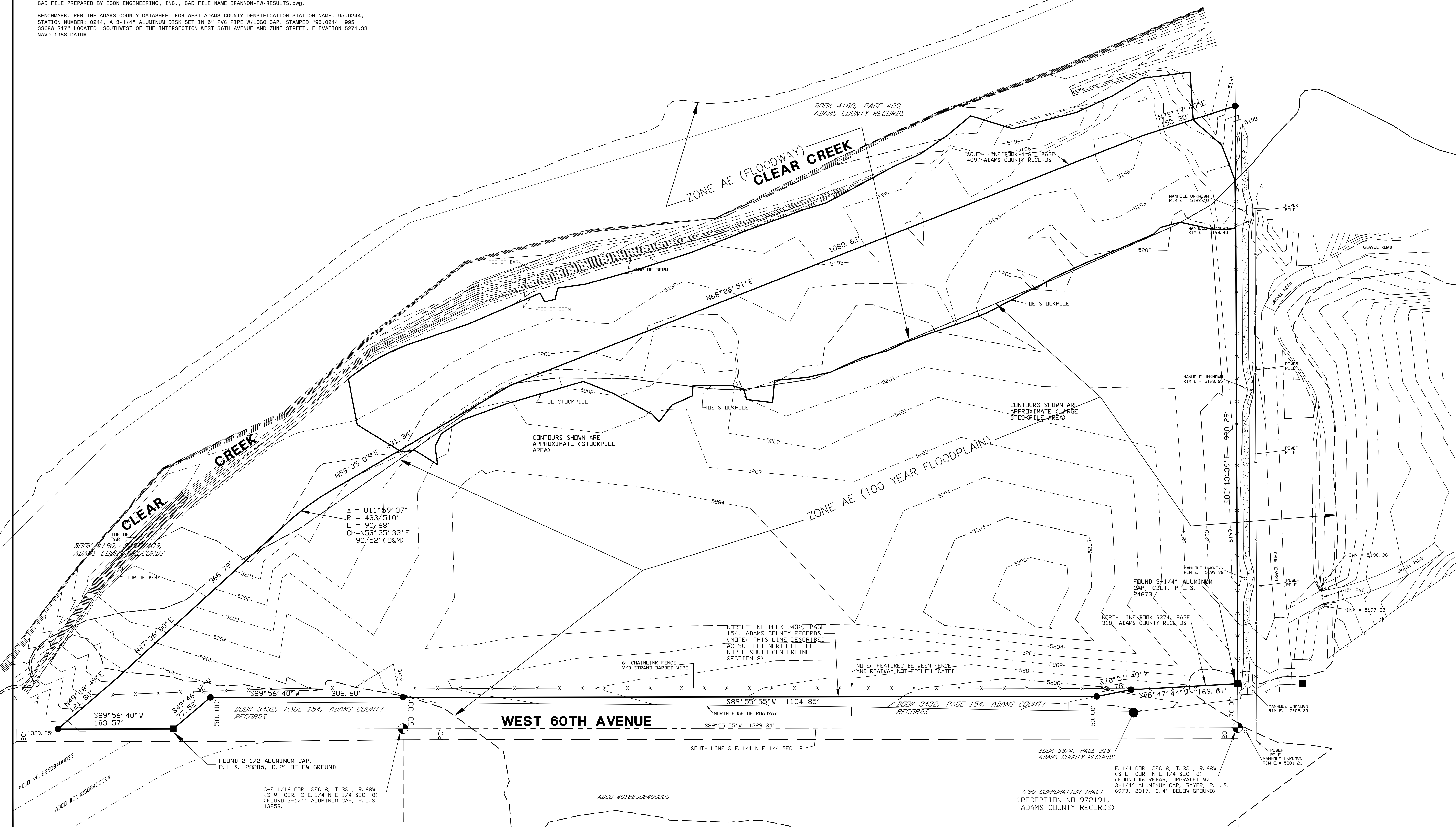
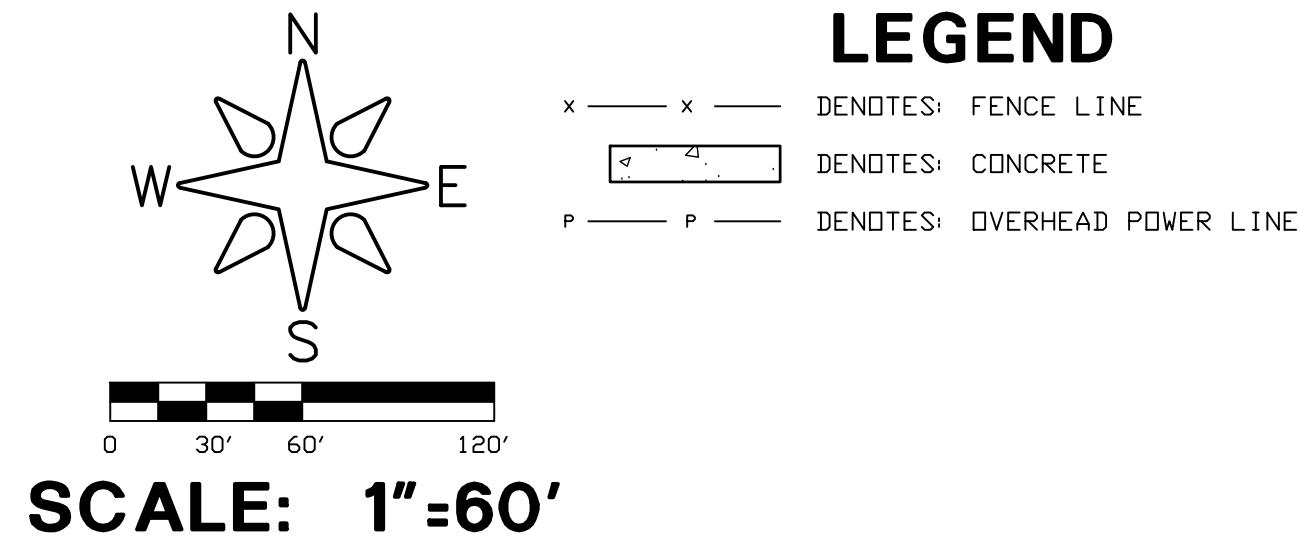
THE EAST LINE OF THE NORTHEAST ONE-QUARTER OF SECTION 8, TOWNSHIP 3 SOUTH, RANGE 68 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF ADAMS, STATE OF COLORADO, BEARS SOUTH 00°13'39" EAST (BY PUBLISHED COORDINATES), TAKEN FROM THE CDDT, RIGHT-OF-WAY PLANS PROJECT NO: STE C0120-019, ON FILE IN LAND SURVEY PLATS, BOOK 1, PAGE 4952, RECEPTION NO. 2017-187, ADAMS COUNTY RECORDS.
THIS DRAWING IS IN STATE PLANE COORDINATES (GROUND) NAD83 CENTRAL ZONE.
THE COMBINED SCALE FACTOR IS: 0.999791991 (1/1X1.000208052).
ALL BEARINGS SHOWN HEREON ARE RELATIVE (ROTATED) THERETO. MONUMENTS EXIST AS SHOWN HEREON.

NOTICE:
ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.
THE LINEAL UNITS USED AND SHOWN HEREON IS U. S. SURVEY FOOT.
THE FENCE DIMENSION(S) INDICATE ON WHICH SIDE OF THE LINE THE FENCE IS ON.

THE CLIENT REQUESTED THAT RIGHT-OF-WAY BE SHOWN. THE CLIENT WAS MADE AWARE THAT EASEMENTS WOULD NOT BE SHOWN EXCEPT WHERE DOCUMENTATION WAS PROVIDED TO THE SURVEYOR. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY R.W. BAYER & ASSOCIATES, INC. OF THE PROPERTY SHOWN AND DESCRIBED HEREON TO DETERMINE OWNERSHIP, MINERAL INTEREST OWNERSHIP, COMPATIBILITY OF THIS DESCRIPTION WITH THOSE OF ADJACENT TRACTS OF LAND OR RIGHTS-OF-WAY, DEDICATIONS, EASEMENTS OR ENCUMBRANCES OF RECORD AFFECTING THIS TRACT OF LAND.
THIS MAP IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY OR LAND SURVEY PLAT. IT IS ONLY INTENDED TO DEPICT THE ATTACHED LEGAL DESCRIPTION.

THIS PARCEL OF LAND LIES WITHIN ZONE AE (FLOODWAY AND AREAS INUNDATED BY THE 1% ANNUAL CHANCE FLOODPLAIN (100 YEAR FLOOD) AS DELINEATED IN THE F.E.M.A., FLOOD INSURANCE RATE MAP, MAP NUMBER 08001C0592H, MAP REVISED MARCH 05, 2007. THE FLOODWAY AND FLOODPLAIN LINES SHOWN HEREON ARE FROM THE CAD FILE PREPARED BY ICON ENGINEERING, INC., CAD FILE NAME BRANNON-FW-RESULTS.dwg.

BENCHMARK: PER THE ADAMS COUNTY DATASHEET FOR WEST ADAMS COUNTY DENSIFICATION STATION NAME: 95.0244, STATION NUMBER: 0244, A 3-1/4" ALUMINUM DISK SET IN 6" PVC PIPE W/1000 CAP, STAMPED "95.0244 1995 3568W 517" LOCATED SOUTHWEST OF THE INTERSECTION WEST 56TH AVENUE AND ZUNI STREET. ELEVATION 5271.33 NAVD 1988 DATUM.



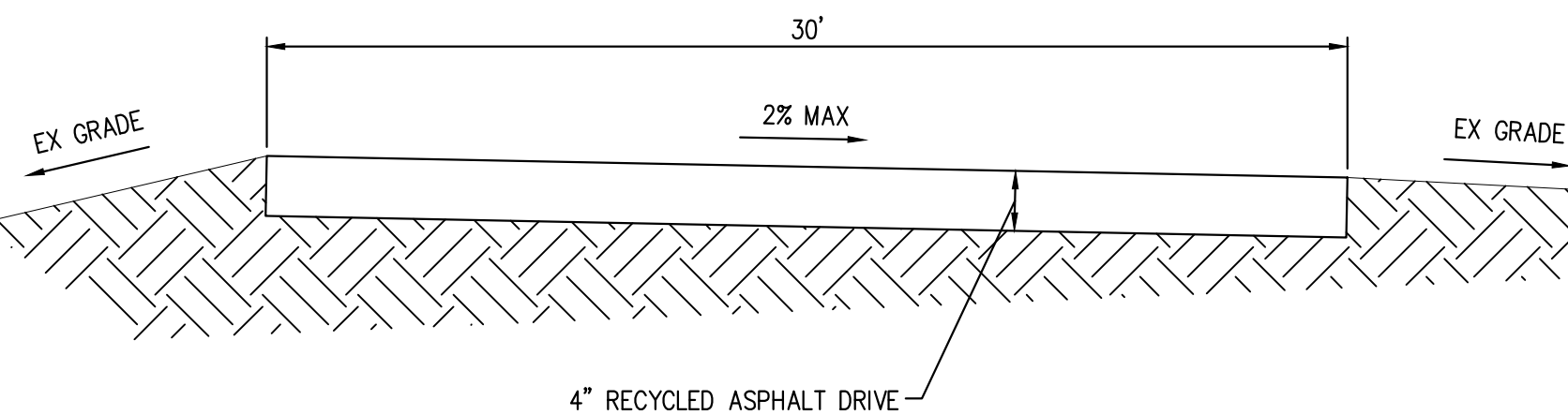
R.W. BAYER & ASSOCIATES, INC.
2090 EAST 104TH AVENUE, SUITE 200
THORNTON, COLORADO 80233-4316
(303) 452-4433 rwsurveying@hotmail.com

CAD FILE: B:\134\818134.DWG REVISIONS: 09-18-2018 ADD FLOWAY EXISTING & ADD NAD83 TOPO SOUTH OF FLOWAY LINE / 09-28-2018 ADD NEW TOPO IN N.W. CORNER

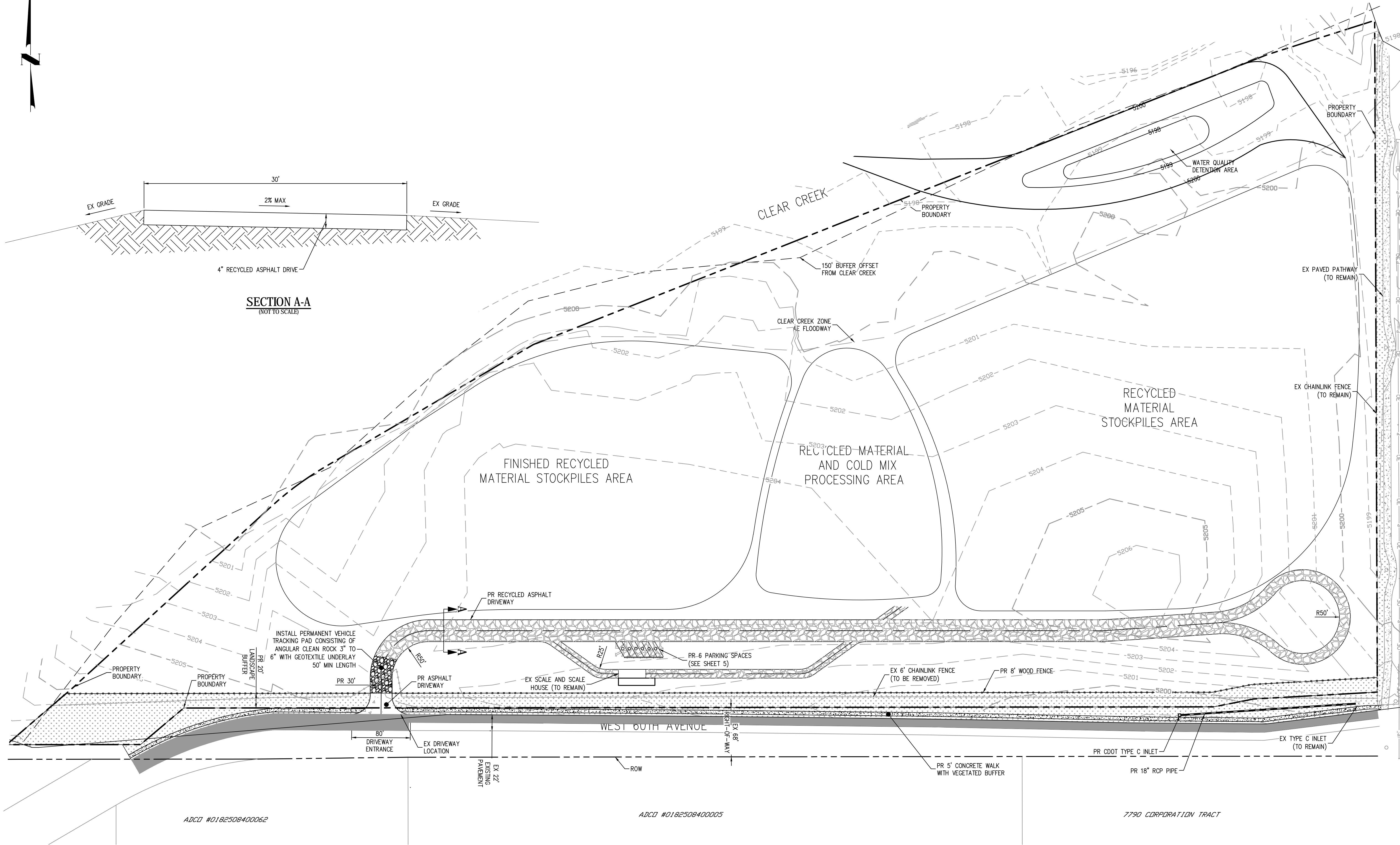
PIT R TOPOGRAPHIC MAPPING
PART OF NORTHEAST ONE-QUARTER OF SECTION 8, TOWNSHIP 3 SOUTH, RANGE 68 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF ADAMS, STATE OF COLORADO.

SCALE: 1"=60'	DATE: JULY 18, 2018	DRW BY: G.A.B.	CHK BY: R.B.	PROJ. NO: 2018-134
BOOK: 698/703	PAGE: 137/46	FILE NO: 8-38-218L	SHEET: 1 OF 1	

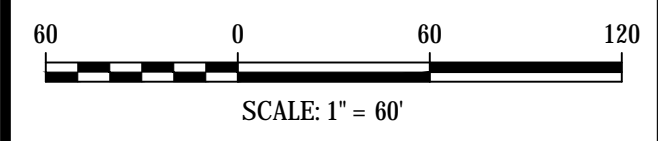
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF HARRIS KOCHER SMITH



SECTION A-A
(NOT TO SCALE)



FILE PATH: P:\190915\ENGINEERING\CONDITIONAL USE PERMIT\PRIVATE\CU\IP - IMPROVEMENT PLAN.DWG LAYOUT: PR IMP PLAN
 PLOTTED: MON 05/04/2020 3:01:08P BY: MARK WEST



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 1120 Lincoln Street, Suite 1000
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 HarrisKocherSmith.com

BRANNAN SAND AND GRAVEL

**CONDITIONAL USE PERMIT - PIT R
 SITE PLAN**

ISSUE DATE: 11-25-2019	PROJECT #: 190915
DATE	REVISION COMMENTS

PRELIMINARY
 NOT FOR
 CONSTRUCTION

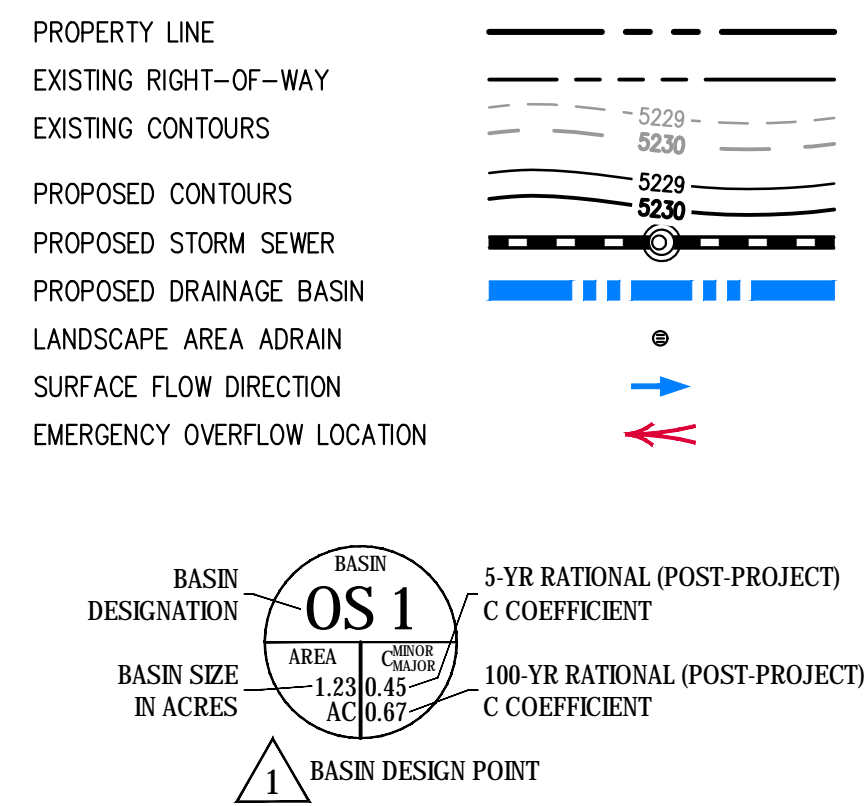
SHEET NO.

3

3 OF 6

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF HARRIS KOCHER SMITH

LEGEND



RUNOFF SUMMARY TABLE					
BASIN	DESIGN POINT	AREA (AC)	IMPERVIOUS %	Q _s (CFS)	Q ₁₀₀ (CFS)
Road (exist)	1	3.49	12.3	0.39	2.56
Road (prop)	1	3.49	16.9	0.60	3.09
Site (exist)	2	21.18	2.7	0.35	10.18
Site (prop)	2	21.18	2.7	0.35	10.18

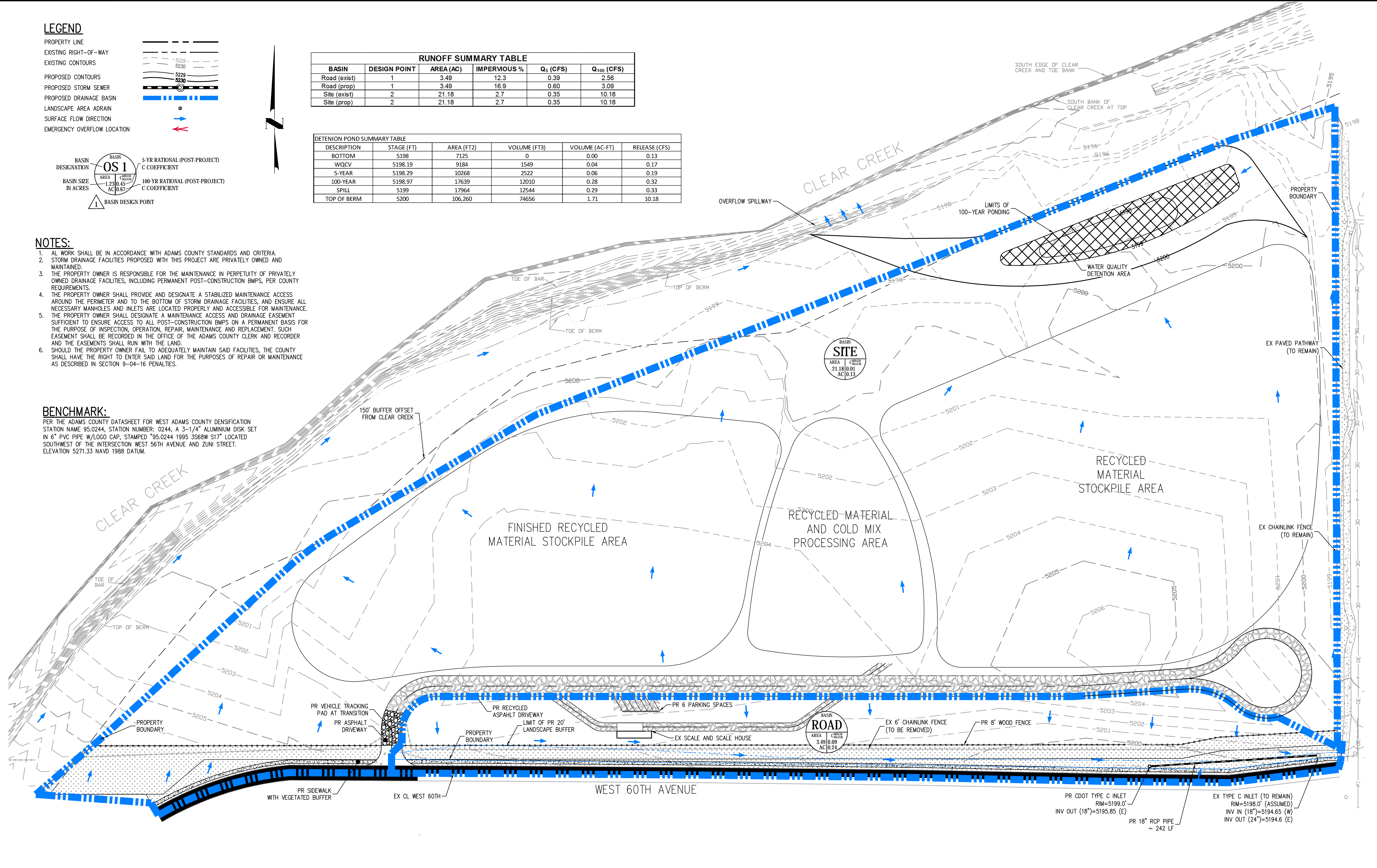
DETENTION POND SUMMARY TABLE					
DESCRIPTION	STAGE (FT)	AREA (FT ²)	VOLUME (FT ³)	VOLUME (AC-FT)	RELEASE (CFS)
BOTTOM	5198	7125	0	0.00	0.13
WQCV	5198.19	9184	1549	0.04	0.17
5-YEAR	5198.29	10268	2522	0.06	0.19
100-YEAR	5198.97	17639	12010	0.28	0.32
SPILL	5199	17964	12544	0.29	0.33
TOP OF BERM	5200	106,260	74656	1.71	10.18

NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH ADAMS COUNTY STANDARDS AND CRITERIA.
- STORM DRAINAGE FACILITIES PROPOSED WITH THIS PROJECT ARE PRIVATELY OWNED AND MAINTAINED.
- THE PROPERTY OWNER IS RESPONSIBLE FOR THE MAINTENANCE IN PERPETUITY OF PRIVATELY OWNED DRAINAGE FACILITIES, INCLUDING PERMANENT POST-CONSTRUCTION BMPs, PER COUNTY REQUIREMENTS.
- THE PROPERTY OWNER SHALL PROVIDE AND DESIGNATE A STABILIZED MAINTENANCE ACCESS AROUND THE PERIMETER AND TO THE BOTTOM OF STORM DRAINAGE FACILITIES, AND ENSURE ALL NECESSARY MANHOLES AND INLETS ARE LOCATED PROPERLY AND ACCESSIBLE FOR MAINTENANCE.
- THE PROPERTY OWNER SHALL DESIGNATE A MAINTENANCE ACCESS AND DRAINAGE EASEMENT SUFFICIENT TO ENSURE ACCESS TO ALL POST-CONSTRUCTION BMPs ON A PERMANENT BASIS FOR THE PURPOSE OF INSPECTION, OPERATION, REPAIR, MAINTENANCE AND REPLACEMENT. SUCH EASEMENT SHALL BE RECORDED IN THE OFFICE OF THE ADAMS COUNTY CLERK AND RECORDER AND THE EASEMENTS SHALL RUN WITH THE LAND.
- SHOULD THE PROPERTY OWNER FAIL TO ADEQUATELY MAINTAIN SAID FACILITIES, THE COUNTY SHALL HAVE THE RIGHT TO ENTER SAID LAND FOR THE PURPOSES OF REPAIR OR MAINTENANCE AS DESCRIBED IN SECTION 9-04-16 PENALTIES.

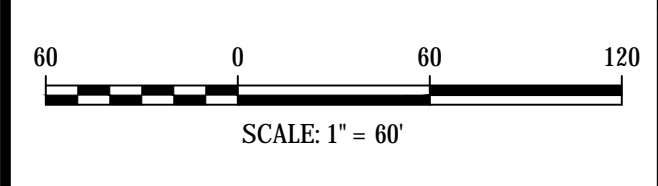
BENCHMARK:

PER THE ADAMS COUNTY DATASHEET FOR WEST ADAMS COUNTY DENSIFICATION STATION NAME 95.0244, STATION NUMBER: 0244, A 3-1/4" ALUMINIUM DISK SET IN 8" PVC PIPE W/LOGO CAP, STAMPED "95.0244 1995 3S68W S17" LOCATED SOUTHWEST OF THE INTERSECTION WEST 56TH AVENUE AND ZUNI STREET. ELEVATION 5271.33 NAVD 1988 DATUM.



FILEPATH: P:\190915\ENGINEERING\DRAINAGE\190915\DRAINAGE PLANNING LAYOUT.LAYOUT1
 PLOTTED: MON 03/04/20 10:01:00 AM BY: MARK WEST

811 Know what's below.
 Call before you dig.
 CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.



HKS HARRIS KOCHER SMITH
 1120 Lincoln Street, Suite 1000
 Denver, Colorado 80203
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 HarrisKocherSmith.com

BRANNAN SAND AND GRAVEL

**CONDITIONAL USE PERMIT - PIT R
 DRAINAGE PLAN**

ISSUE DATE: 11-25-2019	PROJECT #: 190915
DATE	REVISION COMMENTS

PRELIMINARY
 NOT FOR
 CONSTRUCTION

SHEET NO.
4
 4 OF 6

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF HARRIS KOCHER SMITH

BMP LEGEND:

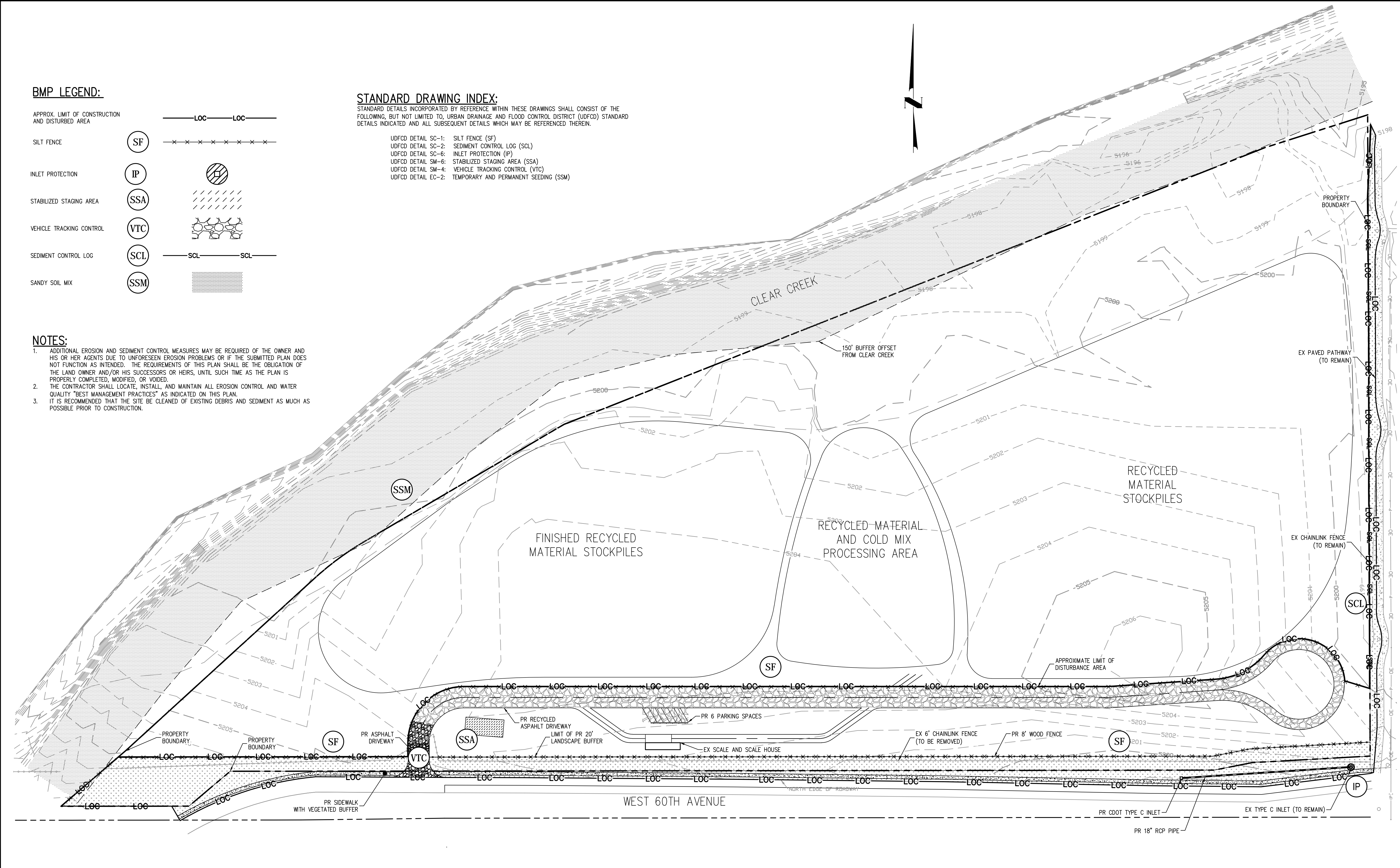
- APPROX. LIMIT OF CONSTRUCTION AND DISTURBED AREA — LOC — LOC —
- SILT FENCE (SF) — x — x — x — x — x —
- INLET PROTECTION (IP)
- STABILIZED STAGING AREA (SSA)
- VEHICLE TRACKING CONTROL (VTC)
- SEDIMENT CONTROL LOG (SCL) — SCL — SCL —
- SANDY SOIL MIX (SSM)

STANDARD DRAWING INDEX:
STANDARD DETAILS INCORPORATED BY REFERENCE WITHIN THESE DRAWINGS SHALL CONSIST OF THE FOLLOWING, BUT NOT LIMITED TO, URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (UDFCD) STANDARD DETAILS INDICATED AND ALL SUBSEQUENT DETAILS WHICH MAY BE REFERENCED THEREIN.

- UDFCD DETAIL SC-1: SILT FENCE (SF)
- UDFCD DETAIL SC-2: SEDIMENT CONTROL LOG (SCL)
- UDFCD DETAIL SC-6: INLET PROTECTION (IP)
- UDFCD DETAIL SM-6: STABILIZED STAGING AREA (SSA)
- UDFCD DETAIL SM-4: VEHICLE TRACKING CONTROL (VTC)
- UDFCD DETAIL EC-2: TEMPORARY AND PERMANENT SEEDING (SSM)

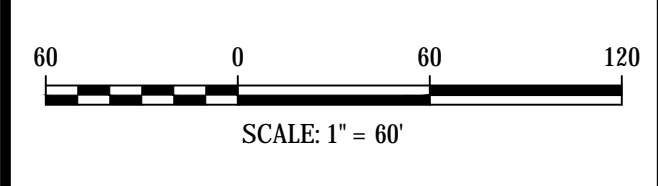
NOTES:

1. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL BE THE OBLIGATION OF THE LAND OWNER AND/OR HIS SUCCESSORS OR HEIRS, UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED, OR VOIDED.
2. THE CONTRACTOR SHALL LOCATE, INSTALL, AND MAINTAIN ALL EROSION CONTROL AND WATER QUALITY "BEST MANAGEMENT PRACTICES" AS INDICATED ON THIS PLAN.
3. IT IS RECOMMENDED THAT THE SITE BE CLEANED OF EXISTING DEBRIS AND SEDIMENT AS MUCH AS POSSIBLE PRIOR TO CONSTRUCTION.



FILE PATH: P:\190915\ENGINEERING\EROSION CONTROL DWG LAYOUT LAYOUT1.dwg
DATE PLOTTED: MON 05/01/2019 10:23:28 AM BY: MARK WEST

811 Know what's below.
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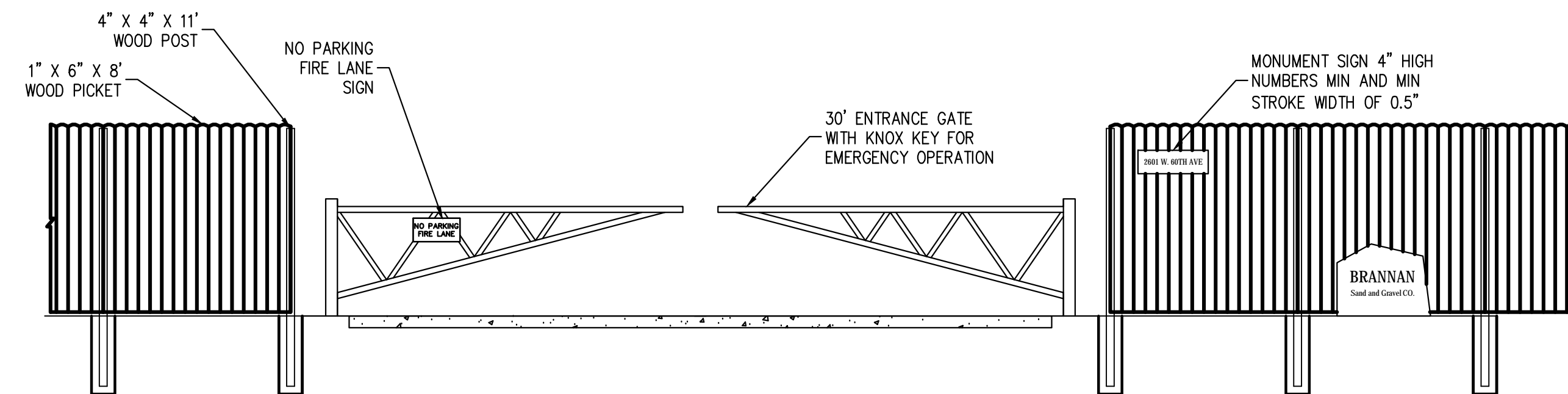
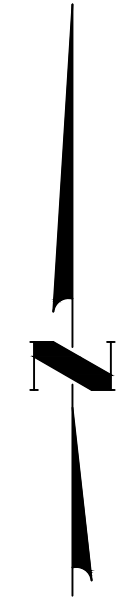
**CONDITIONAL USE PERMIT - PIT R
EROSION CONTROL**

ISSUE DATE: 11-25-2019	PROJECT #: 190915
DATE	REVISION COMMENTS

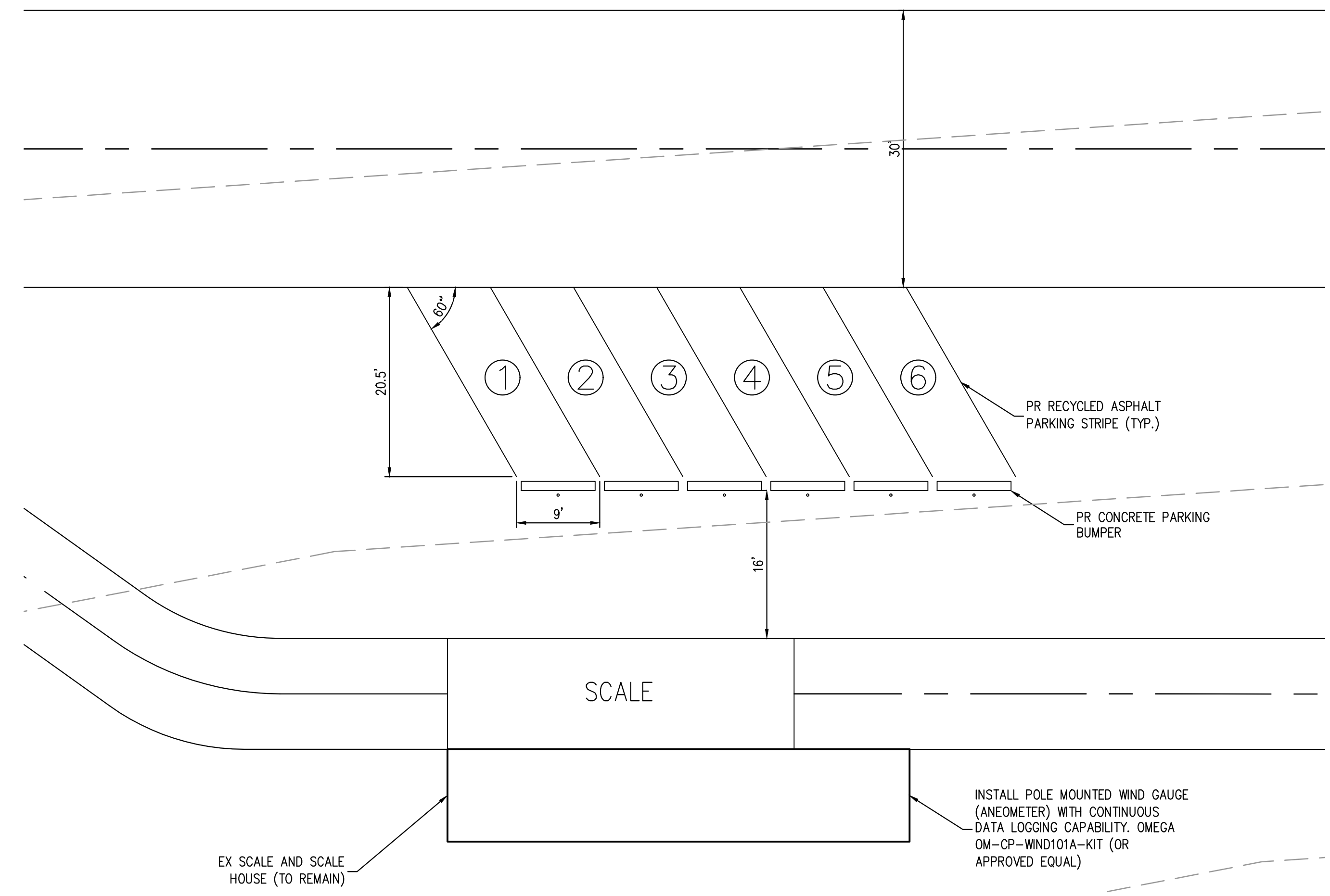
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SHEET NO.
5
5 OF 6

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF HARRIS KOCHER SMITH

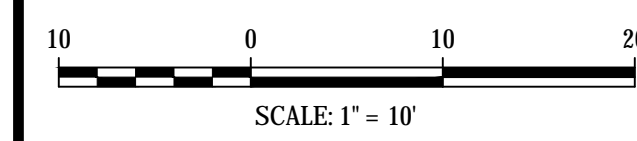


FENCING DETAIL
(1"=3')



PARKING PLAN
(1"=10')

FILE PATH: P:\190915\ENGINEERING\CONDITIONAL USE PERMIT\PRIVATE\CU\IP - PR IMPROVEMENT PLAN.DWG LAYOUT: PR PARKING
OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.
PLOT DATE: MON 05/01/2019 3:01:28P BY: MARK WEST



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BRANNAN SAND AND GRAVEL

CONDITIONAL USE PERMIT - PIT R
PARKING PLAN

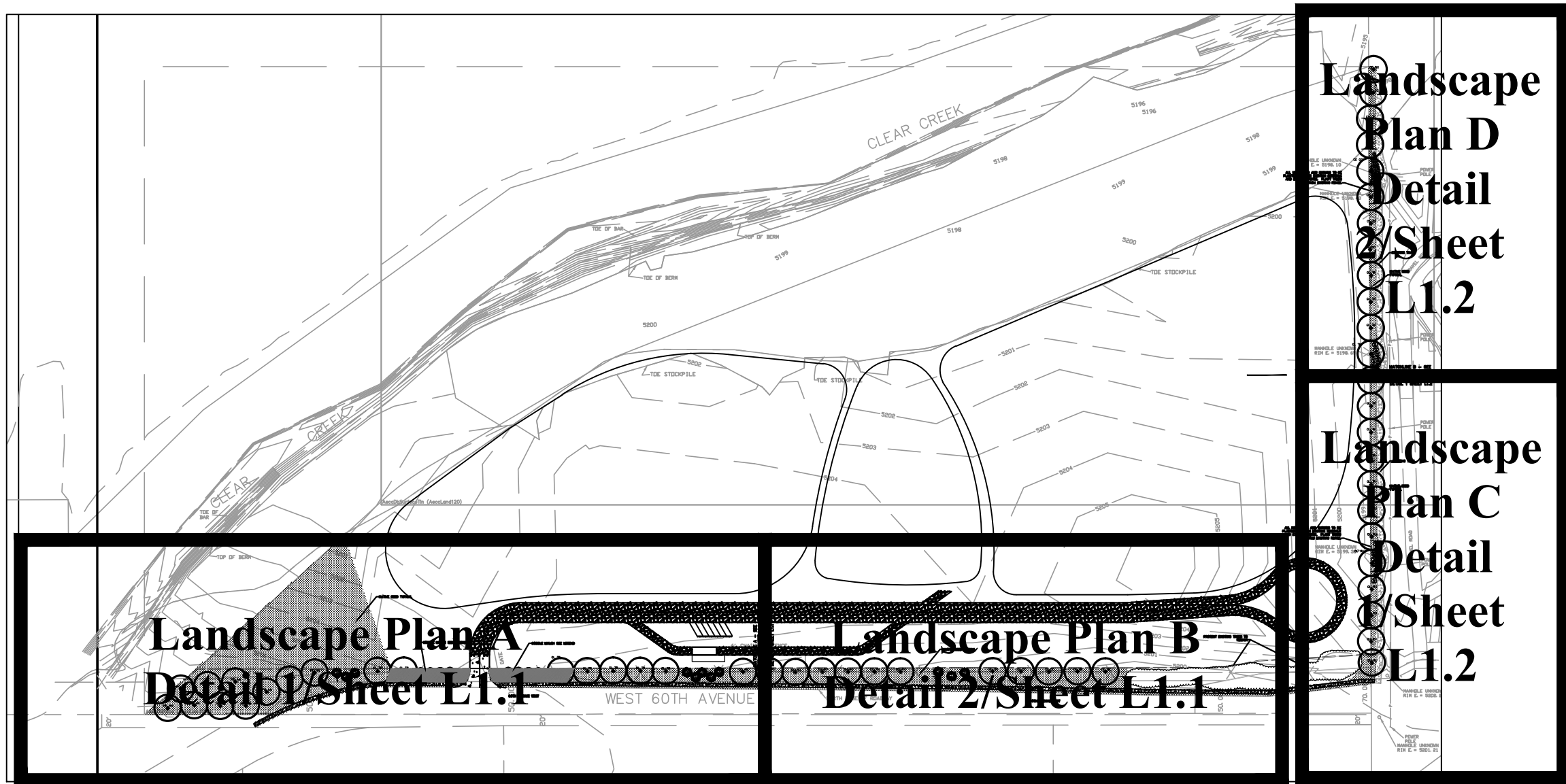
ISSUE DATE: 11-25-2019	PROJECT #: 190915
DATE	REVISION COMMENTS

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CONSTRUCTION

SHEET NO.

6

6 OF 6



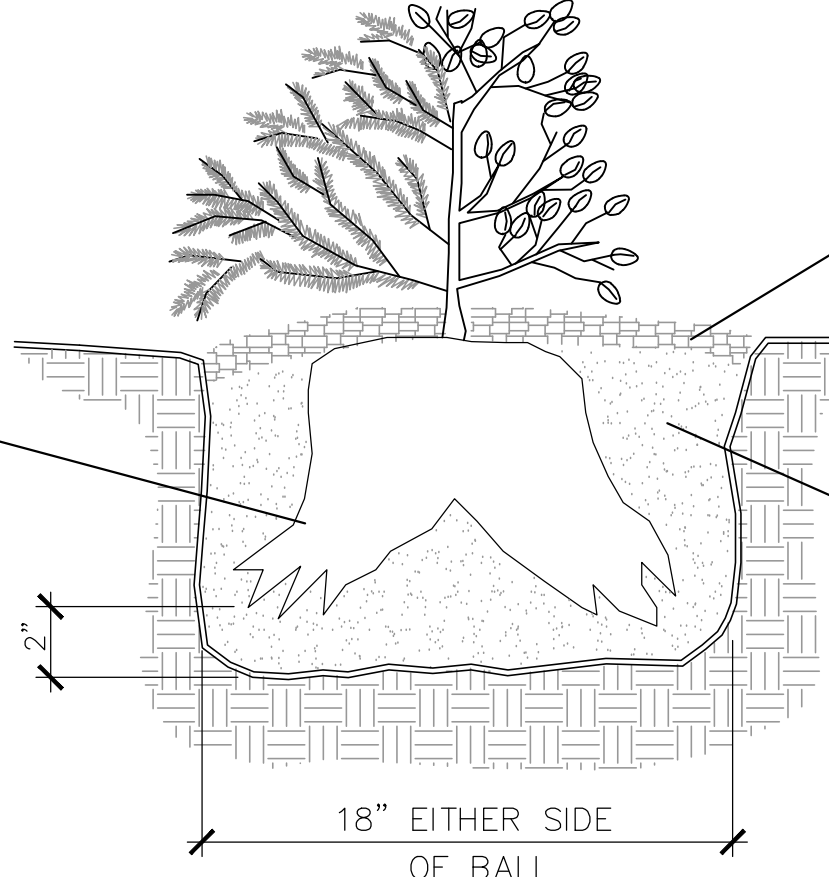
1 OVERALL LANDSCAPE PLAN

Scale: 1"=200'

SCALE 1"=200'-0"

EVERGREEN SHRUB
 PLACE SPREADING EVERGREEN SHRUBS PERPENDICULAR TO SLOPE OF GROUND. LEAVE ENOUGH SPACE UNDER BRANCHES FOR MULCH. MOUND BACKFILL UNDER ROOTBALL.

REMOVE CONTAINER, SPLIT BOTTOM 1/2 OF BALL, SPREAD AND PLANT



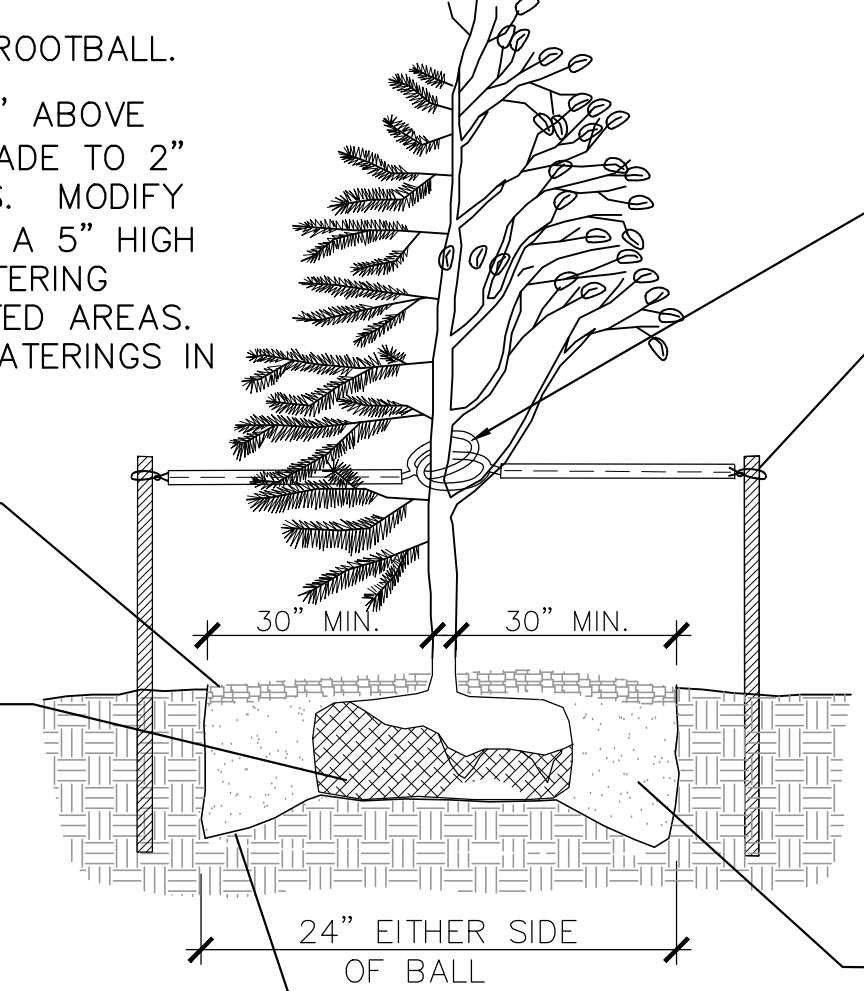
DECIDUOUS SHRUB
 PRUNE AS DIRECTED BY LANDSCAPE ARCHITECT. SET SHRUB PLUMB. MULCH OVER MOUNDED BACKFILL. BUILD A 4" BERM AROUND SHRUB TO CREATE A WATERING BASIN IN NON-IRRIGATED AREAS ONLY. PREPARED BACKFILL MIXTURE:
 1. TWO PARTS NATIVE SOIL FROM PIT EXCAVATION.
 2. ONE PART BIO COMP BY A-1 ORGANICS PER SPEC SECTION 32 91 13.
 3. MATERIALS TO BE THOROUGHLY BLENDED.

NOTE: ALL PLANTS ARE TO BE NURSERY GROWN STOCK FROM GROWERS LOCATED IN USDA HARDINESS ZONES 1,2,3 OR 4.

2 SHRUB PLANTING DETAIL

NOT TO SCALE

DIG HOLE TWO TIMES THE SIZE OF THE ROOTBALL. NOTE: SET ROOT BALL OF ALL TREES 4" ABOVE GRADE IN IRRIGATED AREAS AND AT GRADE TO 2" ABOVE GRADE IN NON-IRRIGATED AREAS. MODIFY IF SOIL CONDITIONS WARRANT. INSTALL A 5" HIGH BERM AROUND TREES TO CREATE A WATERING BASIN. BERM IS TEMPORARY IN IRRIGATED AREAS. REMOVE BERM AFTER TWO THOROUGH WATERINGS IN IRRIGATED AREAS AND MULCH



DIG HOLE TWO TIMES THE SIZE OF THE ROOTBALL. PRUNE AS DIRECTED BY OWNER'S REPRESENTATIVE. DO NOT PRUNE OR DAMAGE CENTRAL LEADER. WRAP TRUNK FROM GROUND LEVEL TO SECOND BRANCH WITH 4 INCH KRAFT TYPE TREE WRAP. SECURE ENDS WITH FLEXIBLE TAPE. GUYING SYSTEM: MIN. 6 FEET LONG HEAVY DUTY WOOD POST STAKES WITH 12 GAUGE GALVANIZED STEEL WIRE GUYS SECURED TO TREE WITH 1" CANVAS STRAP ABOVE FIRST BRANCH. WIRE TO BE TAUT BUT NOT OVER TIGHT. FLAG WIRE WITH 1/2" WHITE PVC PLASTIC PIPE. CONIFERS TO HAVE 2 STAKES FOR TREES 6 FEET AND LESS. 3 STAKES FOR TREES ABOVE 6 FEET. DECIDUOUS TREES TO HAVE 2 STAKES FOR TREES 2-1/2" CAL. ONE STAKE ALWAYS IN DIRECTION OF PREVAILING WINDS. REMOVE STAKES & GUYS AFTER 1 YEAR.

MULCH FLUSH WITH SOD AT EDGE. PROVIDE 30" MIN. RING FROM EDGE OF BARK TO EDGE OF MULCH. REMOVE BOTTOM 1/3 OF WIRE BASKET. SET TREE IN PIT TO PROPER GRADE AND PLUMB. REMOVE REMAINING WIRE AND TWINE. IF PLASTIC OR TREATED BURLAP, REMOVE AS MUCH AS POSSIBLE AND BACKFILL. IF REGULAR BURLAP, BACKFILL 2/3 OF PIT. REMOVE 1/3 OF BURLAP AND COMPLETE UNDISTURBED SOIL BACKFILL.

NOTE: ALL PLANTS ARE TO BE NURSERY GROWN STOCK FROM GROWERS LOCATED IN USDA HARDINESS ZONES 1,2,3 OR 4.

3 TREE PLANTING DETAIL

NOT TO SCALE

LEGEND

- DECIDUOUS SHADE TREE
- EVERGREEN TREE
- ORNAMENTAL TREE
- DECIDUOUS SHRUB
- 4"-24" BRANNAN SAND AND GRAVEL
NATURAL COLORED RIVER ROCK MULCH OVER GEOTEXTILE FABRIC
- LOW GROW NATIVE SEED MIX, ARKANSAS VALLEY
LOW GROW SEED MIX, AMEND SOIL FOR SEED WITH 3 CY OF A1 ORGANICS SOIL AMENDMENT PER 1,000 SF TILLED IN TO 9" DEPTH. APPLY SEED AT A RATE OF 25 LBS PER ACRE. CONTRACTOR RESPONSIBLE FOR PROVIDING WATER AS REQUIRED UNTIL SEED IS ESTABLISHED.

PLANT SCHEDULE

SYMBOL	Botanical Name COMMON NAME	SIZE
DECIDUOUS TREES:		
GL TR	<i>Gleditsia triacanthos inermis</i> 'Shademaster' SHADEMASTER HONEYLOCUST	2 1/2" B&B
CE OC	<i>Celtis occidentalis</i> WESTERN HACKBERRY	2 1/2" B&B
QU RU	<i>Quercus rubra</i> RED OAK	2 1/2" B&B
PO AN	<i>Populus angustifolia</i> NARROWLEAF COTTONWOOD	2 1/2" B&B
EVERGREEN TREES:		
JU MO	<i>Juniperus monosperma</i> ONE SEED JUNIPER	6" B&B
ORNAMENTAL TREES		
AC GR	<i>Acer grandidentatum</i> BIGTOOTH MAPLE	1 1/2" B&B
DECIDUOUS SHRUBS:		
RH AR	<i>Rhus aromatica</i> 'Grow Low' GROW LOW FRAGRANT SUMAC	#5 Cont.
PR PA	<i>Prunus besseyi</i> 'Pawnee Buttes' CREEPING WESTERN SAND CHERRY	#5 Cont.

- ### GENERAL NOTES:
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY IN, ON OR ABOUT THE PROJECT SITE. ANY DAMAGE TO ADJACENT PROPERTY OR UTILITIES, NOT DESIGNATED FOR REMOVAL, RELOCATION OR REPLACEMENT, SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS OR LICENSES REQUIRED FOR THE PERFORMANCE OF THE WORK AS APPLICABLE TO THE PROJECT.
 - THE LANDSCAPE ARCHITECT AND/OR OWNER MAKE NO WARRANTY AS TO THE CORRECTNESS AND/OR COMPLETENESS OF THE EXISTING FEATURES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES INCLUDING WATER, SEWER, STORM DRAINS, GAS TRANSMISSION LINES, AND OTHER UTILITIES ABOVE AND BELOW THE SURFACE THAT MAY AFFECT THE PROJECT. SHOULD DISCREPANCY OR CONFLICT BE DISCOVERED THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY, AND SHALL NOT CONTINUE CONSTRUCTION UNTIL SAID CONFLICT CAN BE RESOLVED IN WRITING.
 - THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTH AND LOCATION OF ALL UTILITIES.
 - ANY CONSTRUCTION DEBRIS OR MUD-TRACKING IN THE PUBLIC RIGHT-OF-WAY RESULTING FROM THE WORK SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN AND OTHER DEVICES NECESSARY TO PROVIDE FOR THE PUBLIC SAFETY ON AND ABOUT THE SITE. THE CONTRACTOR SHALL FURNISH APPROPRIATE TRAFFIC CONTROL AND SAFETY MEASURES IN ACCORDANCE WITH AURORA PUBLIC SCHOOLS REQUIREMENTS.
 - CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PROTECT BOTH ON SITE AND ADJACENT PROPERTY. AREAS OUTSIDE THE LIMITS OF WORK AS SHOWN ON THE PLANS SHALL REMAIN UNDISTURBED. ANY ITEMS NOT INTENDED FOR DEMOLITION MUST BE PROTECTED. ANY DAMAGE WILL BE REPAIRED AT CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL REMOVE ALL DEBRIS FROM DEMOLITION OPERATIONS ON A DAILY BASIS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING, LAYOUT AND STAKING OF ALL IMPROVEMENTS SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION OF IMPROVEMENTS. DISCREPANCIES TO THE BASE INFORMATION SHALL BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION FOR A DECISION PRIOR TO COMMENCING WITH THE WORK. NOTIFICATION OF REQUEST FOR FIELD REVIEW SHALL BE MADE A MINIMUM OF 24 HOURS IN ADVANCE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PROJECT MANAGER IF ANY SIGNIFICANT INCONSISTENCIES BETWEEN THE EXISTING CONDITIONS AND THESE PLANS ARE DISCOVERED.
 - ALL CONSTRUCTION SHALL CONFORM WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF ADAMS COUNTY.
 - THE APPLICANT AGREES TO MAINTAIN PLANTINGS AND OTHER PROPOSED LANDSCAPE IMPROVEMENTS SHOWN ON THIS PLAN WITHOUT REGARD TO LOCATION INSIDE OR OUTSIDE PUBLIC RIGHT-OF-WAY. TO THE EXTENT THAT PLANTINGS ULTIMATELY RESIDE IN THE PUBLIC RIGHT-OF-WAY, THE APPLICANT AGREES TO INCORPORATE MAINTENANCE INTO A DEVELOPMENT AGREEMENT OR OTHER APPROPRIATE INSTRUMENT AT ADAMS COUNTY'S DISCRETION.
 - THE APPLICANT AGREES TO ESTABLISH AND MAINTAIN VEGETATION THROUGH HAND-WATERING, DELIVERED BY THE APPLICANT'S WATER TRUCK.

SUMMARY OF ADAMS COUNTY LANDSCAPE REQUIREMENTS

4-16-07 REQUIRED LOT LANDSCAPING
 TOTAL LOT AREA: 1,019,598 S.F.
 MINIMUM LANDSCAPE AREA 10% OF THE LOT AREA: 101,959 S.F. LANDSCAPING PROVIDED: 102,110 S.F.

4-16-07-01 STREET FRONTAGE LANDSCAPING
 ALONG WEST 60TH AVENUE: 1900 L.F.
 TREES REQUIRED: 48, PROVIDED: 48
 SHRUBS REQUIRED: 96 PROVIDED : 96
 ALONG PUBLIC TRAIL TO EAST 921 L.F.
 TREES REQUIRED: 23, PROVIDED: 23
 SHRUBS REQUIRED: 46, PROVIDED: 46

PRELIMINARY FOR ILLUSTRATIVE PURPOSES ONLY

FILEPATH: C:\DATA\2019 PROJECTS\2019-31 BRANNAN PIT R. LANDSCAPE PLAN.DWG LAYOUT: L1.0 PLOTTED: TUE 11/26/19 2:45:38P BY: KURT

DESIGNED BY: KJM
 CHECKED BY: KJM
 DRAWN BY: KJM

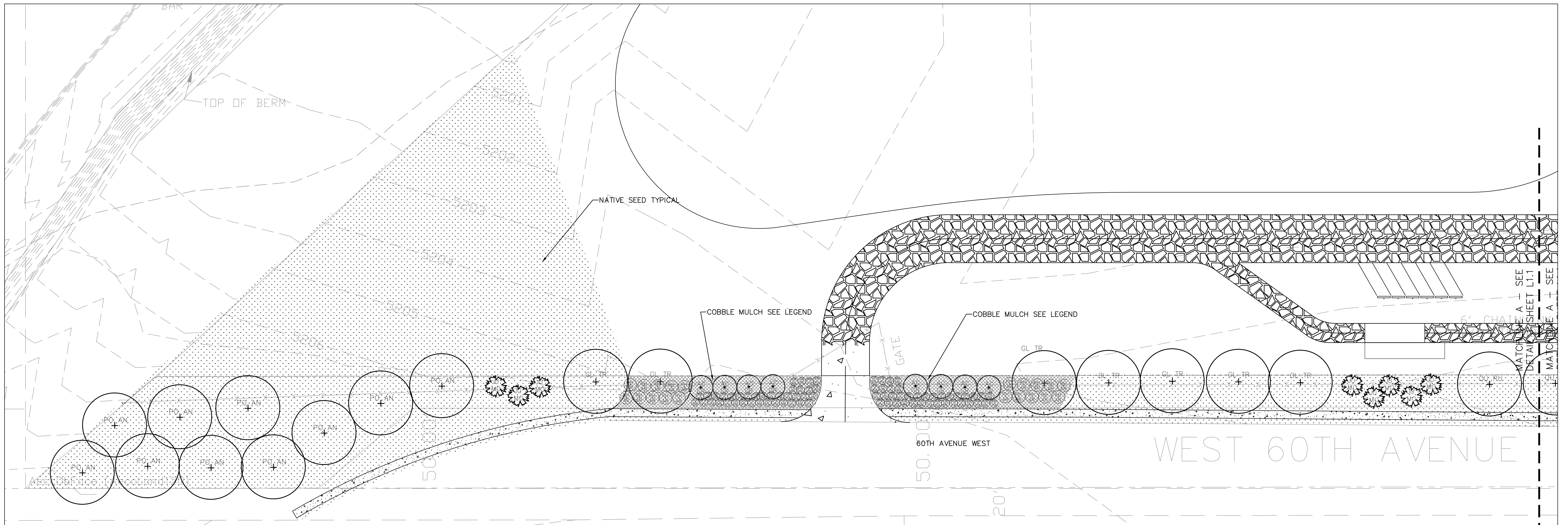
BRANNAN SAND AND GRAVEL COMPANY, LLC

PIT-R CONDITIONAL USE PERMIT
 LANDSCAPE NOTES, DETAILS AND LEGEND

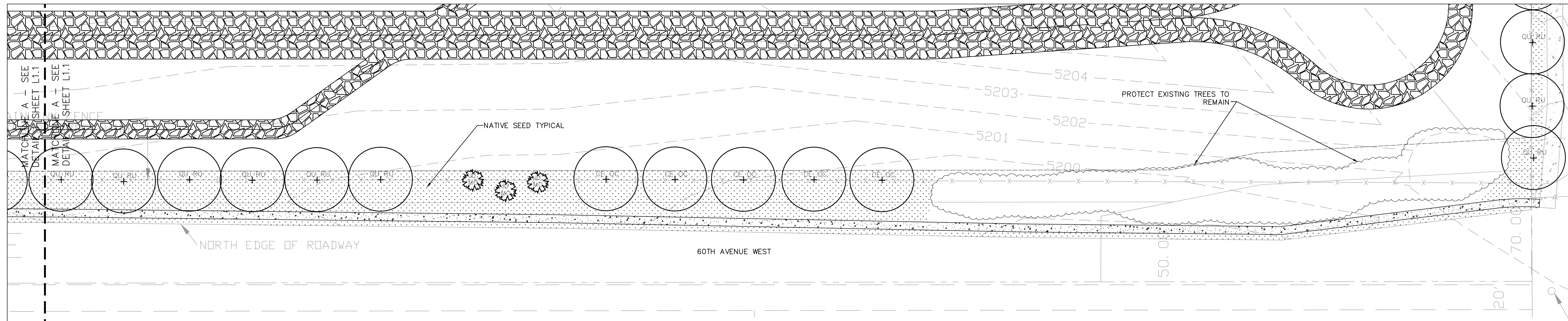
ISSUE DATE: 11/25/19	PROJECT #: 190915
DATE	REVISION COMMENTS

PRELIMINARY NOT FOR CONSTRUCTION

SHEET NO.
L1.0
 01 OF 03



1 LANDSCAPE PLAN -A- ENLARGEMENT
 Scale: 1"=30'
 SCALE 1"=30'-0"



2 LANDSCAPE PLAN -B- ENLARGEMENT
 Scale: 1"=30'
 SCALE 1"=30'-0"

PRELIMINARY FOR ILLUSTRATIVE PURPOSES ONLY

FILEPATH: C:\DATA\2019 PROJECTS\2019-31 BRANNAN PIT-R DRAWINGS\2019-31 BRANNAN PIT-R LANDSCAPE PLAN.DWG LAYOUT.L1.1
 PLOTTED: TUE 11/26/19 2:45:58P BY: KURT

811 Know what's below.
 Call before you dig.
 CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

DESIGNED BY: KJM
 CHECKED BY: KJM
 DRAWN BY: KJM

HKS HARRIS KOCHER SMITH
 1120 Lincoln Street, Suite 1000
 Denver, Colorado 80203
 P: 303.623.6300 F: 303.623.6311
 HarrisKocherSmith.com

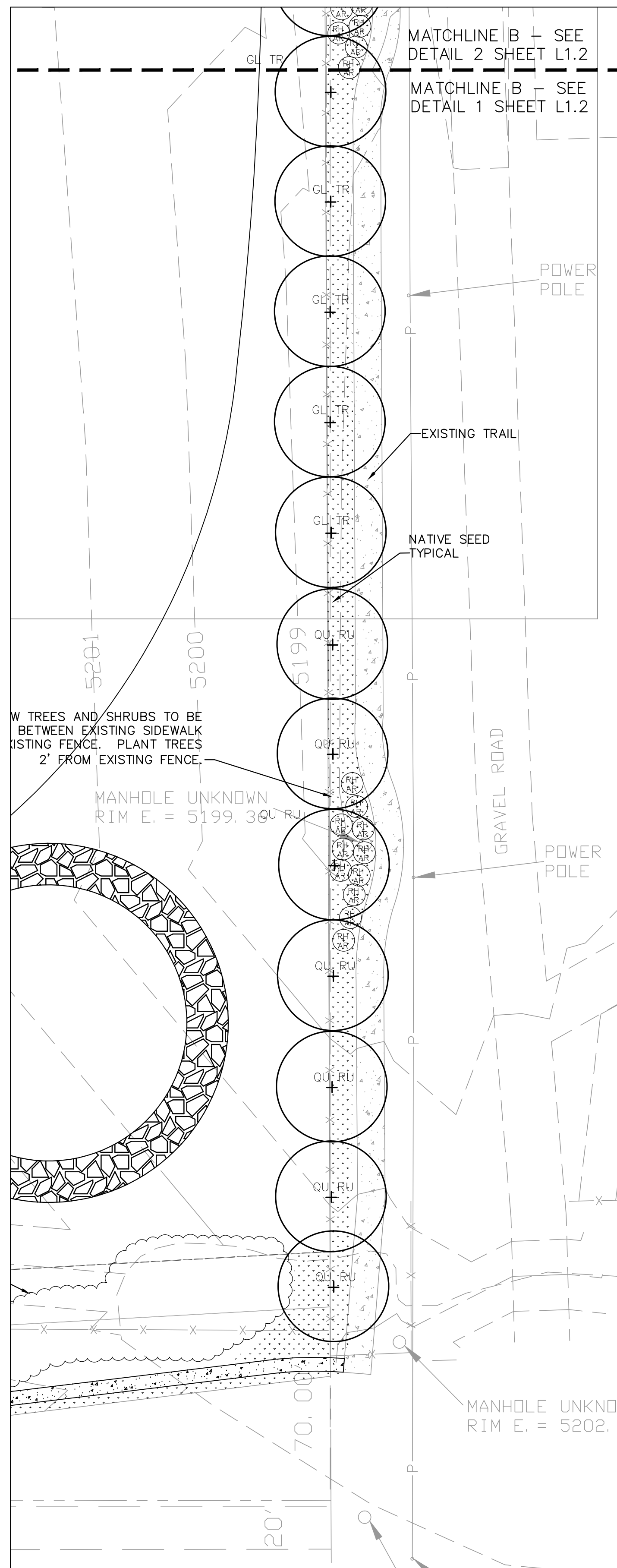
BRANNAN SAND AND GRAVEL COMPANY, LLC

PIT-R CONDITIONAL USE PERMIT
 LANDSCAPE PLAN ENLARGEMENTS

DATE	REVISION COMMENTS

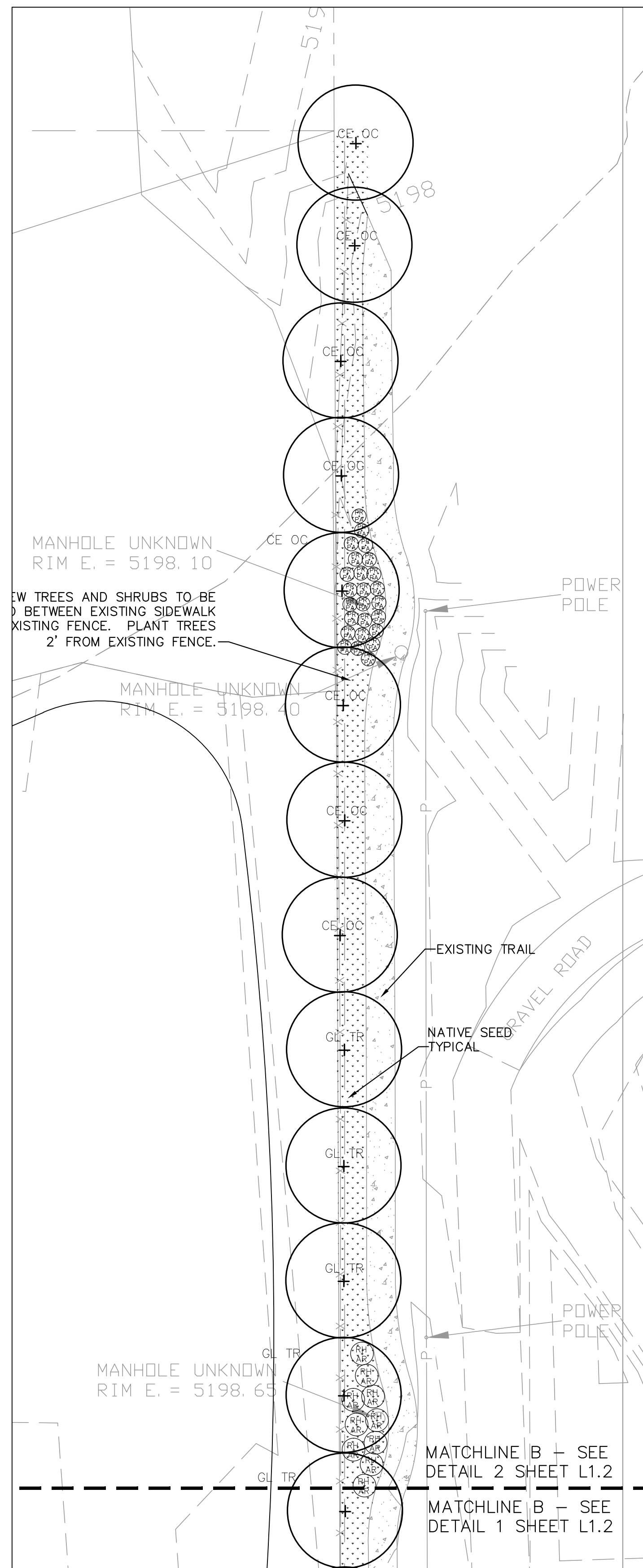
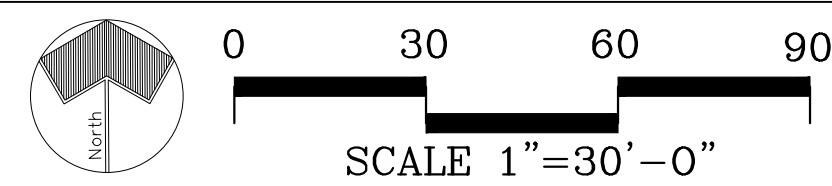
PRELIMINARY NOT FOR CONSTRUCTION

FILEPATH: C:\DATA\2019 PROJECTS\2019-31 BRANNAN PIT-R LANDSCAPE PLAN.DWG LAYOUT: L1.2
 PLOTTED: TUE 11/26/19 2:46:08P BY: KURT



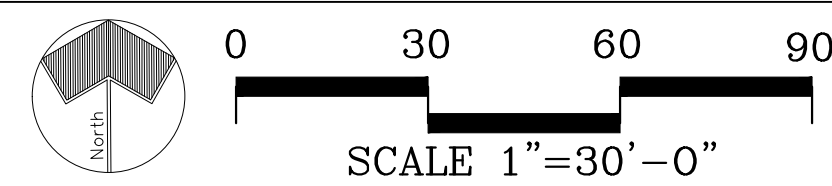
1 LANDSCAPE PLAN -C- ENLARGEMENT

Scale: 1"=30'



2 LANDSCAPE PLAN -D- ENLARGEMENT

Scale: 1"=30'



PRELIMINARY FOR ILLUSTRATIVE PURPOSES ONLY



CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

DESIGNED BY: KJM
 CHECKED BY: KJM
 DRAWN BY: KJM



BRANNAN SAND AND GRAVEL COMPANY, LLC

PIT-R CONDITIONAL USE PERMIT
 LANDSCAPE PLAN ENLARGEMENTS

ISSUE DATE:	PROJECT #:
11/25/19	190915
DATE	REVISION COMMENTS
####	####
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####	####

PRELIMINARY NOT FOR CONSTRUCTION

SHEET NO.

L1.2

03 OF 03



Development Review Team Comments

Date: 6/8/2020

Project Number: PRC2019-00020

Project Name: Brannan Sand & Gravel (Pit R)

Commenting Division: Planner Review 2nd Review

Name of Reviewer: Greg Barnes

Date: 06/08/2020

Email: gjbarnes@adcogov.org

Complete

PLN01: Landscape plans were submitted with the original application, but no landscape plan was submitted with the resubmittal package. Even with the addition of landscaping, it is unlikely that this use will be appropriate for the area, based on Criterion #4 regarding compatibility. The best path forward may be scheduling the case for public hearing.

Commenting Division: Development Engineering Review 2nd Review

Name of Reviewer: Greg Labrie

Date: 05/22/2020

Email: glabrie@adcogov.org

Complete

ENG1: The applicant will be required to complete and submit the Adams County construction permit application (INF) along with the supporting engineering documents for the proposed site improvements and right-of-way improvements. The construction permit must be reviewed and approved by Development Engineering before construction can begin.

Commenting Division: Environmental Analyst Review 2nd Review

Name of Reviewer: Katie Keefe

Date: 05/21/2020

Email:

Complete

The following are a list of potential conditions, if approved:

The applicant shall install a wind gauge, such as an anemometer, in the vicinity of crushing operations to monitor wind speeds and shall cease dust generating activities when wind speeds exceed a sustained 25 mph or gusts exceed 35 mph. Records of operation shutdown due to high winds shall be maintained and made available to Adams County upon request.

Fugitive dust control measures as prescribed within the facility's Air Pollutant Emission Notice permit as issued by CDPHE, must be in place and functioning at all times. There must be no off-property transport of visible emissions nor shall visible dust emissions exceed 20% opacity.

The applicant shall install sediment control BMPs along the site access and use a sweeper as frequently as necessary to prevent tracking and offsite transport of mud and dirt from the facility onto the public right of way.

The applicant has agreed as a condition of the permit to conduct semi-annual noise monitoring and airborne dust monitoring while crushing and recycling operations are active. Noise and air monitoring results shall be provided to the Director of Community and Economic Development within seven days of receiving monitoring results.

Aboveground petroleum storage tanks used for equipment fueling must be placed within secondary containment and meet applicable fire code requirements.

If fuel will be stored on this site:

- All fuel storage at this site shall be provided with secondary containment, which complies with State of Colorado Oil Inspection Section Regulations; and
- Fueling areas shall be separated from the rest of the site's surface area, and protected from storm water; and
- Applicant shall make available for review by the County its Spill Prevention, Control, and Countermeasures Plan.

All fluid spills such as hydraulic and oil from maintenance of equipment, shall be removed and disposed of at a facility permitted for such disposal.

Planner Comments

Case Manager: Greg Barnes

PLN01: There are three applications being submitted: Conditional use permit to allow recycling operations in the I-2 and I-3 zone districts, conditional use permit to allow accessory outdoor storage in the I-2 and I-3 zone districts, and conditional use permit to allow stacking of material over the height of fencing.

PLN02: The subject property is located within a future land use designation as "Activity Center". This designation is intended for a future land use that will accommodate a very high intensity office, residential, and commercial uses. These areas shall provide allowances for pedestrian and bicycle transportation that will promote transit uses. The proposal of recycling operations and outdoor storage is inconsistent with the County's Comprehensive Plan.

PLN03: The area is nearby a commuter rail station and the proposal may have substantial impacts on the future development of the surrounding area. Recycling operations may create off-site impacts that may also be detrimental to the surrounding neighborhood and its future development.

PLN04: Although staff may be unlikely to support this use, the chances for approval by the Board of County Commissioners will be increased if off-site impacts are strongly mitigated. We can brainstorm at the upcoming RCC on how the application can be enhanced.

PLN05: Please provide an elevation drawing of the proposed 8' wood fence.

PLN06: At the upcoming RCC, there should be further discussion of vehicle tracking onto public roadways and overall truck traffic volumes.

PLN07: It is recommended that staff and the applicant continue to assess a reduction of the proposed height of materials.

PRC2019-00020; Brannan Sand & Gravel Pit R

Request: CUP's for recycling operations, outdoor storage, and over fence height stacking of material.

Address: 2601 W 60th Avenue

CLU/FLU: I-2/ Activity Center

Plans:

SW Area Framework Plan

- Policy 14.1 Promote Clean Industrial Uses; Encourage development and redevelopment of a range of industrial uses in the Southwest Area, with particular emphasis on new clean and/ or light industrial uses.

Balanced Housing Plan- N/A

Clear Creek Valley TOD Plan (see attached maps)

Goal – Clear Creek at Federal Station

The vision for the Clear Creek at Federal Station is to create a new, vibrant, transit-oriented community amenity within walking distance of the transit station. New retail, employment, entertainment and living opportunities within the new Village Center will serve the needs of the existing community and maintain the area as an employment center for Adams County.

Station Area Goals:

Maintain and enhance existing commercial corridors

Create new connections with surrounding residential and commercial areas Revitalize older commercial and industrial areas

Encourage mixed use development

Promote sustainable development

Enhance area's role as a gateway to Southwest Adams County

Maintain and enhance existing residential neighborhoods

Improve open space and recreational opportunities

Revitalize vacant and underutilized land

TOD and Rail Station Area Planning Guidelines

- Policy: Ensure that development patterns are compatible with both the established character of the county and the new framework provided in Station Area Plans.
 - o S4. The County will discourage land use patterns in transit corridors and around transit stations that may preclude future Transit Oriented Development.
- Policy: Development intensity and density should be significantly higher in Station Areas to provide a base for a variety of housing, employment, local services and amenities that promote transit usage, encourage pedestrian activity and support a vibrant station area community.
 - o #7 Discourage low-intensity, land consumptive uses related to agriculture or heavy industry such as outdoor storage or construction staging.

Federal Blvd Framework Plan

8. Corridor Planning should address potential Federal Boulevard blight conditions and recommend improvements in visual character. The addition of pedestrian-oriented improvement to the Right-of-Way is critical in providing better accommodations for non-motorized corridor transportation. Additionally, streetscape planting should be incorporated throughout the corridor with a focus on shade trees along the east and west sides of the roadway due to the utility limitations of the center medians.
10. Corridor planning should address potential methods to land assembly for redevelopment, protection of residential neighborhoods from commercial land use and traffic encroachment, and methods to interconnect the local street grid.

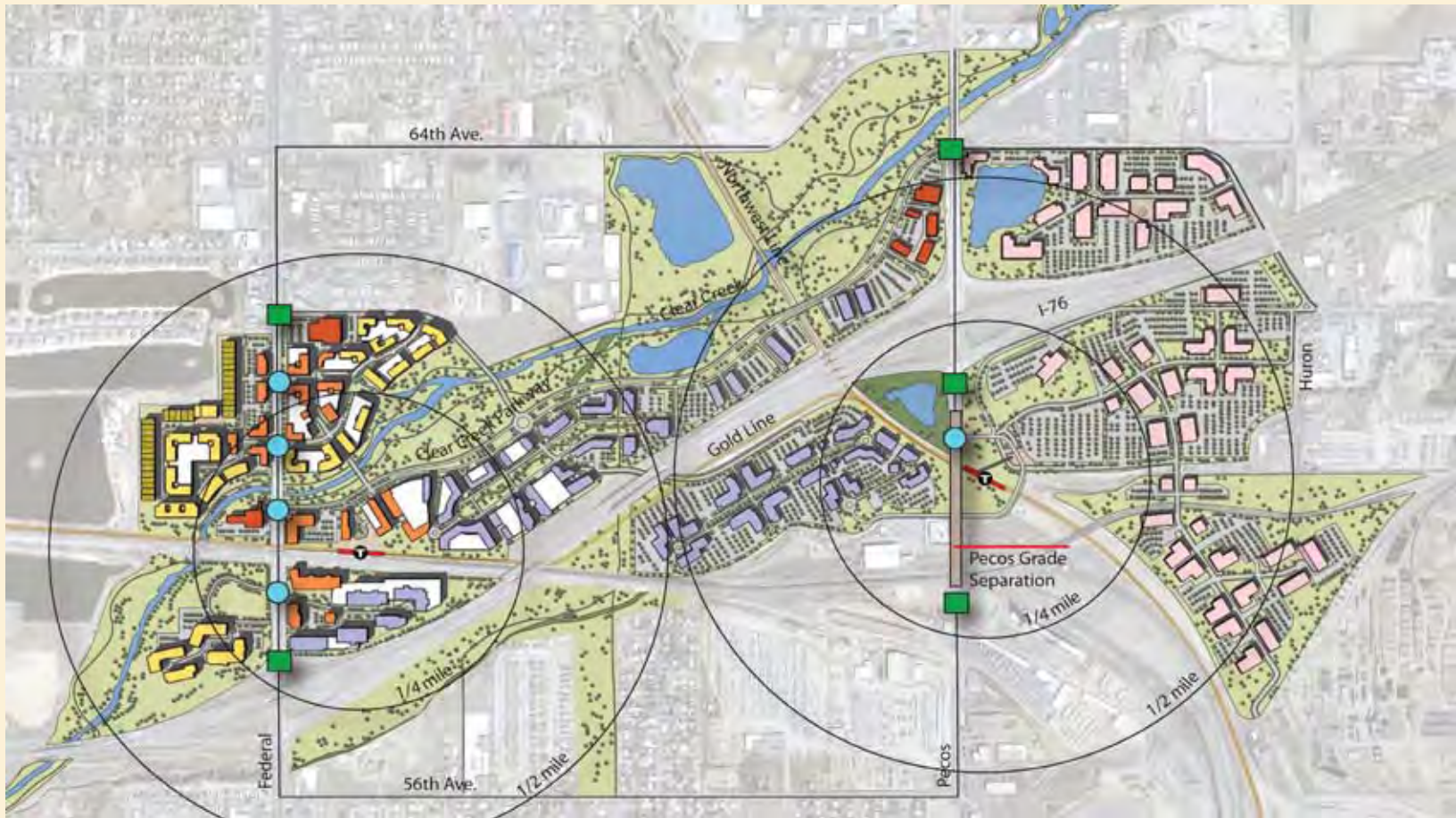
Imagine Adams Comp Plan










Activity Center- This land use category is characterized by its high intensity, mixed-use character, and high quality. The primary uses will be offices, hotels, retail, high-density residential and clean, indoor manufacturing and warehousing. Activity Centers are designated for areas that will have excellent transportation access and visibility, particularly along the FasTracks corridors. Development in Activity Centers must contain a sufficient intensity and mix of uses to create a pedestrian environment and support transit service. These centers may be especially suitable for providing a variety of housing or should be planned with due consideration of accessibility between residences and places of employment.

Making Connections

- Triangle of Opportunity. Opportunities include transit-oriented development, trail-oriented development, mixed-use development.
- 4.1 Sidewalk Program 2. Missing Sidewalk links

Option 1 - Clear Creek Parkway



- | | | | | | |
|---|---------------------------------|---|---------------------------|---|--|
|  | Retail |  | Business/office |  | Signalized intersection (needs CDOT approval) |
|  | Mixed use |  | Industrial |  | Gateway |
|  | Multi family residential |  | Structured parking | | |
|  | Single family attached | | | | |

Option 1 - Clear Creek Parkway

Approach

An approach was used that integrated the two station areas as one unified place by completing the connection of 60th Avenue from Federal Boulevard under I-76 to Pecos Street and the Pecos Junction Station. This collector road creates a new east-west connection and provides access to the Clear Creek amenity to neighborhoods and businesses south of I-76 and the rail lines. The plan is based on a future scenario of the densification that is possible after the arrival of commuter rail and opportunities for retail and residential development become a reality in the market. It has a 12-20 year planning horizon.

Overview of Option 1 - Clear Creek Parkway

Option 1 - Clear Creek Parkway is based on building a parkway north of I-76 that connects Federal Boulevard to Pecos Street along the Clear Creek amenity. The parkway expands the open space associated with the amenity and also serves to mitigate the floodplain issues in the area and enables development to occur between I-76 and the parkway. A collector road is also proposed from 62nd Avenue and Federal Boulevard east to the Pecos Station creating a second connection between the two station areas.

Parking

In the short term, surface parking will prevail at both stations. However, as the market allows and densification occurs, mixed-use structured parking with wrapped retail on the street level is recommended. The plan shows a future vision of structured parking around the Federal Station area. Future public parking will not be paid for by RTD or Adams County. In the Gold Line EIS, RTD has budgeted for surface parking through 2030.

Circulation

Both vehicular and pedestrian circulation was a primary consideration in the plan. Access east and west has been increased, and a greatly expanded network of sidewalks and trails is integral to the concept. Pedestrian priority streets will dominate in the Village Center area and all roads in the station areas will provide for bike and pedestrian circulation.

Gateways

Four gateways are noted on the plan. Whether they announce the station areas or the name of a business park, gateways become familiar landmarks that contribute to a greater sense of place and unite the various elements of the plan. Specific gateway design and area branding will need to be developed as part of an overall station identity program.



Gateway as a small median

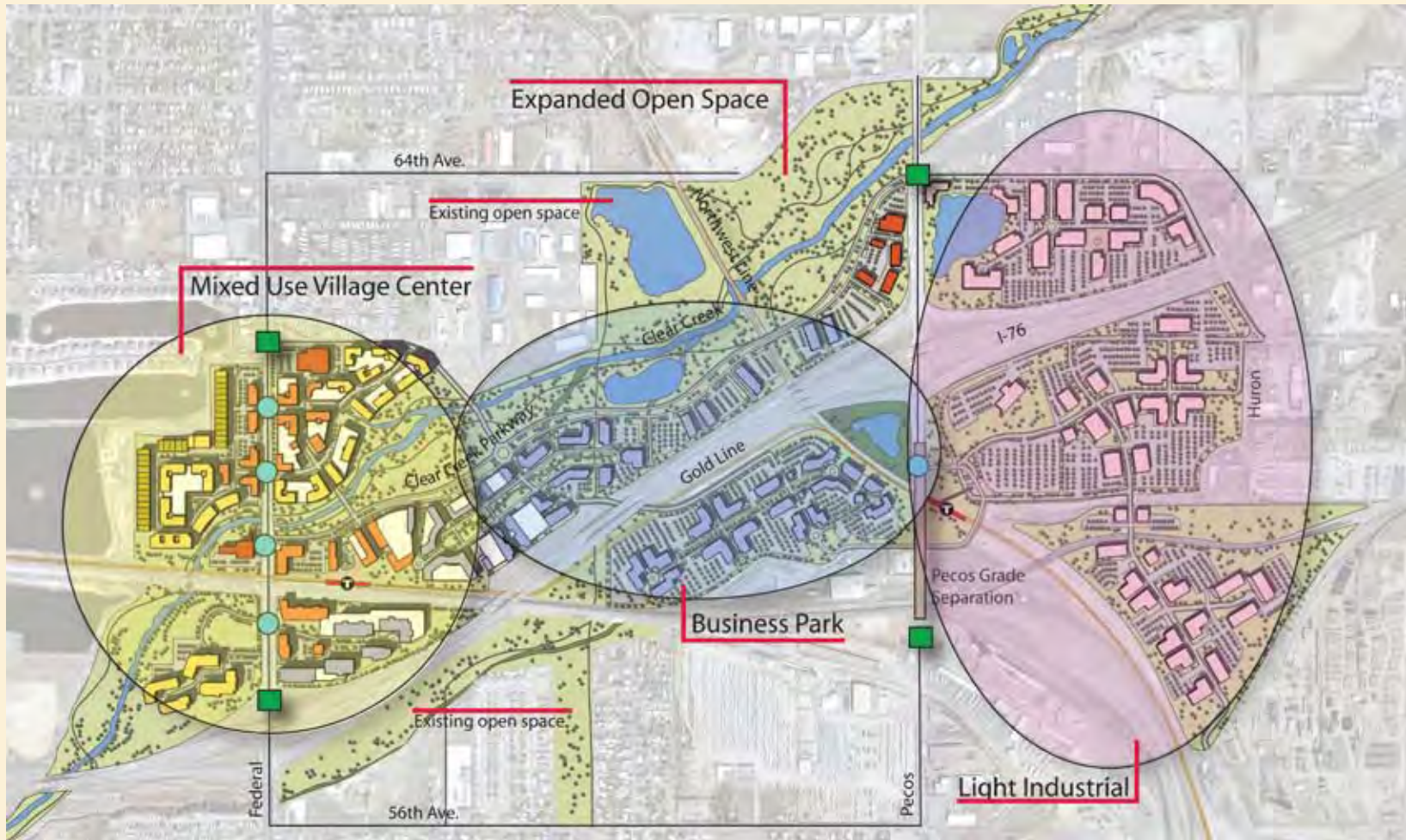


Gateway as an overhead sign



Gateway as a corner monument

Option 1 - Clear Creek Parkway



- | | | |
|--|--|--|
| Retail | Business/office | Signalized intersection (needs CDOT approval) |
| Mixed use | Industrial | Gateway |
| Multi family residential | Structured parking | |
| Single family attached | | |

Greg Barnes

From: Gordon Stevens
Sent: Thursday, December 26, 2019 10:01 AM
To: Greg Barnes
Cc: David Rausch; Juliana J. Archuleta; Russell Nelson; Monica Lovato-Ramirez; John Dyer
Subject: RE: For Review: Brannan Sand & Gravel Pit R (PRC2019-00020)
Attachments: DOCS-#6018167-v1-SUBMITTAL_BRANNAN_SAND_AND_GRAVEL_PIT_R_2601_W__60TH_AVE__GREG_BARNES_REQUEST_FOR_COMMENT.PDF

Good Morning Mr. Barnes,

Good Morning Greg,

Thank you for the opportunity to review this submittal. The Adams County Dept. of Public Works, Infrastructure Management, Construction Inspection Division offers the following comments:

- 1.) Roadway Construction will be required along this frontage of this property. The roadway must be constructed to it's ultimate width along this property frontage.
- 2.) Construction plans must be submitted to and approved by the Community and Economic Development Department prior to beginning this construction.
- 3.) Although the Platting has been completed for this site, an SIA will be required along with the appropriate collateral prior to the issuance of the Conditional Use Permit.
- 4.) This SIA and the submitted collateral must be approved by the Board of County Commissioners prior to beginning construction.
- 5.) A construction Permit must be issued prior to the work commencing.
- 6.) The roadway along this property frontage has been substantially deteriorating along this property frontage for several years, partially due to the traffic related to this site. These construction plans must reflect the repair of this roadway in it's entirety along this property frontage.
- 7.) There are several drainage related issues along the property frontage of this site. These drainage issues must also be addressed as part of the aforementioned construction plans.
- 8.) It does not appear as though the on-site drainage issues have been addressed with this site.
- 9.) No building Permit will be issued for any lot until all of the Public Improvements have been completed and have received Preliminary Acceptance from the Adams County Department of Public Works.
- 10.) A Pre-Construction Meeting will be held with the Construction Staff of the Dept. of Public Works, prior to construction beginning.

These plans will need to be resubmitted when they are complete.

Again, thank you for this opportunity to review this submittal.



Gordon Stevens

Construction Inspection Supervisor,
Department of Public Works
Infrastructure Management Division
ADAMS COUNTY, COLORADO
4430 So, Adams County Parkway,
1st Floor, Suite W2000B

Juliana Archuleta

To: Greg Barnes
Subject: FW: For Review: Brannan Sand & Gravel Pit R (PRC2019-00020) - Stormwater

I would like to add a few request as this is a site with historic issues:

Adams County Stormwater Division recommends the following:

- 1) Water quality must be provided to these operations due to the proximity to Clear Creek and the pollutants on-site (recycling concrete, oils from shingles, trash, vehicle leaks, etc)
- 2) A drainage report needs to be submitted showing water quality design for approval. Include assessment of soil compaction and stock piles material impacts on impervious areas and coefficients. Include drainage impacts of the proposed site driveway. Provide analysis for the existing berm installed around the property to avoid outfall to Clear creek. Provide berm height, material, and alignment, capacity and construction details. Review levee designations and regulations regarding the berm. Perform an inspection of the berm, provide pictures and video. Survey the berm by a professional surveyor to ensure the existing berm matches the design. Provide engineering calculations showing that the containment berm is adequate for containing all rain events and allowing them to infiltrate into the ground within 72 hours according to CRS 37-92-602(8). List applicable permits that will be triggered.
- 3) If, as a result of the drainage report, a storm outlet (pipe or channel) needs to be installed at this property, then contact CDPHE's Stormwater Industrial Permit and submit permit application. Provide copies of the permit and all supporting information (SWMP, sampling plan, etc).
- 4) Provide documentation showing Brannan has the authorization to work, store materials or stockpile on Adams County parcel # 0182508100038 located between Brannan and Clear Creek. If there is no written agreement, please relocate the berm or any other containment structure within Brannan property line. Re-store Adams County property: grade, amend soil, mulch and seed until 70% vegetation cover is established and survey and staked down the property limits. Refer to image below.
- 5) Establish a 150ft vegetation buffer zone from the top of clear Creek's slope. Provide site plan showing buffer zone. Revegetated buffer zone as needed with native seed mix according to soil type.
- 6) Provide access easement to the county to inspect the creek. Contact ROW-Marissa H.
- 7) Install a vehicle tracking pad following UDFCD details, angular clean rock 3 to 6", geotextile underneath at the access that transitions from the recycled asphalt driveway and dirt. The millings do not remove sediment from tires, a tracking pad is still needed. Call for inspection. No recycling concrete allowed. This product is not allowed because the fines have high pH and impact water quality.
- 8) Provide "Sweeping Plan" specifying sweeping frequency. No kick broom equipment, vacuum sweeper is required. Sweeping logs must be filed. Waste disposal of sweepings needs to be specified. If disposal is on-site, provide location and BMPs to prevent run-on, run-off and infiltration of pollutants into the ground.
- 9) Inspect impacts to Clear Creek's slope regularly. Remove all trash, repair all erosion, mulch and seed all bare soil areas following UDFCD details and seed mix. Document conditions with pictures and keep logs. Provide inspection results and repairs of the first inspection.
- 10) Contact David Rausch regarding drainage easement needs along the front side of the property, and Drainage issues in that area.



December 30, 2019

Greg Barnes, Planner III
Adams County Community & Economic Development Department
Transmission via email: gjbarnes@adcogov.org

Re: Brannan Sand & Gravel Pit
Case no. PRC2019-00020
Part of NW ¼ Section 8, T 3S, R 68W, 6th P.M.
Water Division 1, Water District 2

Dear Mr. Barnes:

We have received your December 17, 2019 submittal concerning the above referenced conditional use permit applications for recycling operations, accessory outdoor storage, and stacking of material uses on a 23.57-acre parcel located in the NW ¼ of Section 8, T 3S, R 68W, 6th P.M. According to the submitted information, the parcel is located in the Industrial-2 and Industrial-3 zone districts.

This referral does not appear to qualify as a “subdivision” as defined in Section 30-28-101(10)(a), C.R.S. Therefore, pursuant to the State Engineer’s March 4, 2005 and March 11, 2011 memorandums to county planning directors, this office will only perform a cursory review of the referral information and provide informal comments. The comments do not address the adequacy of the water supply plan for this project or the ability of the water supply plan to satisfy any County regulations or requirements. In addition, the comments provided herein cannot be used to guarantee a viable water supply plan or infrastructure, the issuance of a well permit, or physical availability of water.

There are no permitted wells on the property. Estimated water demand, proposed uses, and proposed water supply source were not provided. A letter dated April 3, 2019 stated that the North Washington Street Water & Sanitation District (“District”) is currently servicing this property, and that permits for additional uses such as industrial must first be obtained, subject to limitations set forth by the District. This office has no objections to this proposal.

If you or the applicant have any questions, please contact Wenli Dickinson at 303-866-3581 x8206 or at wenli.dickinson@state.co.us.

Sincerely,

Joanna Williams, P.E.
Water Resources Engineer

Ec: Subdivision file 26898



Greg Barnes

From: Rob Smetana <rsmetana@arvada.org>
Sent: Wednesday, December 18, 2019 3:17 PM
To: Greg Barnes
Subject: Re: For Review: Brannan Sand & Gravel Pit R (PRC2019-00020)

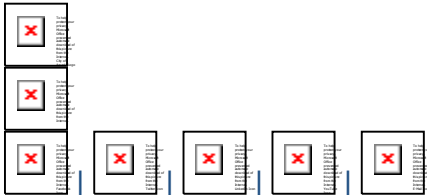
Please be cautious: This email was sent from outside Adams County

Greg,

Arvada has no concerns regarding this project. It is outside of our Comprehensive Plan and urban growth boundary areas.

Thanks for sending this for our review.

Rob Smetana, AICP
Manager of City Planning and Development
720.898.7440
rsmetana@arvada.org



On Tue, Dec 17, 2019 at 1:05 PM Greg Barnes <GJBarnes@adcogov.org> wrote:

The Adams County Planning Commission is requesting comments on the following applications: **Conditional use permit applications to allow the following uses in the Industrial-2 and Industrial-3 zone districts: 1) recycling operations, 2) accessory outdoor storage; 3) stacking of material over the height of fencing.** This request is located at 2601 West 60th Avenue. The Assessor's Parcel Number is 0182508100041.

Applicant Information: Brannan, Fred Marvel, 2500 E. Brannan Way, Denver, CO 80229

Please forward any written comments on this application to the Community and Economic Development Department at 4430 S. Adams County Parkway, Suite W2000A Brighton, CO

80601-8216, or call (720) 523-6800 by January 7, 2020 in order that your comments may be taken into consideration in the review of this case. If you would like your comments included verbatim please send your response by way of e-mail to GJBarnes@adcogov.org.

Once comments have been received and the staff report written, the staff report and notice of public hearing dates may be forwarded to you upon request. The full text of the proposed request and additional information can be obtained by contacting this office or by accessing the Adams County web site at www.adcogov.org/planning/currentcases, sometimes it may take a few business days for case material to get posted to our website.

Thank you for your review of this case.



Greg Barnes

Planner III, *Community and Economic Development Dept.*

ADAMS COUNTY, COLORADO

4430 S. Adams County Parkway, 1st Floor, Suite W2000A

Brighton, CO 80601-8216

720.523.6853 gjbarnes@adcogov.org

adcogov.org

Greg Barnes

From: Inter Governmental Plan Review <InterGovernmentalPlanReview@denverwater.org>
Sent: Friday, December 20, 2019 8:29 AM
To: Greg Barnes
Subject: RE: For Review: Brannan Sand & Gravel Pit R (PRC2019-00020)

Please be cautious: This email was sent from outside Adams County

Good Morning Greg,

Denver Water has no comments on this submittal. Please let me know if you have any questions or concerns.

Thank you,

Kela Naso | Engineering Specialist
Denver Water | t: 303-628-6302 | e: kela.naso@denverwater.org
denverwater.org | denverwaterTAP.org



From: Greg Barnes <GJBarnes@adcogov.org>
Sent: Tuesday, December 17, 2019 1:06 PM
To: Greg Barnes <GJBarnes@adcogov.org>
Subject: For Review: Brannan Sand & Gravel Pit R (PRC2019-00020)

The Adams County Planning Commission is requesting comments on the following applications: **Conditional use permit applications to allow the following uses in the Industrial-2 and Industrial-3 zone districts: 1) recycling operations, 2) accessory outdoor storage; 3) stacking of material over the height of fencing.** This request is located at 2601 West 60th Avenue. The Assessor's Parcel Number is 0182508100041.

Applicant Information: Brannan, Fred Marvel, 2500 E. Brannan Way, Denver, CO 80229

Please forward any written comments on this application to the Community and Economic Development Department at 4430 S. Adams County Parkway, Suite W2000A Brighton, CO 80601-8216, or call (720) 523-6800 by January 7, 2020 in order that your comments may be taken into consideration in the review of this case. If you would like your comments included verbatim please send your response by way of e-mail to GJBarnes@adcogov.org.

Once comments have been received and the staff report written, the staff report and notice of public hearing dates may be forwarded to you upon request. The full text of the proposed request and additional information can be obtained by contacting this office or by accessing the Adams County web site at www.adcogov.org/planning/currentcases, sometimes it may take a few business days for case material to get posted to our website.

Thank you for your review of this case.



ADAMS COUNTY FIRE RESCUE FIRE PREVENTION BUREAU

7980 Elmwood Lane
Denver, CO 80221
P: (303) 539-6862
E: fireprevention@acfpd.org

Project:	Brannan Sand & Gravel	Project Type:	ADCO Conditional Use Permit
Address:	2601 West 60 th Avenue	Date:	12/23/19
Occupancy Type:	Outdoor recycling, storage, and stacking	Reviewed By:	Whitney Even
Construction Type:	TBD	Certification #:	166304410

The plans submitted to the Adams County Planning Division have been sent to use for review and comments. At this time, the Fire District has the following comments and/or requirements:

General:

1. The 2018 International Fire Code is the current fire code adopted within the city and all development must be in compliance with its requirements. The 2018 IFC can be accessed online for free by going to <https://codes.iccsafe.org/public/document/IFC2018>. Amendments to this code can be located by going to http://www.adcogov.org/sites/default/files/Ordinance%20No.%204_1.pdf.
2. Nothing in this review is intended to approve any aspect of these plans or this project that does not strictly comply with all applicable codes and standards. Any changes that are made to the plans will require additional review and comment by the Fire District.
3. Site and building design and construction shall be in accordance with the provisions of the 2018 International Fire Code (IFC) as adopted by Adams County. All construction shall be in accordance with IFC Chapter 33, *Fire Safety During Construction and Demolition*.

Access Requirements:

1. Temporary access roads are prohibited unless specifically approved by the Fire District. Fire apparatus access must be designed and maintained to support the imposed loads of fire apparatus (i.e. 85,000 lbs), and must have a surface that provides all-weather driving capabilities.
2. Any temporary construction or permanent security gates shall be a minimum of 24 feet and a no parking fire lane sign shall be posted on the gate. The gates shall also have a Knox key switch installed for emergency operation if automatic. For information on how to order this, please go to <https://www.acfpd.org/plan-submittals.html>.
3. If the gas meter is accessible to vehicle impact bollards are required to protect it.
4. New and existing buildings or sites shall have approved address numbers, building numbers, or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Numbers shall be a minimum of 4 inches high with a minimum stroke width of 0.5 inch. Please be aware that the size of the number may need to be larger than 4 inches is not clearly visible from the street or road.

Fire Protection Water Supply and Hydrants:

5. Please provide information and plans showing the closest fire hydrants to the site.
6. Unobstructed access to fire hydrants shall be maintained at all times. Fire department personnel shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants. A 3-foot (radius) clear space shall be maintained around the circumference of fire hydrants. Within that 6-foot diameter circle and within a 6-foot-wide path leading to the 4.5-inch outlet of a hydrant, vegetation shall be no higher than 4 inches above grade. The unobstructed vertical clearance within that 6-foot circle and 6-foot approach path shall not be less than 7 feet, unless otherwise approved by the Fire District.

Other Requirements:

- ⇒ Please be aware that permits for any building structures and gates will be required by the Fire Prevention Bureau. Please call us for information on how to apply.
- ⇒ We always welcome and encourage meetings to discuss fire code requirements. Please call us at any point in the process if you would like to schedule one.

Any disagreements to these plan review comments may be addressed by contacting the Adams County Fire District offices. Further unresolved disagreements may be appealed to the Adams County Fire Board of Appeals as stated in Ordinance 4 of the amendments to the 2018 International Fire Code.

Greg Barnes

From: Woodruff, Clayton <Clayton.Woodruff@RTD-Denver.com>
Sent: Friday, January 03, 2020 2:27 PM
To: Greg Barnes
Subject: RE - Brannan Sand & Gravel Pit - (PRC2019-00020)

Please be cautious: This email was sent from outside Adams County

Greg,

The RTD has no comments regarding this project.



C. Scott Woodruff
Engineer III

Regional Transportation District
1560 Broadway, Suite 700, FAS-73 | Denver, CO 80202

o 303.299.2943 | m 303-720-2025
clayton.woodruff@rtd-denver.com



January 3, 2020

Greg Barnes
Adams County Community and Economic Development
4430 South Adams County Parkway, Suite W2000A
Brighton, CO 80601

RE: Brannan Sand and Gravel (Pit 10), PRC2019-00020
TCHD Case No. 6065

Dear Mr. Barnes,

Thank you for the opportunity to review and comment on the Conditional Use Permit for recycling operations, accessory outdoor storage, and stacking of materials of the height of the fencing located at 2601 W. 60th Avenue. Tri-County Health Department (TCHD) staff has reviewed the application for compliance with applicable environmental and public health regulations and principles of healthy community design. After reviewing the application, TCHD has the following comments.

Historic Landfill within Adams County Overlay District

In accordance with Section 3-35-03 of Chapter 3-Zone District Regulation, Flammable Gas Overlay (FGO), the subject property will need to comply with all applicable sections of the Adams County Flammable Gas Overlay (FGO). Flammable gas from decomposing organic matter in landfills may travel up to 1,000 feet from the source. At this time, construction is not proposed. At such time that construction is planned within 1,000 feet of Landfill Nos. AD-028, Ad-145, AD-008, AD-027, AD-004, AD-003, AD-234, AD-030, and AD-160, we recommend the following:

1. A flammable gas investigation should be conducted to determine if flammable gas (methane) is present in the subsurface soils at the property. The plan for the investigation should be submitted to TCHD for review and approval.
2. TCHD will review the results of the investigation. If the investigation indicates that methane is not present at or above 20% of the lower explosive limit for methane (1% by volume in air) in the soils, no further action is required.
3. In lieu of the investigation, an active flammable gas control system shall be designed and constructed to protect buildings and subsurface access to utilities, i.e. vaults, manholes, etc. from flammable gas. Health and safety practices shall be followed during construction to protect site workers.

Questions regarding this may be directed to Sheila Lynch at (720) 200-1571 or slynch@tchd.org.

Construction and Demolition Recycling Facility

Recycling of industrial materials has the potential to cause odors, ground water contamination, and nuisance conditions. The Hazardous Materials and Waste Management Division of Colorado Department of Public Health and Environment (CDPHE) regulates recycling facilities. This facility must meet the requirements of Section 8 of 6CCR 1007-2, Part 1. More information can be found at <https://www.colorado.gov/pacific/cdphe/recycling>.

Fugitive Dust – Permanent uses

Exposure to air pollution is associated with a number of health problems including asthma, lung cancer, and heart disease. The Colorado Department of Public Health and Environment Air Pollution Control Division (APCD) regulates air emissions, including fugitive dust. Control measures may be necessary to minimize the amount of fugitive emissions from site activities including haul roads, stockpiles, and erosion. The applicant shall contact the APCD, at (303) 692-3100 for more information. Additional information is available at <https://www.colorado.gov/pacific/cdphe/categories/services-and-information/environment/air-quality/business-and-industry>.

Vector Control - Storage

Rodents such as mice and rats carry diseases which can be spread to humans through contact with rodents, rodent feces, urine, or saliva, or through rodent bites. Items stored on the floor, tightly packed, and rarely moved provide potential harborage for rodents. Due to the variety of items to be potentially stored at this site, TCHD recommends that the applicant create a plan for regular pest control. Information on rodent control can be found at <http://www.tchd.org/400/Rodent-Control>.

Please feel free to contact me at 720-200-1575 or kboyer@tchd.org if you have any questions about TCHD's comments.

Sincerely,



Kathy Boyer, REHS
Land Use and Built Environment Specialist III

cc: Sheila Lynch, Monte Deatrich, Lisa Oliveto, Warren Brown, TCHD



Right of Way & Permits
1123 West 3rd Avenue
Denver, Colorado 80223
Telephone: **303.571.3306**
Facsimile: 303. 571.3284
donna.l.george@xcelenergy.com

January 3, 2020

Adams County Community and Economic Development Department
4430 South Adams County Parkway, 3rd Floor, Suite W3000
Brighton, CO 80601

Attn: Greg Barnes

Re: Brannan Sand and Gravel Pit 10, Case # PRC2019-00020

Public Service Company of Colorado's Right of Way & Permits Referral Desk has reviewed the conditional use documentation for **Brannan Sand and Gravel Pit 10** and has **no apparent conflict**.

Donna George
Right of Way and Permits
Public Service Company of Colorado dba Xcel Energy
Office: 303-571-3306 – Email: donna.l.george@xcelenergy.com

ARMOS Investments
4770 Biscayne Blvd, Ste 730
Miami, FL 33136

Community and Economic Development Department
Adams County
4430 South Adams County Parkway, Suite W2000A
Brighton, CO 80601-8216
via email: GJBarnes@adcogov.org

RE: PRC2019-00020 Brannan Sand & Gravel (Pit 10)

To Whom It May Concern:

On behalf of 2300 W 60 LLC and 2400 W60 LLC, owners of the properties located at 2300 through 2860 West 60th Avenue, thank you for the opportunity to comment on Project Number PRC2019-00020 and the proposed conditional use permit.

We understand the physical, environmental, regulatory, and market constraints complicating redevelopment of the subject property in a manner more consistent with Adams County long range plans for the area. We also understand that it is likely in both the applicant's and the County's interest for the site to remain economically viable during the interim period while area and regional studies are being completed and a site-specific plan for redevelopment is submitted and approved.

However, as the owners' of the property immediately across the street from the subject property, we feel strongly that if the County approves the proposed conditional use (or any other conditional use) the timeline and terms for achieving a viable plan for redevelopment and the terms for a clear end to the conditional use(s) should be well understood and documented as part of the County's approval.

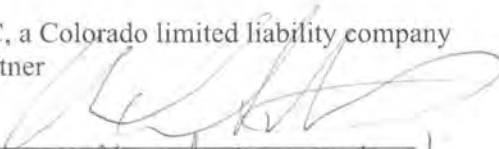
Since the application itself makes no reference to either a process or a timeline, we respectfully request to be kept informed of the application process, including receiving a copy of the staff report, notice of hearing dates, etc.

Sincerely,

2300W60, LLC, a Florida limited liability company

By: Clear Creek Station Development, LLLP, a Florida limited liability limited partnership
Its: Sole Member

By: CCSD LLC, a Colorado limited liability company
Its: General Partner

By: 
Print Name: Alexander D. Maslowitz
Title: Manager

Greg Barnes

From: Dan Micek <danmicek54@comcast.net>
Sent: Tuesday, December 17, 2019 1:39 PM
To: Greg Barnes
Subject: PRC2019-00020 Brannan Sand and Gravel

Please be cautious: This email was sent from outside Adams County

Greg
I have received and reviewed the application from Brannan Sand and Gravel.
I believe that this proposal is in line with the comprehensive plan of Adams County.
The land along Clear Creek and I-76 have been set for industrial zoning.
This company has made it clear that they fully intend to follow county regulation and I see no issue with them using this land for their purpose.
The future plans for this area are far reaching, and because of the general condition of the area, probably unattainable.
Since I do not live in the immediate area, I would be curious how the local residents feel about this project and the future plans of this location.

Dan Micek
Citizen
Adams County Colorado

Sent from [Mail](#) for Windows 10



Request for Comments

Case Name: Brannan Sand & Gravel (Pit 10)
Project Number: PRC2019-00020

December 17, 2019

The Adams County Planning Commission is requesting comments on the following applications: **Conditional use permit applications to allow the following uses in the Industrial-2 and Industrial-3 zone districts: 1) recycling operations, 2) accessory outdoor storage; 3) stacking of material over the height of fencing.** This request is located at 2601 West 60th Avenue. The Assessor's Parcel Number is 0182508100041.

Applicant Information: Brannan
Fred Marvel
2500 E. Brannan Way
Denver, CO 80229

Please forward any written comments on this application to the Community and Economic Development Department at 4430 S. Adams County Parkway, Suite W2000A Brighton, CO 80601-8216, or call (720) 523-6800 by January 6, 2020 in order that your comments may be taken into consideration in the review of this case. If you would like your comments included verbatim please send your response by way of e-mail to GJBarnes@adcogov.org.

Once comments have been received and the staff report written, the staff report and notice of public hearing dates may be forwarded to you upon request. The full text of the proposed request and additional information can be obtained by contacting this office or by accessing the Adams County web site at www.adcogov.org/planning/currentcases.

Thank you for your review of this case.

Greg Barnes
Planner III



Public Hearing Notification

Case Name:	Brannan Sand & Gravel
Case Number:	PRC2019-00020
Planning Commission Hearing Date:	July 9, 2020 at 6:00 p.m.
Board of County Commissioners Hearing Date:	July 28, 2020 at 9:30 a.m.

June 17, 2020

A public hearing has been set by the Adams County Planning Commission and the Board of County Commissioners to consider the following request: Conditional use permit applications to allow the following uses in the Industrial-2 and Industrial-3 zone districts: 1) recycling operations, 2) accessory outdoor storage; 3) stacking of material over the height of fencing. The Assessor's Parcel Number is 0182508100041. The site is located at 2601 W. 60th Avenue. The applicant is: Fred Marvel, Brannan, Brannan Sand & Gravel, 2500 E Brannan Way, Denver, CO 80229

The Planning Commission meeting will be held virtually using the Zoom video conferencing software and members of the public will be able to submit comments prior to the start of the public hearing that will then be entered into the record. For instructions on how to access the public hearing via telephone or internet, or to submit comment, please visit <http://www.adcogov.org/planning-commission> for up to date information.

The Board of County Commissioners meeting is broadcast live on the Adams County YouTube channel and members of the public will be able to submit comments prior to the start of the public hearing that will then be entered into the record. The eComment period opens when the agenda is published and closes at 4:30 p.m. the Monday prior to the noticed meeting. For instructions on how to access the public hearing and submit comments, please visit <http://www.adcogov.org/bocc> for up to date information.

These will be public hearings and any interested parties may attend and be heard. The Applicant and Representative's presence at these hearings is requested. The full text of the proposed request and additional colored maps can be obtained by accessing the Adams County Community and Economic Development Department website at www.adcogov.org/planning/currentcases.

Thank you for your review of this case.

Greg Barnes, Planner III
gjbarnes@adcogov.org, 720-523-6853

PUBLICATION REQUEST

Case Name: PRC2019-00020

Case Number: Brannan Sand & Gravel

Planning Commission Hearing Date: July 9, 2020 at 6:00 p.m.

Board of County Commissioners Hearing Date: July 28, 2020 at 9:30 a.m.

Case Manager: Greg Barnes, gibarnes@adcogov.org, 720-523-6853

Applicant: Fred Marvel, Brannan, Brannan Sand & Gravel, 2500 E Brannan Way, Denver, CO 80229

Request: Conditional use permit applications to allow the following uses in the Industrial-2 and Industrial-3 zone districts: 1) recycling operations, 2) accessory outdoor storage; 3) stacking of material over the height of fencing.

Parcel Number: 0182508100041

Address of the Request: 2601 W. 60th Avenue

Legal Description: A PARCEL OP LAND LYING IN THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 3 SOUTH, RANGE 68 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF ADAMS, STATE OF COLORADO, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID SECTION 8, THENCE SOUTH 00 DEGREES 07 MINUTES 03 SECONDS EAST, 1650.60 FEET ALONG THE EAST LINE OF SAID SECTION 8 TO A POINT ON THE SOUTH LINE OF THAT PARCEL OF LAND AS DESCRIBED IN BOOK 4180, PAGE 409, ADAMS COUNTY RECORDS, SAID POINT BEING THE TRUE POINT OF BEGINNING; THENCE SOUTH 00 DEGREES 07 MINUTES 03 SECONDS EAST ALONG THE EAST LINE OF SAID SECTION 8 920.29 FEET TO A POINT ON THE NORTH LINE OF THAT PARCEL OP LAND AS DESCRIBED IN BOOK 3374, PAGE 318, ADAMS COUNTY RECORDS, THENCE SOUTH 86 DEGREES 54 MINUTES 20 SECONDS WEST ALONG SAID NORTH LINE 169.81 FEET; THENCE SOUTH 78 DEGREES 58 MINUTES 16 SECONDS WEST ALONG SAID NORTH LINE 56.02 FEET TO THE NORTH LINE OF THAT PARCEL OF LAND AS DESCRIBED IN BOOK 3432, PAGE 154, ADAMS COUNTY RECORDS; THENCE NORTH 89 DEGREES 58 MINUTES 13 SECONDS WEST ALONG SAID NORTH, LINE 1411.70 FEET; THENCE SOUTH 49 DEGREES 53 MINUTES 18 SECONDS WEST ALONG THE NORTHWESTERLY LINE OF SAID PARCEL OF LAND DESCRIBED IN BOOK 3432, PAGE 154 A DISTANCE OF 77.56 FEET TO THE EAST-WEST CENTERLINE OF SAID SECTION 8; THENCE NORTH 89 DEGREES 58 MINUTES 13 SECONDS WEST ALONG SAID EAST-WEST CENTERLINE 183.64 FEET MORE OR LESS TO THE SOUTHERLY LINE OF THAT PARCEL OF LAND AS DESCRIBED IN BOOK 4180, PAGE 409, ADAMS COUNTY RECORDS; THENCE NORTHEASTERLY ALONG SAID SOUTHERLY LINE THE FOLLOWING SIX COURSES: 1. NORTH 49 DEGREES 25 MINUTES 25 SECONDS EAST, 122.50 FEET; 2. NORTH 47 DEGREES 42 MINUTES 36 SECONDS EAST, 356.79 FEET; 3. THENCE ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 433.51 FEET AND A CENTRAL ANGLE OF 11 DEGREES 59 MINUTES 07 SECONDS; 4. NORTH 59 DEGREES 41 MINUTES 43 SECONDS EAST, 331.34 FEET; 5. NORTH 68 DEGREES 33 MINUTES 27 SECONDS EAST, 1080.62 FEET; 6. NORTH 72 DEGREES 24 MINUTES 16 SECONDS EAST, 155.30 FEET TO THE TRUE POINT OF BEGINNING.

Virtual Meeting and Public Comment Information:

These meetings will be held virtually. Please visit <http://www.adcogov.org/planning-commission> and <http://www.adcogov.org/bocc> for up to date information on accessing the public hearings and

submitting comment prior to the hearings. The full text of the proposed request and additional colored maps can be obtained by accessing the Adams County Community and Economic Development Department website at www.adcogov.org/planning/currentcases.

Adams County Attorney's Office
Attn: Christine Fitch
4430 S Adams County Pkwy
Brighton CO 80601

Adams County Parks and Open Space Department
Attn: Marc Pedrucci

Adams County CEDD Addressing
Attn: Mark Alessi
PLN

Adams County Parks and Open Space Department
Attn: Aaron Clark

Adams County CEDD Development Services Engineer
Attn: Devt. Services Engineering
4430 S. Adams County Pkwy.
Brighton CO 80601

Adams County Sheriff's Office
Attn: Rick Reigenborn

Adams County CEDD Right-of-Way
Attn: Mark Alessi
4430 S. Adams County Pkwy.
Brighton CO 80601

Adams County Sheriff's Office
Attn: - -

Adams County Community & Economic Development Departm
Attn: Gina Maldonado
4430 S. Adams County Pkwy
Brighton CO 80601

Adams County Treasurer
Attn: Lisa Culpepper
4430 S. Adams County Pkwy.
Brighton CO 80601

Adams County Community Safety & Wellbeing, Neighborhood
Attn: Gail Moon
4430 S. Adams County Pkwy.
Brighton CO 80601

Arvada Fire Department
Attn: Steven Parker
7903 Alison Way
Arvada CO 80005

Adams County Construction Inspection
Attn: Gordon .Stevens
4430 S. Adams County Pkwy
Brighton CO 80601

BERKELEY NEIGHBORHOOD ASSOC.
Attn: GLORIA RUDDEN
4420 W 52ND PL.
DENVER CO 80212

Adams County Development Services - Building
Attn: Justin Blair
4430 S Adams County Pkwy
Brighton CO 80601

BERKELEY WATER
Attn: Paul Peloquin
4455 W 58TH AVE UNIT A
Arvada CO 80002

Adams County Fire Protection District
Attn: Jerry Means
8055 N. WASHINGTON ST.
DENVER CO 80229

BERKELEY WATER & SAN DISTRICT
Attn: SHARON WHITEHAIR
4455 W 58TH AVE UNIT A
ARVADA CO 80002

Adams County Fire Rescue
Attn: Whitney Even
7980 Elmwood Lane
Denver CO 80221

CDOT Colorado Department of Transportation
Attn: Bradley Sheehan
2829 W. Howard Pl.
2nd Floor
Denver CO 80204

Century Link, Inc
Attn: Brandyn Wiedreich
5325 Zuni St, Rm 728
Denver CO 80221

City of Arvada
Attn: Rob Smetana
8101 Ralston Rd.
Arvada CO 80002

City of Arvada Utilities
Attn: Sharon Israel
8101 Ralston Rd.
Arvada CO 80002

CITY OF WESTMINSTER
Attn: Rita McConnell
4800 W 92ND AVE.
WESTMINSTER CO 80031

CITY OF WESTMINSTER
Attn: Andy Walsh
4800 W 92nd Avenue
WESTMINSTER CO 80031

COLO DIV OF WATER RESOURCES
Attn: Joanna Williams
OFFICE OF STATE ENGINEER
1313 SHERMAN ST., ROOM 818
DENVER CO 80203

COLO DIV OF WATER RESOURCES
Attn: Joanna Williams
OFFICE OF STATE ENGINEER
1313 SHERMAN ST., ROOM 818
DENVER CO 80203

COLORADO DEPT OF TRANSPORTATION
Attn: Steve Loeffler
2000 S. Holly St.
Region 1
Denver CO 80222

COLORADO DIVISION OF WILDLIFE
Attn: Matt Martinez
6060 BROADWAY
DENVER CO 80216-1000

COLORADO DIVISION OF WILDLIFE
Attn: Serena Rocksund
6060 BROADWAY
DENVER CO 80216

COLORADO GEOLOGICAL SURVEY
Attn: Jill Carlson
1500 Illinois Street
Golden CO 80401

Colorado Geological Survey: CGS_LUR@mines.edu
Attn: Jill Carlson
Mail CHECK to Jill Carlson

COMCAST
Attn: JOE LOWE
8490 N UMITILLA ST
FEDERAL HEIGHTS CO 80260

Crestview Water & Sanitation
Attn: Patrick Stock
7145 Mariposa St
PO Box 21299
Denver CO 80221-0299

Division of Mining and Reclamation Safety
Attn: Jared Ebert
Colorado Department of Natural Resources
1313 Sherman St., #215
Denver CO 80203

GOAT HILL
Attn: SHARON WHITEHAIR
2901 W 63RD
AVE SP:0047
DENVER CO 80221

MAPLETON SCHOOL DISTRICT #1
Attn: CHARLOTTE CIANCIO
591 E. 80TH AVE
DENVER CO 80229

METRO WASTEWATER RECLAMATION
Attn: CRAIG SIMMONDS
6450 YORK ST.
DENVER CO 80229

MOBILE GARDENS
Attn: VERA MARIE JONES
6250 FEDERAL #29
DENVER CO 80221

North Lincoln Water and Sanitation District
Attn: JORGE HINOJOS
1560 Broadway
Suite 1400
Denver CO 80202

North Lincoln Water and Sanitation District
Attn: - -

TRI-COUNTY HEALTH DEPARTMENT
Attn: MONTE DEATRICH
4201 E. 72ND AVENUE SUITE D
COMMERCE CITY CO 80022

North Pecos Water & Sanitation District
Attn: Russell Traska
6900 Pecos St
Denver CO 80221

Tri-County Health: Mail CHECK to Sheila Lynch
Attn: Tri-County Health
landuse@tchd.org

NORTHRIDGE ESTATES AT GOLD RUN HOA
Attn: SHANE LUSSIER
14901 E Hampden Ave
Suite 320
AURORA CO 80014

UNION PACIFIC RAILROAD
Attn: Anna Dancer
1400 DOUGLAS ST STOP 1690
OMAHA NE 68179

NS - Code Compliance
Attn: Kerry Gress
kgress@adcogovorg

United States Postal Service
Attn: Arlene Vickrey

Pecos Park Logistics Park Metro District
Attn: M Mitchell
4221 Brighton Blvd
Denver CO 802163719

United States Postal Service
Attn: Jason Eddleman

PERL MACK NEIGHBORHOOD GROUP
Attn: DAN MICEK - PRESIDENT
7294 NAVAJO ST.
DENVER CO 80221

US EPA
Attn: Stan Christensen
1595 Wynkoop Street
DENVER CO 80202

Pomponio Terrace Metropolitan District
Attn: Zachary White
2154 E. Commons Avenue, #2000
Centennial CO 80122

WESTMINSTER FIRE DEPT.
Attn: CAPTAIN DOUG HALL
9110 YATES ST.
WESTMINSTER CO 80031

REGIONAL TRANSPORTATION DIST.
Attn: Engineering RTD
1560 BROADWAY SUITE 700
DENVER CO 80202

WESTMINSTER SCHOOL DISTRICT #50
Attn: Jackie Peterson
7002 Raleigh Street
WESTMINSTER CO 80030

The TOD Group
Attn: THE TOD GROUP
1431 Euterpe Street
New Orleans LA 70130

Xcel Energy
Attn: Donna George
1123 W 3rd Ave
DENVER CO 80223

TRI-COUNTY HEALTH DEPARTMENT
Attn: Sheila Lynch
6162 S WILLOW DR, SUITE 100
GREENWOOD VILLAGE CO 80111

Xcel Energy
Attn: Donna George
1123 W 3rd Ave
DENVER CO 80223

2300W60 LLC
C/O CCSD-COLORADO LLC
4770 BISCAYNE BLVD STE 700
MIAMI FL 33137-3244

BEACH62 LLC
3535 LARIMER ST
DENVER CO 80205-2421

2400W60 LLC
C/O CCSD- COLORADO LLC
4770 BISCAYNE BLVD STE 710
MIAMI FL 33137-3244

BERKELEY POINTE LLC
2405 W 56TH AVE
DENVER CO 80221-1809

5999 PECOS LLC UND 92.1875% AND
ACJW LLC UND 7.8125% INT
4880 PEARL ST
BOULDER CO 80301-2454

BOARD OF COUNTY COMMISSIONERS OF
ADAMS COUNTY
4430 SOUTH ADAMS COUNTY PKWY
BRIGHTON CO 80601-8204

6232 BEACH LLC
PO BOX 1719
ARVADA CO 80001-1719

CARRASCO MARIA P
2360 W 58TH AVE
DENVER CO 80221

67TH STREET ACQUISITIONS LLC
500 W 67TH STREET
LOVELAND CO 80538

CC W64TH AVE LLC
4007 BRYANT ST
DENVER CO 80211-2117

ADAMS COUNTY
4430 SOUTH ADAMS COUNTY PKWY
BRIGHTON CO 80601-8204

CHERFEIN JOINT VENTURE LLC
3535 LARIMER ST
DENVER CO 80205-2421

ADAMS COUNTY
4430 S ADAMS COUNTY PKWY
BRIGHTON CO 80601

CIROCKI VIOLA M TRUST THE UND 64.4% AND
CIROCKI FAMILY TRUST THE UND 35.6% INT
8610 HOLMAN CIRCLE
ARVADA CO 80005-5957

ALOHA BEACH DEVELOPMENT CORP
3556 W 62ND AVENUE
DENVER CO 80221

COUNTY OF ADAMS
4430 S ADAMS COUNTY PKWY FL 5
BRIGHTON CO 80601-8222

APODACA FAMILY REALTY TRUST THE
2241 W 59TH PLACE
DENVER CO 80221

COUNTY OF ADAMS THE
4430 S ADAMS COUNTY PKWY
BRIGHTON CO 80601-8222

ATR HOLDINGS LLC
13490 IVY ST
THORNTON CO 80602-9223

COUNTY OF ADAMS THE
4430 SOUTH ADAMS COUNTY PKWY
BRIGHTON CO 80601-8204

CST METRO LLC
1 VALERO WAY
SAN ANTONIO TX 78249-1616

FED60 LLC
3535 LARIMER ST
DENVER CO 80205-2421

DEEDS BETH A
8800 GROVE ST
WESTMINSTER CO 80031-3329

FED61 LLC
3535 LARIMER ST
DENVER CO 80205-2421

DENNIS PROPERTIES LLC
8175 W CLIFTON AVE
LITTLETON CO 80128-5587

FED62 LLC
3535 LARIMER ST
DENVER CO 80205-2421

DENVER TRANSIT ORIENTED DEVELOPMENT
FUND LLC
1431 EUTERPE ST
NEW ORLEANS LA 70130-4405

GRAEME JOHNSTON LLC
PO BOX 3717
DILLON CO 80435-3717

DISNER PATRICK HENRY AND
DISNER KATHLEEN I
250 CARRICO ST
PAGOSA SPRINGS CO 81147

GWE L P
6320 BEACH STREET
DENVER CO 80221

EGLI JAMES E
6231 BEACH STREET UNIT C
DENVER CO 80221

HEPP MICHAEL J
13937 LEXINGTON PL
WESTMINSTER CO 80023-9386

ELMS BLESSING LLC
14580 W 56TH PL
ARVADA CO 80002-1154

HOLDCROFT EDWARD
8343 ADAMS WAY
DENVER CO 80221-3905

ELMS BLESSING LLC
C/O FRED J ELMS, MANAGING MEMBER
14580 W 56TH PLACE
ARVADA CO 80002

HOWARD GREGORY A TRUST THE AND
HOWARD KAREN R TRUST THE
10789 BRYANT COURT
WESTMINSTER CO 80234

FED57 LLC
3535 LARIMER ST
DENVER CO 80205-2421

JUNG CHUL W
6231 FEDERAL BLVD
DENVER CO 80221-2005

FED58 LLC
3535 LARIMER ST
DENVER CO 80205-2421

JUNG CHUL WOO
6231 N FEDERAL BLVD
DENVER CO 80221

KING LYNETTA ARCHER
412 CHALET DR
BLACK HAWK CO 80422-8722

PULL-N-SAVE AUTO PARTS LLC
5846 CROSSINGS BLVD
ANTIOCH TN 37013-3129

MARTIN MARIETTA MATERIALS INC
C/O BADEN TAX MANAGEMENT
FORT WAYNE IN 46898-8040

PULL-N-SAVE AUTO PARTS LLC
1550 N MEADOWCREST BLVD
CRYSTAL RIVER FL 34429-5756

MATHIAS ERIC J AND
MATHIAS KARLA A
6271 BEACH ST UNIT B
DENVER CO 80221-2072

QUIKRETE COMPANIES INC THE
C/O KAREN KULP
3490 PIEDMONT RD STE 1300
ATLANTA GA 30305-4811

MINER JOHN
PO BOX 577
CASTLE ROCK CO 80104-0577

QUIKRETE COMPANIES INC THE
C/O KAREN KULP
5 CONCOURSE PKWY STE 1900
ATLANTA GA 30328-6111

MOBILE GARDENS LLC
31200 NORTHWESTERN HWY
FARMINGTON HILLS MI 48334-5900

RBR PROPERTIES LLC
6202 BEACH ST
DENVER CO 80221-2033

NORTHRIDGE ESTATES AT GOLD RUN
HOMEOWNERS ASSOCIATION
2305 CANYON BLVD SUITE 200
BOULDER CO 80302

REEFER WARE LLC
3535 LARIMER ST
DENVER CO 80205-2421

PATRICK DEWEY R AND
PATRICK RHONDA A
9520 S FIELD WAY
LITTLETON CO 80127

REGIONAL TRANSPORTATION DISTRICT
1600 BLAKE ST
DENVER CO 80202-1399

PECOS LOGISTICS PARK LLLP
4221 BRIGHTON BLVD
DENVER CO 80216-3719

RHINER GERALD
5015 W 69TH AVE
WESTMINSTER CO 80030-5711

PIONEER MHP LLC 86% INT AND
WAYSIDE COLORADO LLC 14% INT
49 SW FLAGLER AVE STE 201
STUART FL 34994-2148

ROHRER BROTHERS LLC
PO BOX 61035
DENVER CO 80206-1035

PIT 10 LLC
2500 E BRANNAN WY
DENVER CO 80229

SHOTCRETE YARD LLC
8250 S ALBION ST
CENTENNIAL CO 80122-3909

SILVER HOLDINGS LLC
2150 W 60TH AVE APT S
DENVER CO 80221-6623

ARROYOS EDUARDO
OR CURRENT RESIDENT
2661 W 58TH AVE
DENVER CO 80221-1854

STATE HIGHWAY DEPT
2000 S HOLLY ST
DENVER CO 80222-4818

AVILA LYDIA AND OLIVAS-AVILA KAILEEN LIZETTE
AND
OLIVAS-AVILA BYANKA YAZMIN
OR CURRENT RESIDENT
2681 W 58TH AVE
DENVER CO 80221-1854

STEP 13 INC
2029 LARIMER ST
DENVER CO 80205-2014

CANO IMELDA AND
CANO DELORES
OR CURRENT RESIDENT
2381 W 59TH PL
DENVER CO 80221-1834

UNION PACIFIC RAILROAD
PROPERTY TAX DEPARTMENT
1400 DOUGLAS STOP 1640
OMAHA NE 68179-1640

CARDOZA JOSE LIUS GUERECA
OR CURRENT RESIDENT
2270 W 59TH PL
DENVER CO 80221-6615

UNION PACIFIC RAILROAD COMPANY
C/O PROPERTY TAX DEPARTMENT
1400 DOUGLAS STOP 1690
OMAHA NE 68179-1640

CHAVEZ ALEJANDRO BARRAZA
OR CURRENT RESIDENT
2551 W 58TH AVENUE
DENVER CO 80221

VALDEZ RICHARD T AND
VALDEZ BARBARA G
2341 W 58TH AVE
DENVER CO 80221-1827

CHOICE IV INVESTMENTS LLP
OR CURRENT RESIDENT
2080 W 60TH AVE
DENVER CO 80221-6631

WEST SPANISH CONGREGATION OF JEHOVAH S
WITNESSES/ C/O MANUEL MENDEZ
2675 W 56TH AVE
DENVER CO 80221-1811

CLARK JAMES ROBERT FAMILY TRUST THE
OR CURRENT RESIDENT
2300 W 59TH PL
DENVER CO 80221-1835

6141 FEDERAL BLVD LLC
OR CURRENT RESIDENT
6141 FEDERAL BLVD
DENVER CO 80221

COWAN DAVID E AND
COWAN GAIL LEONE
OR CURRENT RESIDENT
2291 W 59TH PL
DENVER CO 80221-6614

AABAK ED
OR CURRENT RESIDENT
5781 CLAY STREET
DENVER CO 80221

CROWLEY DAVID P AND
CROWLEY LORRAINE K
OR CURRENT RESIDENT
2450 W 63RD CT
DENVER CO 80221-2031

APODACA GIL S
OR CURRENT RESIDENT
2241 W 59TH PL
DENVER CO 80221-6614

DECKER JOHN L AND
DECKER DIANNA L
OR CURRENT RESIDENT
2341 W 59TH PL
DENVER CO 80221-1834

DIETZ ERIC
OR CURRENT RESIDENT
2230 W 59TH PL
DENVER CO 80221-6613

MONDRAGON AUGUSTINE ROBERT AND
MONDRAGON DORIS F
OR CURRENT RESIDENT
2531 W 58TH AVE
DENVER CO 80221

EGLI JAMES E
OR CURRENT RESIDENT
6231 BEACH STREET UNIT C
DENVER CO 80221

RBR PROPERTIES LLC
OR CURRENT RESIDENT
6202 BEACH ST
DENVER CO 80221-2033

GLOECKLER AARON AND
GLOECKLER KELLY
OR CURRENT RESIDENT
6271 BEACH ST UNIT F
DENVER CO 80221-2072

RWF ENTERPRISES LLC
OR CURRENT RESIDENT
2510 W 63RD CT
DENVER CO 80221-2031

HERNANDEZ JOEL DIAZ
OR CURRENT RESIDENT
6271 BEACH ST UNIT D
DENVER CO 80221-2072

SANCHEZ LOYA CARMEN AND
RODRIGUEZ RAFAEL J
OR CURRENT RESIDENT
2391 W 59TH PL
DENVER CO 80221-1834

HERNANDEZ JOHN A AND
HERNANDEZ GERALDINE
OR CURRENT RESIDENT
2641 W 58TH AVE
DENVER CO 80221-1854

SILVER HOLDINGS LLC
OR CURRENT RESIDENT
2150 W 60TH AVE
DENVER CO 80221-6623

L NOTHHAFT AND SON INC
OR CURRENT RESIDENT
2520 W 62ND CT
DENVER CO 80221-2030

SUFI IMRAN
OR CURRENT RESIDENT
2591 W 58TH AVE
DENVER CO 80221-1854

MALLORY SEAN
OR CURRENT RESIDENT
2250 W 59TH PL
DENVER CO 80221-6615

TRAN TRUNG Q AND
TRAN THY N
OR CURRENT RESIDENT
2621 W 58TH AVE
DENVER CO 80221

MARTINEZ ALBERT V JR
OR CURRENT RESIDENT
2271 W 59TH PL
DENVER CO 80221-6614

VALDEZ RICHARD T AND
VALDEZ BARBARA G
OR CURRENT RESIDENT
2341 W 58TH AVE
DENVER CO 80221-1827

MATHIAS AND MELTON LLC
OR CURRENT RESIDENT
6271 BEACH STREET C
DENVER CO 80221

VAZQUEZ JOSE LUIS AND
VAZQUEZ MARIA R
OR CURRENT RESIDENT
2571 W 58TH AVE
DENVER CO 80221-1854

MATHIAS ERIC J AND
MATHIAS KARLA A
OR CURRENT RESIDENT
6271 BEACH ST UNIT B
DENVER CO 80221-2072

VIGIL JUAN E II
OR CURRENT RESIDENT
2301 W 59TH PL
DENVER CO 80221-1834

WEST SPANISH CONGREGATION OF JEHOVAH S
WITNESSES/ C/O MANUEL MENDEZ
OR CURRENT RESIDENT
2675 W 56TH AVE
DENVER CO 80221-1811

CURRENT RESIDENT
3061 W 58TH AVE
DENVER CO 80221-1902

YOUNG JAMES FRANK AND
YOUNG STEVEN DAVID
OR CURRENT RESIDENT
2290 W 59TH PL
DENVER CO 80221-6615

CURRENT RESIDENT
3060 W 58TH AVE
DENVER CO 80221-1905

CURRENT RESIDENT
5855 FEDERAL BLVD
DENVER CO 80221-1805

CURRENT RESIDENT
2901 W 63RD AVE LOT 32A
DENVER CO 80221-2000

CURRENT RESIDENT
5800 FEDERAL BLVD
DENVER CO 80221-1806

CURRENT RESIDENT
2901 W 63RD AVE LOT 33A
DENVER CO 80221-2000

CURRENT RESIDENT
2685 W 56TH AVE
DENVER CO 80221-1811

CURRENT RESIDENT
2901 W 63RD AVE LOT 34A
DENVER CO 80221-2000

CURRENT RESIDENT
5901 FEDERAL BLVD
DENVER CO 80221-1813

CURRENT RESIDENT
2901 W 63RD AVE LOT 35A
DENVER CO 80221-2000

CURRENT RESIDENT
2860 W 60TH AVE
DENVER CO 80221-1818

CURRENT RESIDENT
2901 W 63RD AVE LOT 36A
DENVER CO 80221-2000

CURRENT RESIDENT
2400 W 60TH AVE
DENVER CO 80221-1825

CURRENT RESIDENT
2901 W 63RD AVE LOT 37A
DENVER CO 80221-2000

CURRENT RESIDENT
5900 FEDERAL BLVD UNIT A
DENVER CO 80221-1872

CURRENT RESIDENT
2901 W 63RD AVE LOT 38A
DENVER CO 80221-2000

CURRENT RESIDENT
5900 FEDERAL BLVD UNIT B
DENVER CO 80221-1872

CURRENT RESIDENT
6000 FEDERAL BLVD
DENVER CO 80221-2002

CURRENT RESIDENT
6199 FEDERAL BLVD
DENVER CO 80221-2003

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 15
DENVER CO 80221-2009

CURRENT RESIDENT
6100 FEDERAL BLVD
DENVER CO 80221-2004

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 16
DENVER CO 80221-2009

CURRENT RESIDENT
6201 FEDERAL BLVD
DENVER CO 80221-2005

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 17
DENVER CO 80221-2009

CURRENT RESIDENT
6231 FEDERAL BLVD
DENVER CO 80221-2005

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 18
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 1
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 19
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 10
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 2
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 11
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 20
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 12
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 3
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 13
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 4
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 14
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 5
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 6
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 27
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 7
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 28
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 8
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 29
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 9
DENVER CO 80221-2009

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 30
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 21
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 31
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 22
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 32
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 23
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 33
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 24
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 34
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 25
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 35
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 26
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 36
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 37
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 47
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 38
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 48
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 39
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 49
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 40
DENVER CO 80221-2010

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 50
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 41
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 51
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 42
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 52
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 43
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 53
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 44
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 54
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 45
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 55
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 46
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 56
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 57
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 67
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 58
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 68
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 59
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 69
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 60
DENVER CO 80221-2011

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 70
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 61
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 71
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 62
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 72
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 63
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 73
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 64
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 74
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 65
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 75
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 66
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 76
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 77
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 86
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 78
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 87
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 79
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 88
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 80
DENVER CO 80221-2012

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 89
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 100
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 90
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 81
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 91
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 82
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 92
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 83
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 93
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 84
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 94
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 85
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 95
DENVER CO 80221-2013

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 96
DENVER CO 80221-2013

CURRENT RESIDENT
2901 W 63RD AVE LOT 31A
DENVER CO 80221-2024

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 97
DENVER CO 80221-2013

CURRENT RESIDENT
2901 W 63RD AVE LOT 31B
DENVER CO 80221-2024

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 98
DENVER CO 80221-2013

CURRENT RESIDENT
2901 W 63RD AVE LOT 31C
DENVER CO 80221-2024

CURRENT RESIDENT
6250 FEDERAL BLVD LOT 99
DENVER CO 80221-2013

CURRENT RESIDENT
2901 W 63RD AVE LOT 31D
DENVER CO 80221-2024

CURRENT RESIDENT
6140 FEDERAL BLVD
DENVER CO 80221-2014

CURRENT RESIDENT
2901 W 63RD AVE LOT 31E
DENVER CO 80221-2024

CURRENT RESIDENT
6150 FEDERAL BLVD
DENVER CO 80221-2014

CURRENT RESIDENT
2901 W 63RD AVE LOT 31F
DENVER CO 80221-2024

CURRENT RESIDENT
6160 FEDERAL BLVD
DENVER CO 80221-2014

CURRENT RESIDENT
2901 W 63RD AVE LOT 31G
DENVER CO 80221-2024

CURRENT RESIDENT
6190 FEDERAL BLVD
DENVER CO 80221-2014

CURRENT RESIDENT
2901 W 63RD AVE LOT 88
DENVER CO 80221-2026

CURRENT RESIDENT
2901 W 63RD AVE OFC OFC
DENVER CO 80221-2016

CURRENT RESIDENT
2901 W 63RD AVE LOT 89
DENVER CO 80221-2026

CURRENT RESIDENT
6001 FEDERAL BLVD BLDG B
DENVER CO 80221-2022

CURRENT RESIDENT
2901 W 63RD AVE LOT 90
DENVER CO 80221-2026

CURRENT RESIDENT
2901 W 63RD AVE LOT 91
DENVER CO 80221-2026

CURRENT RESIDENT
6351 BEACH ST
DENVER CO 80221-2032

CURRENT RESIDENT
2901 W 63RD AVE LOT 92
DENVER CO 80221-2026

CURRENT RESIDENT
6232 BEACH ST
DENVER CO 80221-2033

CURRENT RESIDENT
2901 W 63RD AVE LOT 93
DENVER CO 80221-2026

CURRENT RESIDENT
2880 W 62ND AVE
DENVER CO 80221-2046

CURRENT RESIDENT
2901 W 63RD AVE LOT 94
DENVER CO 80221-2026

CURRENT RESIDENT
2890 W 62ND AVE
DENVER CO 80221-2046

CURRENT RESIDENT
2901 W 63RD AVE LOT 95
DENVER CO 80221-2026

CURRENT RESIDENT
2901 W 63RD AVE LOT 1
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 96
DENVER CO 80221-2026

CURRENT RESIDENT
2901 W 63RD AVE LOT 10
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 97
DENVER CO 80221-2026

CURRENT RESIDENT
2901 W 63RD AVE LOT 12
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 98
DENVER CO 80221-2026

CURRENT RESIDENT
2901 W 63RD AVE LOT 14
DENVER CO 80221-2063

CURRENT RESIDENT
2430 W 62ND CT
DENVER CO 80221-2030

CURRENT RESIDENT
2901 W 63RD AVE LOT 15
DENVER CO 80221-2063

CURRENT RESIDENT
6331 BEACH ST
DENVER CO 80221-2032

CURRENT RESIDENT
2901 W 63RD AVE LOT 16
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 17
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 6
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 18
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 7
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 19
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 8
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 1A
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 9
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 2
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 21
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 20
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 22
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 3
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 23
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 3A
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 24
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 4
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 25
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 5
DENVER CO 80221-2063

CURRENT RESIDENT
2901 W 63RD AVE LOT 26
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 27
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 37
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 28
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 38
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 29
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 39
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 30
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 40
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 31
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 41
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 32
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 42
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 33
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 43
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 34
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 44
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 35
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 45
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 36
DENVER CO 80221-2064

CURRENT RESIDENT
2901 W 63RD AVE LOT 46
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 47
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 57
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 48
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 58
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 49
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 59
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 50
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 60
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 51
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 61
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 52
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 62
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 53
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 63
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 54
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 64
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 55
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 65
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 56
DENVER CO 80221-2065

CURRENT RESIDENT
2901 W 63RD AVE LOT 66
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 67
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 77
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 68
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 78
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 69
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 79
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 70
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 80
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 71
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 81
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 72
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 82
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 73
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 83
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 74
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 84
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 75
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 85
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 76
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 86
DENVER CO 80221-2066

CURRENT RESIDENT
2901 W 63RD AVE LOT 87
DENVER CO 80221-2066

CURRENT RESIDENT
2600 W 62ND AVE
DENVER CO 80221-2466

CURRENT RESIDENT
2901 W 63RD AVE LOT 11
DENVER CO 80221-2067

CURRENT RESIDENT
2211 W 59TH PL
DENVER CO 80221-6614

CURRENT RESIDENT
6271 BEACH ST UNIT A
DENVER CO 80221-2072

CURRENT RESIDENT
2231 W 59TH PL
DENVER CO 80221-6614

CURRENT RESIDENT
6271 BEACH ST UNIT E
DENVER CO 80221-2072

CURRENT RESIDENT
2200 W 60TH AVE UNIT A
DENVER CO 80221-6621

CURRENT RESIDENT
6271 BEACH ST UNIT G
DENVER CO 80221-2072

CURRENT RESIDENT
2200 W 60TH AVE UNIT B
DENVER CO 80221-6621

CURRENT RESIDENT
6231 BEACH ST UNIT A
DENVER CO 80221-2073

CURRENT RESIDENT
2200 W 60TH AVE UNIT C
DENVER CO 80221-6621

CURRENT RESIDENT
6231 BEACH ST UNIT B
DENVER CO 80221-2073

CURRENT RESIDENT
2200 W 60TH AVE UNIT D
DENVER CO 80221-6621

CURRENT RESIDENT
6231 BEACH ST UNIT D
DENVER CO 80221-2073

CURRENT RESIDENT
2200 W 60TH AVE UNIT E
DENVER CO 80221-6621

CURRENT RESIDENT
2400 W 64TH AVE
DENVER CO 80221-2325

CURRENT RESIDENT
2200 W 60TH AVE UNIT F
DENVER CO 80221-6621

CURRENT RESIDENT
2660 W 64TH AVE
DENVER CO 80221-2330

CURRENT RESIDENT
2180 W 60TH AVE
DENVER CO 80221-6623

CURRENT RESIDENT
2000 W 60TH AVE
DENVER CO 80221-6631

CURRENT RESIDENT
5929 PECOS ST
DENVER CO 80221-6646

CERTIFICATE OF POSTING



I, J. Gregory Barnes do hereby certify that I posted the property at 2601 W. 60th Avenue on June 23, 2020, in accordance with the requirements of the Adams County Development Standards and Regulations.

J. Gregory Barnes

Brannan Sand & Gravel

PRC2019-00020

2601 W. 60th Avenue

November 10, 2020

Board of County Commissioners Public Hearing
Community and Economic Development Department

Case Manager: Greg Barnes



Requests

1. Conditional use permit application to allow recycling operations in the Industrial-2 and Industrial-3 zone districts;
2. Conditional use permit application to allow accessory outdoor storage in excess of ten acres in the Industrial-2 and Industrial-3 zone districts;
3. Conditional use permit application to allow stacking of materials up to fifty (50) feet in height and above the height of any screen fencing.

AERIAL OVERVIEW



Federal Blvd.

Clear Creek

I-76

Site

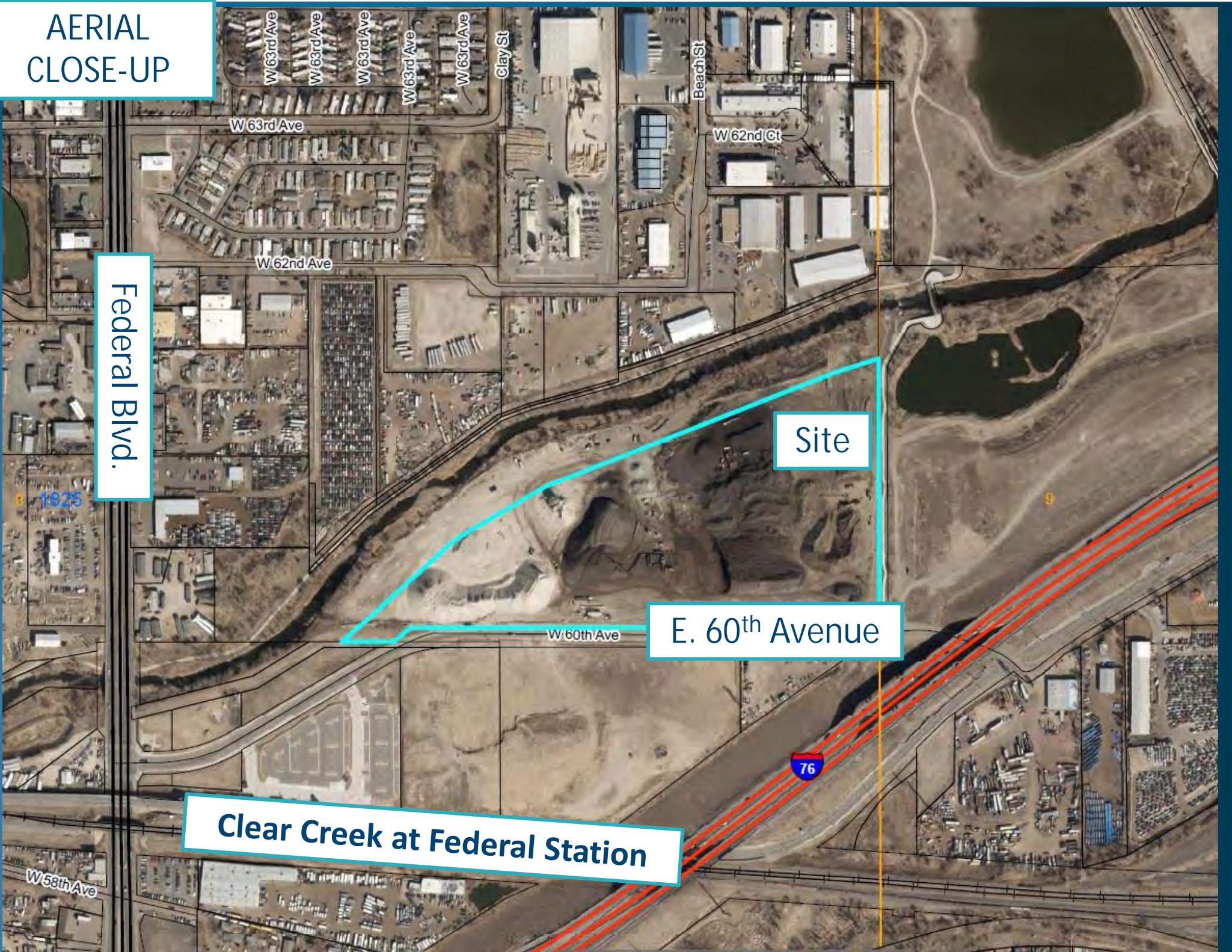
**AERIAL
CLOSE-UP**

Federal Blvd.

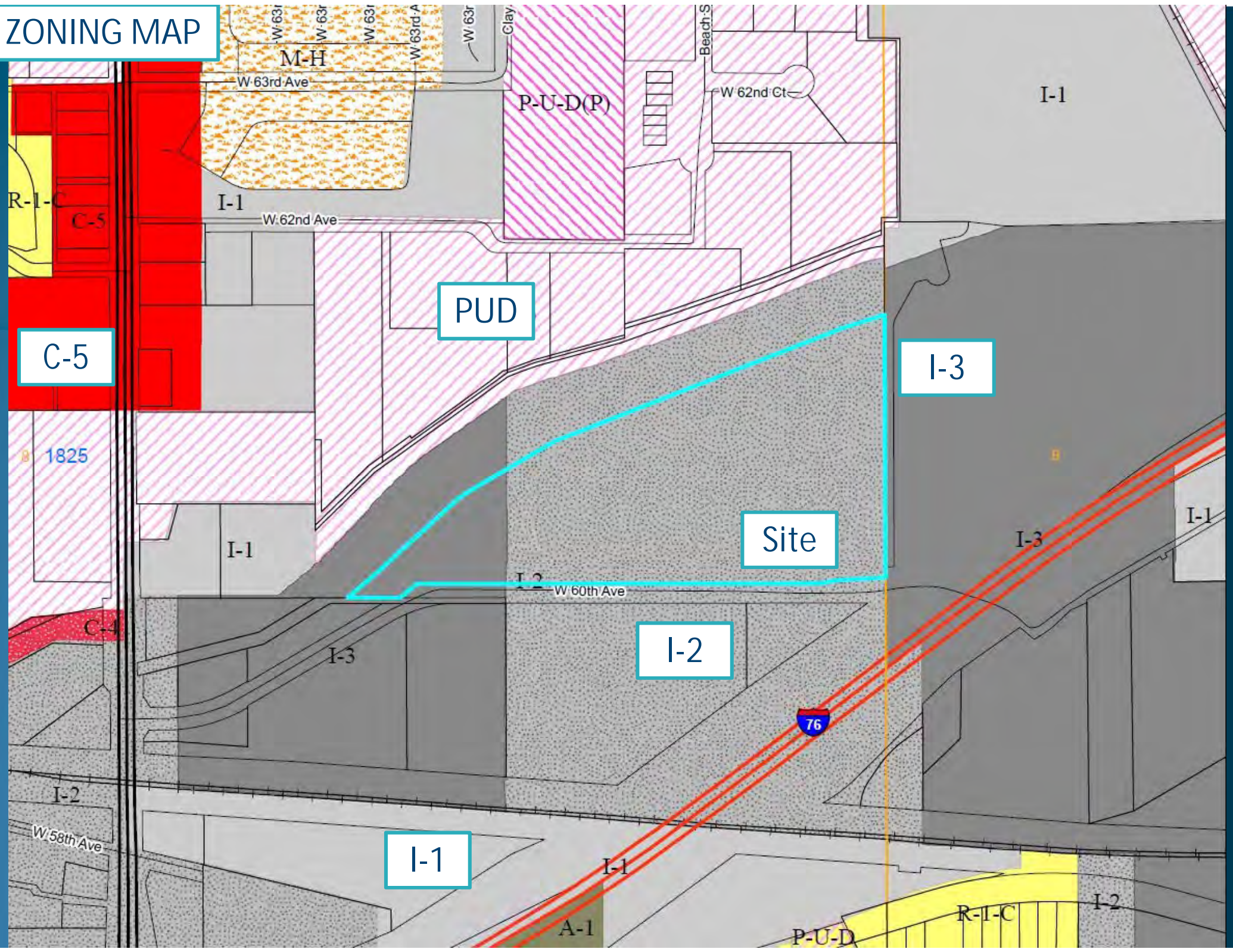
Site

E. 60th Avenue

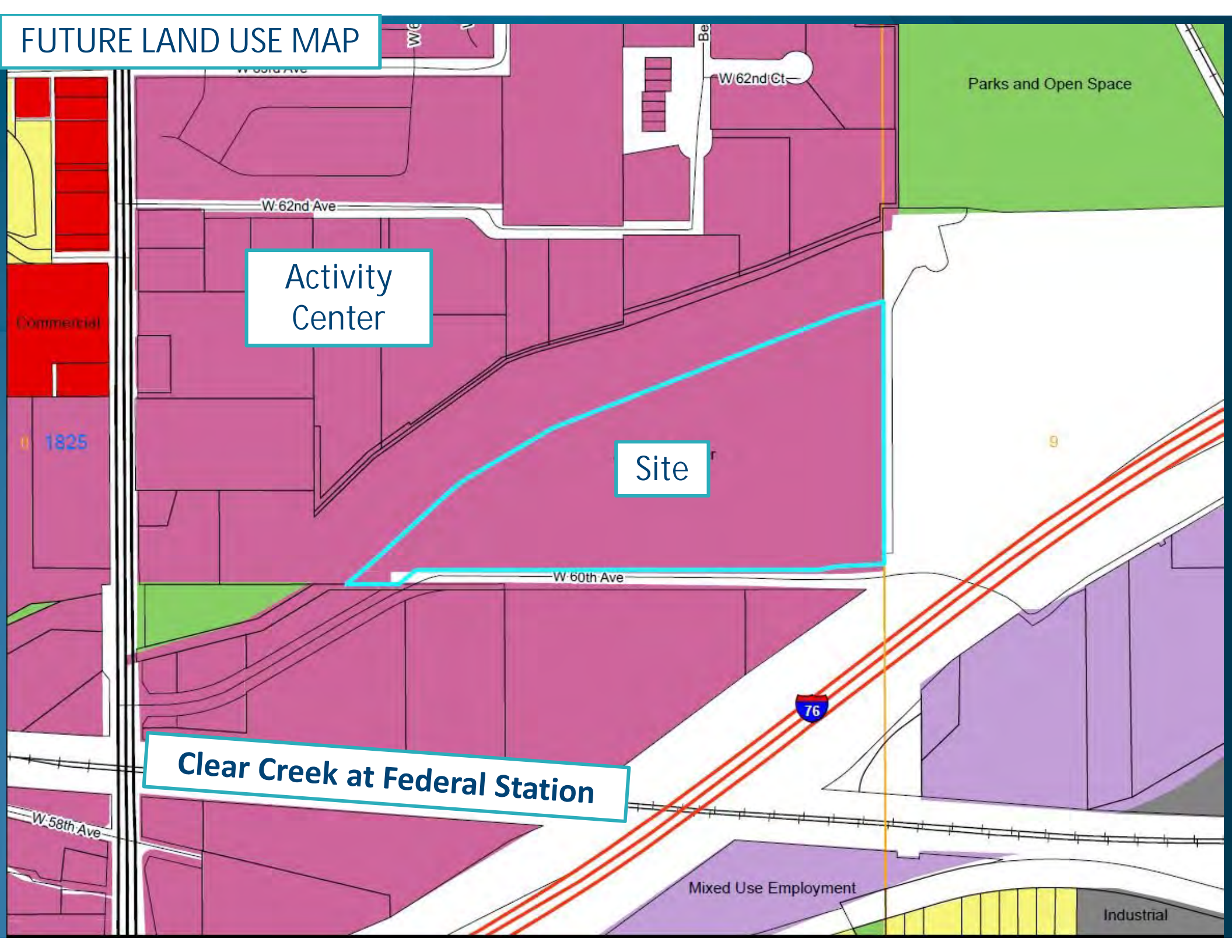
Clear Creek at Federal Station



ZONING MAP



FUTURE LAND USE MAP



Activity Center

Site

Clear Creek at Federal Station

Parks and Open Space

Mixed Use Employment

Industrial

Commercial

1825

9

76

W 62nd Ave

W 62nd Ct

W 60th Ave

W 58th Ave

Activity Center

- High-Intensity, Mixed-Use Development
 - Office
 - Hotel
 - High-Density Residential
 - Retail/Restaurant
- Excellent Transportation Access
- High Visibility
- Development in Activity
- Centers must contain a sufficient intensity and mix of uses to create a pedestrian environment and support transit service.
- These centers may be especially suitable for providing a variety of housing or should be planned with due consideration of accessibility between residences and places of employment.

Background

- Use: processing and storage of recycled asphalt material including stockpiling and transport.
- No permits were ever obtained
- October 1995, notice of violation issued by Adams County
 - No permit was obtained

Background

- June 2012, the applicant was granted a conditional use permit at 5880 Lipan Street for similar use.
 - Condition to require the operations at 2601 W. 60th Avenue to cease and for the site to be vacated by June 2019.
 - July 2020, the applicant has not ceased operations nor vacated the site.
- In May 2017, an inspection of the site was conducted by Adams County, TCHD, and CDPHE.
 - Facility was operating without proper permitting;
 - Outdoor storage that was not associated with the business;
 - 30-foot tall pile of shingles - unpermitted disposal of solid waste and potentially may have included asbestos shingles;
 - Illicit discharge into the Clear Creek;
 - Storage and stockpiling on an adjoining property owned by Adams County.

Background

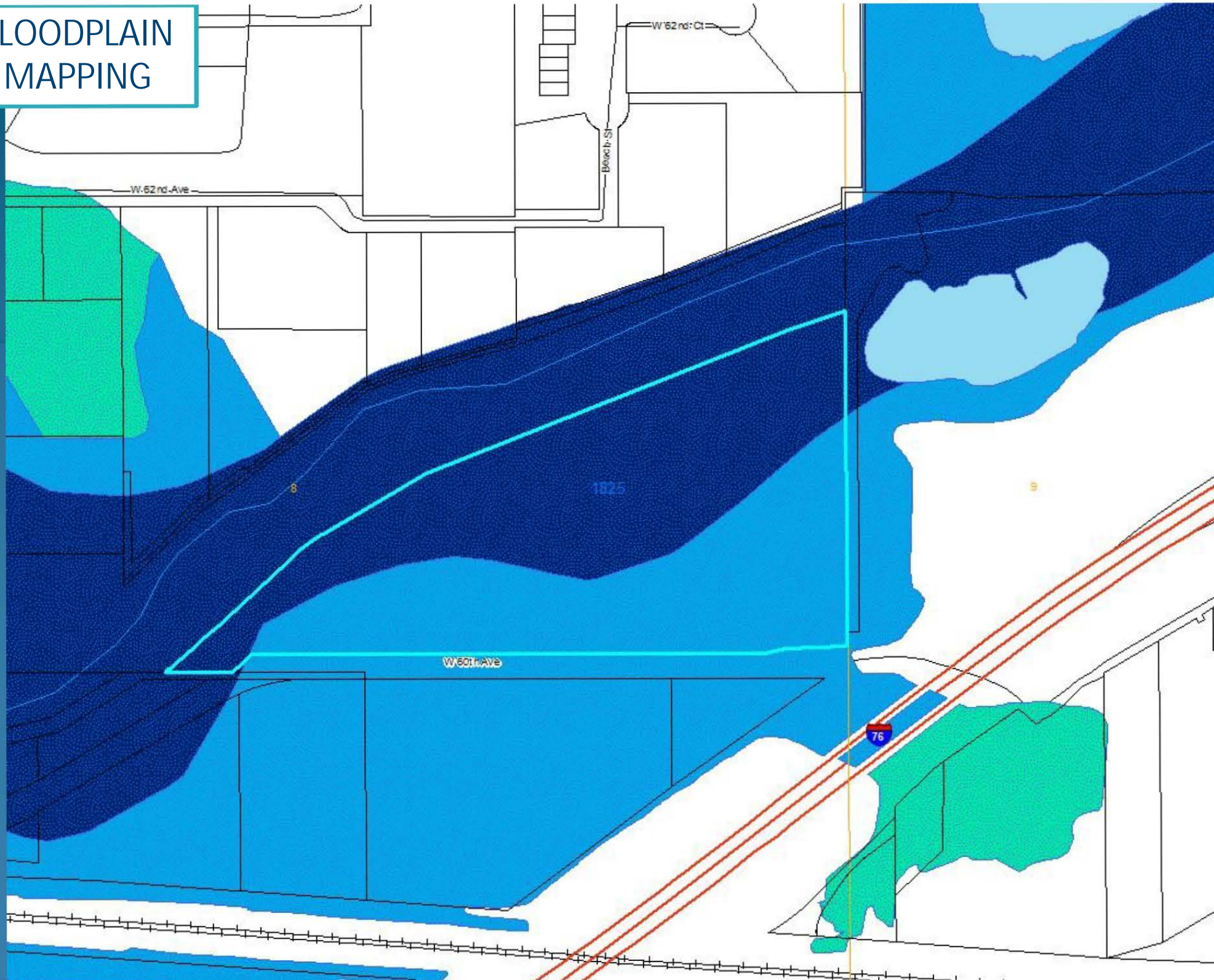
- Post-Inspection
 - Shingles removed
 - Material shifted off adjoining property
- November 2017, Settlement agreement was reached between Brannan Sand & Gravel and Adams County.
 - Timeline for the site to come into compliance
 - Initial compliance for several months
 - February 2018, Extension of deadlines granted
 - June 2019, Full compliance was to be met
 - December 2019, Subject applications filed
 - July 2020, the applicant has not ceased operations nor vacated the site.

Criteria for Conditional Use

Section 2-02-09-06

1. Permitted in zone district
2. Consistent with purpose of regulations
3. Comply with performance standards
4. Harmonious & compatible
5. Addressed all off-site impacts
6. Site suitable for use
7. Site plan adequate for use
8. Adequate services

FLOODPLAIN MAPPING












Park-n-Ride
Clear Creek
• Federal Station
RTD 2870 W. 60th Ave.



Adams County Comprehensive Planning

- Southwest Area Plan
 - Policy 14.1 Promote Clean Industrial Uses;
 - Encourage development and redevelopment of a range of industrial uses in the Southwest Area, with emphasis on new clean and/ or light industrial uses
- Federal Boulevard Framework Plan
 - Corridor Planning should address potential Federal Boulevard blight conditions and recommend improvements in visual character. The addition of pedestrian-oriented improvement to the right-of-way is critical in providing better accommodations for non-motorized corridor transportation. Additionally, streetscape planting should be incorporated throughout the corridor with a focus on shade trees along the east and west sides of the roadway due to the utility limitations of the center medians.
 - Corridor planning should address potential methods to land assembly for redevelopment, protection of residential neighborhoods from commercial land use and traffic encroachment, and methods to interconnect the local street grid.
- Clear Creek Valley Transit Oriented Development Plan

Clear Creek Valley Transit Oriented Development Plan, 2009

- Creation of a transit-oriented community
- Pedestrian-oriented to the transit station
- New retail, employment, entertainment and residential opportunities
- Current site designated for Village Center, Business Park, Open Space
- Mixed-use development with sustainable practices
- Open space and recreational opportunities
- Gateway to Southwest Adams County
- Discourages land use patterns in transit corridors and around transit stations that may preclude future Transit Oriented Development
- Discourages land consumptive uses related to heavy industry such as outdoor storage.

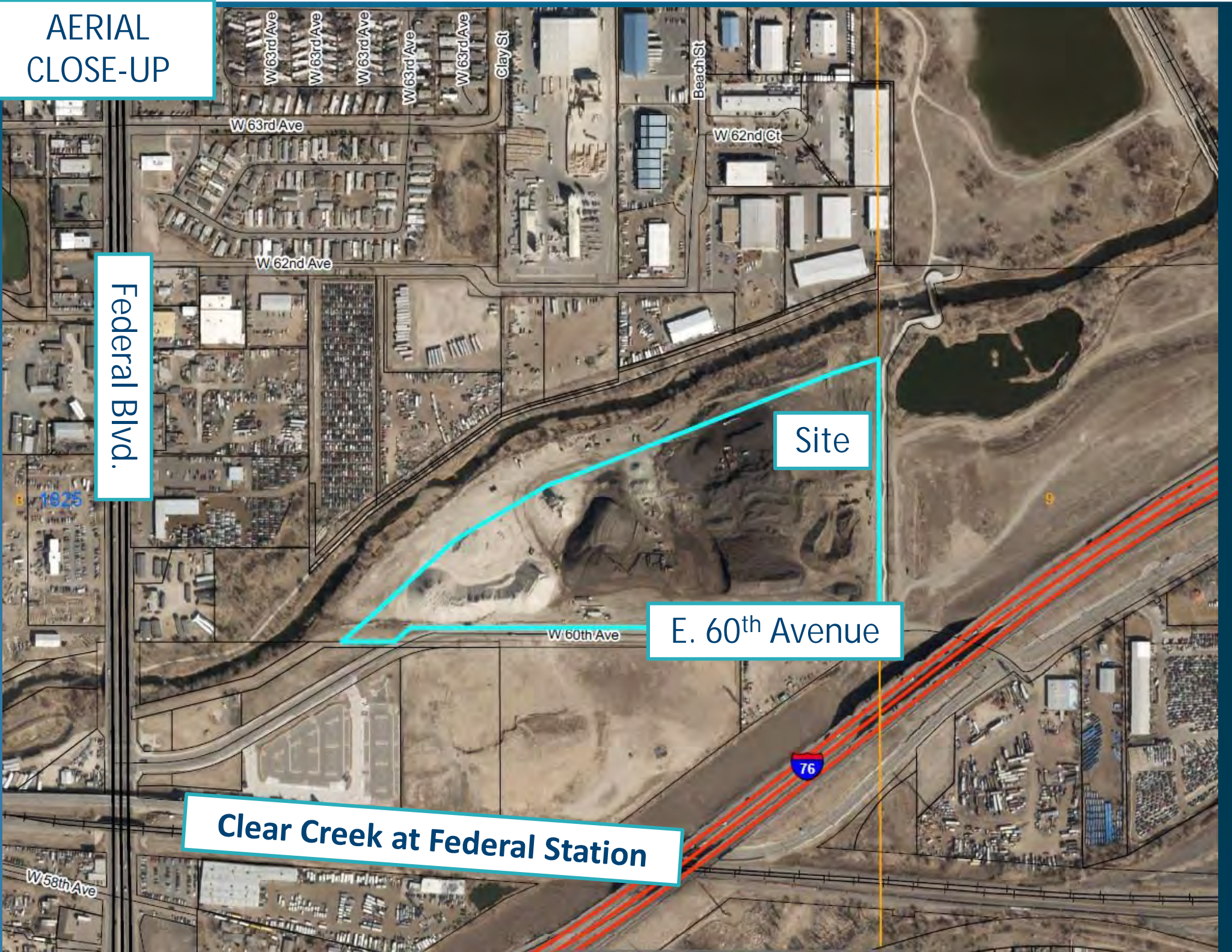
AERIAL CLOSE-UP

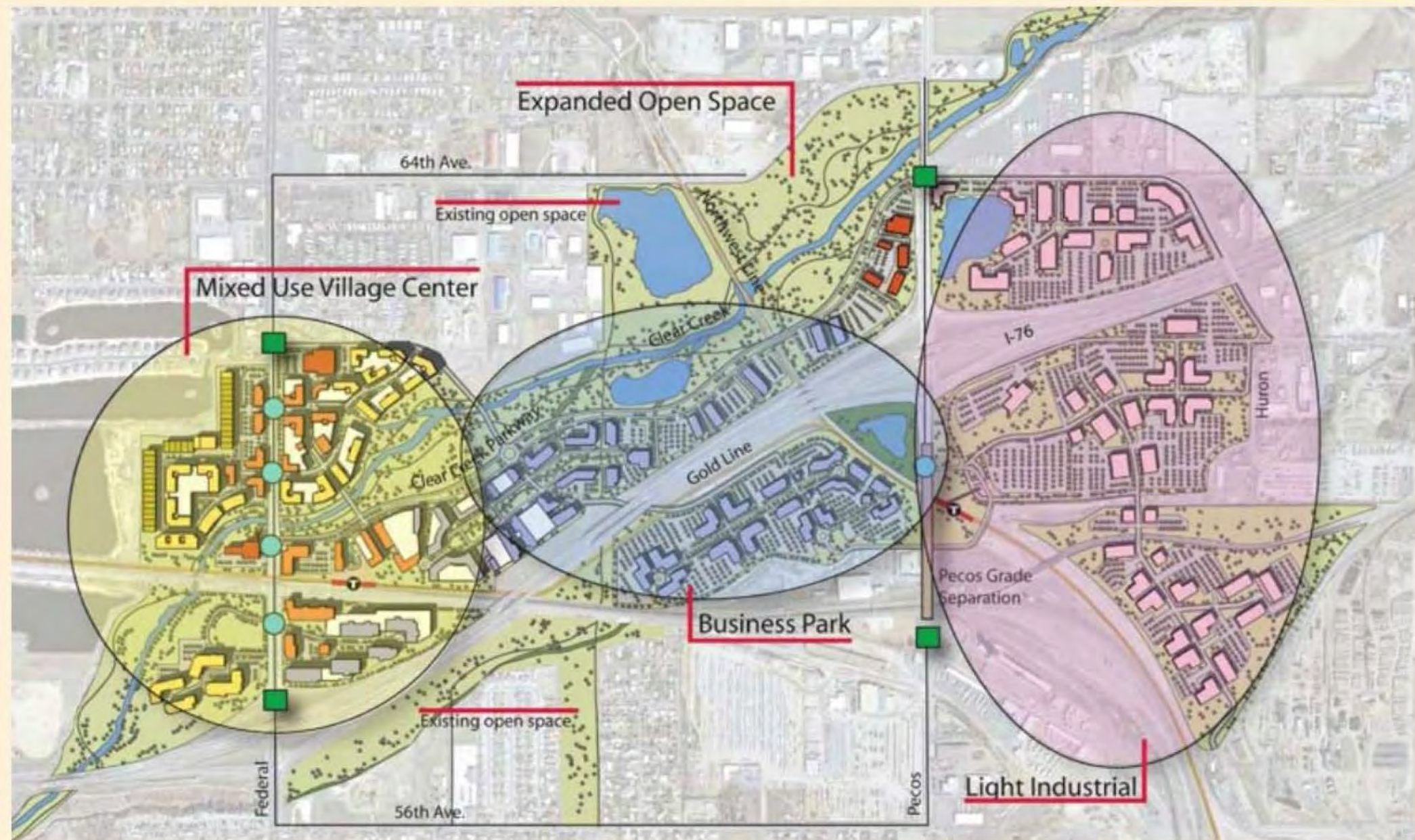
Federal Blvd.




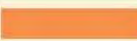
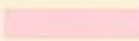




Site

E. 60th Avenue

Clear Creek at Federal Station





- | | | | | | |
|--|---------------------------------|---|---------------------------|---|--|
|  | Retail |  | Business/office |  | Signalized intersection (needs CDOT approval) |
|  | Mixed use |  | Industrial |  | Gateway |
|  | Multi family residential |  | Structured parking | | |
|  | Single family attached | | | | |



Active street level retail



Interactive corners

Design Standards

Purpose of the Design Standards

The purpose of the Design Standards is to set high quality requirements for design of all projects in the Village Center. Development that is designed to these standards will protect the real estate values in the station area and in the neighborhoods in the vicinity. The standards provide a level playing field for developers which will assure a high standard of design on the part of all participants, and raise the bar for design in the immediate area.

Design Standards for the Village Center

Sustainability

Intent: To achieve sustainable design in developing and building each site promoting integrated design practices that sustain the project economically, environmentally and culturally.

Principles: At a minimum, sustainability within the Village Center shall be measured by the LEED rating system, established by the USGBC. Review and approval of buildings in this area shall be contingent upon the applicant showing progress in obtaining the LEED Certified credits. Affordable housing will be considered as an integral part of planning.

Pedestrian Connectivity

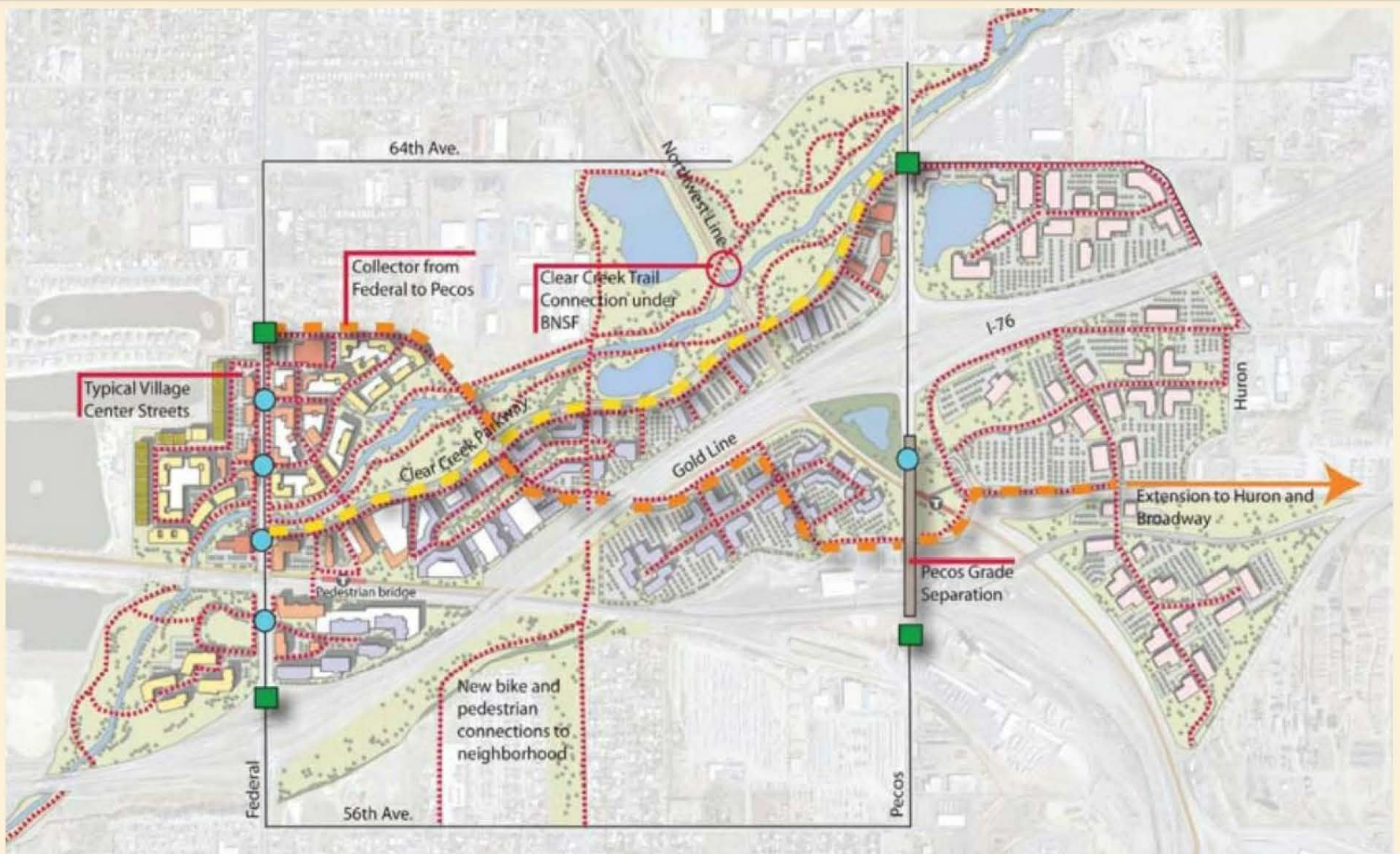
Intent: To connect transit, commercial and housing destinations with convenient, safe and easy to understand pedestrian circulation.

Principles: Walkways, bridges and pedestrian crossings shall constitute a network that interconnects all transit, commercial and residential buildings. Hidden areas and blind corners shall be avoided in favor of open, visible gathering places and unobstructed paths with clear visual connections to destinations beyond. Pedestrian walkways should avoid doubling back or acute changes in the travel path, and should have good visual connection with the surroundings at all times. Active uses should be located along the pedestrian paths.

Ground Floor Activity

Intent: To create a compelling and active pedestrian environment with interesting, accessible activities at the street level.

Principles: Ground floor uses shall consist of active commercial uses, restaurants and entertainment venues in areas that will be frequented by pedestrians. The active space shall be organized in a logical pedestrian flow, without isolating retail activities from public spaces and streets.



- Clear Creek Parkway**
- Collector Road from Federal to Pecos**
- Pedestrian and bike circulation**
- Signalized intersection (needs CDOT approval)**
- Gateway**



CLEAR CREEK AT FEDERAL STATION

The vision for the Clear Creek at Federal Station is to create a new vibrant community amenity within walking distance of the transit station. New retail, employment, entertainment and living opportunities within the Village Center will serve the needs of the existing community, and maintain the area as an employment center for Adams County.

Parking - 7,230
(Includes station parking at 600 spaces)

Multi-family Residential units - 1,993

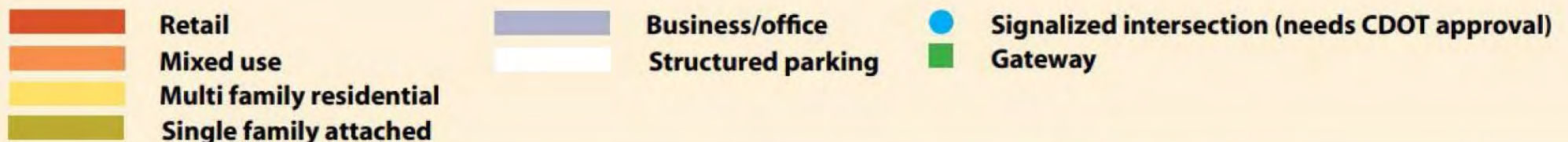
Retail - 467,000 SF
Potential jobs - 467 (1/1,000 SF)

Business/office - 398,000 SF
Potential jobs - 1,326 (1/300 SF)

Open Space - 66 acres

Program based on hypothetical assumptions of maximum buildout. Not based on current zoning or entitlements.

Clear Creek at Federal Station - Mixed-Use Village Center



Comments on Case

Referral agency comments:

- Colorado Division of Water Resources (No concerns)
- Colorado Department of Transportation (No concerns)
- City of Arvada (No Concerns)
- Denver Water (No concerns)
- Adams County Fire (No concerns)
- Regional Transportation District (No comments)
- Tri-County Health Dept. (Concerns – fugitive dust, historic landfill)
- Xcel Energy (No concerns)

Public comments:

Property owners and residents within 1,500 feet

Notifications Sent	Comments Received
162	2

Summary

The determination by staff is that the request is inconsistent with the criteria for approval:

- The conditional use is incompatible with the surrounding area
- The conditional use is not harmonious with the character of the neighborhood
- The conditional use is detrimental future development of the area
- The conditional use , and detrimental to the health, safety, or welfare of the inhabitants of the area and the County
- The request cannot address all off-site impacts
- Character of the neighborhood is changing
- History of noncompliance with County standards

PLANNING COMMISSION UPDATE

Public Hearing: July 9, 2020

No public comments provided at hearing

PC Questions/Concerns:

- Long-Range Plans
- Off-Site Impacts
- History of Noncompliance

Voted 5-0 for Denial

Scheduled Hearings

The applicant and staff has been working over the last few months to reach a settlement agreement to allow a temporary use of the site for a limited duration. At the time of this presentation, no agreement has been reached.

Recommendation

Denial of Conditional Use Permit (PRC2019-00020)

based on:

- 14 Findings-of-Fact

Additional Staff Review Possible

If considering approval of the use:

- Improved Landscape Plan
- Reduced Stacking Heights
- Higher-Quality Fencing
- Improved Environmental Controls
- Limited Duration

Findings-of-Fact

8. The request for outdoor storage is incompatible with the Adams County Comprehensive Plan, does not comply with the minimum zoning requirements of the zone district in which the Conditional Use Permit is to be granted, and does not comply with all other applicable requirements of the Adams County Development Standards and Regulations.
9. Aesthetic concerns have not been taken into consideration during the site design and placement of the outdoor storage.
10. The request for a recycling facility is incompatible with the Adams County Comprehensive Plan, does not comply with the minimum zoning requirements of the zone district in which the Conditional Use Permit is to be granted, and does not comply with all other applicable requirements of the Adams County Zoning and Subdivision Regulations.
11. The applicant has not documented his ability to comply with the health standards and operating procedures as provided by the Colorado Department of Public Health and Environment, Tri-County Health Department, Fire District, and other relevant agencies.
12. The proposed facility will cause significant traffic congestion or traffic hazards.
13. The request is incompatible with the surrounding area.
14. The site will impact health and welfare of the community based upon specific recycling facility design and operating procedures.

Findings-of-Fact

1. The conditional use is not permitted in the applicable zone district.
2. The conditional use is inconsistent with the purposes of these standards and regulations.
3. The conditional use will not comply with the requirements of these standards and regulations, including but not limited to, all applicable performance standards.
4. The conditional use is incompatible with the surrounding area, not harmonious with the character of the neighborhood, detrimental to the immediate area, detrimental to the future development of the area, and detrimental to the health, safety, or welfare of the inhabitants of the area and the County.
5. The conditional use permit has not addressed all off-site impacts.
6. The site is unsuitable for the proposed conditional use including adequate usable space, adequate access, and absence of environmental constraints.
7. The site plan for the proposed conditional use will not provide the most convenient and functional use of the lot including the parking scheme, traffic circulation, open space, fencing, screening, landscaping, signage, and lighting.



COMMUNITY AND ECONOMIC DEVELOPMENT
DEPARTMENT

CASE NO.: VAC2020-00001

CASE NAME: Eberhard Roadway Vacation

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- 2.2 Zoning Map
- 2.3 Future Land Use Map
- 2.4 Simple Map

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- 3.1 Applicant Written Explanation
- 3.2 Applicant Site Plan and Vacation Plat
- 3.3 Xcel Energy Access Easement
- 3.4 KPK Consent Letter

EXHIBIT 4 – Referral Comments

- 4.1 Referral Comment (Adams County 1st Review)
- 4.2 Referral Comment (Adams County 2nd Review)
- 4.3 Referral Comment (Brighton Fire Rescue District)
- 4.4 Referral Comment (Comcast)
- 4.5 Referral Comment (Regional Transportation District)
- 4.6 Referral Comment (Tri-County Health Department)
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EXHIBIT 5 – Associated Case Materials

- 5.1 Request for Comments
- 5.2 Public Hearing Notice
- 5.3 Newspaper Publication
- 5.4 Referral Agency Labels
- 5.5 Property Owner and Resident Labels
- 5.6 Certificate of Posting



COMMUNITY AND ECONOMIC DEVELOPMENT
DEPARTMENT
STAFF REPORT

Board of County Commissioners

November 10, 2020

CASE No.: VAC2020-00001	CASE NAME: Eberhard Roadway Vacation
-------------------------	--------------------------------------

Owner's Name:	David and Jennifer Eberhard
Applicant's Name:	David and Jennifer Eberhard
Applicant's Address:	12585 Troy Street, Henderson, CO 80640
Location of Request:	33505 East 133 rd Court, Brighton, CO
Nature of Request:	Vacate the portion of East 136 th Avenue public right-of-way that is located along the applicant's north property line.
Zone District:	Agriculture-3 (A-3)
Site Size:	35.838 Acres
Proposed Uses:	Single-family residential
Existing Use:	Vacant
Hearing Date(s):	BoCC: November 10, 2020 / 9:30 a.m.
Report Date:	November 3, 2020
Case Manager:	Holden Pederson
Recommendation:	Approval with 6 Findings-of-Fact and 2 Conditions

SUMMARY OF PREVIOUS APPLICATIONS

In August 2005, the Crestwood Estates Planned Unit Development (PUD) was approved through case #PRJ2005-00042. This request included a Major Subdivision Final Plat that vacated the portion of the East 136th Avenue public right-of-way that is located between the applicant's east property line and Imboden Road. As a result, over half of the East 136th Avenue public right-of-way that previously connected Watkins Road to Imboden Road has been vacated. The roadway no longer provides a connection between these two arterial roadways but instead can only be accessed from Watkins Road and dead ends at the applicant's east property line.

SUMMARY OF APPLICATION

Background

The applicant is requesting to vacate approximately 1,246.24 linear feet, or 49,850 square feet (1.144 acres), of the East 136th Avenue public right-of-way that is located along the north property line of their property located at 33505 East 133rd Court. The subject property is not located within a subdivision.

Today, only a portion of the East 136th Avenue roadway remains as public right-of-way at this location between Watkins Road and Imboden Road, as the remainder of the road has already been vacated and will be incorporated into future residential lots as dictated by the approved Final Development Plan for the Crestwood Estates PUD.

Currently, the public right-of-way terminates at the east boundary of the subject property. The proposed Roadway Vacation would shift the boundary of the public right-of-way to the west, causing it to terminate at the east boundary of the applicant's neighbor whose vacant property is located directly to the west of the subject property. The vacated portion of the public right-of-way would be incorporated into the subject property.

The intent of the applicant's request is to continue the roadway vacation that has already been completed from their east property line to Imboden Road. Public access to the dirt trail road that runs along the back of the subject property has resulted in trespassing, dumping, and property damage, all of which represent nuisance conditions that have negatively impacted the applicant and their site in the past. This proposed roadway vacation will allow the applicant to better protect their property by closing off access to the portion of the public right-of-way and the trail road that abuts their property to the north.

Development Standards and Regulations Requirements

Per Section 2-02-18-08-06 of the County's Development Standards and Regulations, the proposed Roadway Vacation must conform to the requirements of the County's Development Standards. The vacation cannot result in the creation of nonconforming lots, and in the case of nonconforming lots, the nonconformity cannot be increased. No parcel can be created without access because of the street right-of-way vacation. The subject request must not adversely affect the public health, safety, and general welfare.

There is no future connectivity anticipated by the Crestwood Estates PUD between Watkins Road and Imboden Road. Meanwhile, the County also has no plans to extend the right-of-way beyond the subject property. Access to the applicant's site will continue to be taken from East 133rd Court on their south property line. No access for the existing lots is taken from the proposed roadway, other than an access road that connects East 136th Avenue to an oil and gas facility that is located on an otherwise vacant property (13850 Watkins Road) that is located directly to the north of the subject property and will be able to receive future access from Watkins Road once the site is developed; therefore, this request will not leave any land adjoining the roadway without an established public road or private access easement connecting said land with another established public road.

The applicant has consulted with the K.P. Kauffman Company (KPK), which owns the oil and gas facility that receives its access from the portion of East 136th Avenue that is being proposed to be vacated. A letter has been provided by the applicant indicating that KPK consents to the roadway vacation as long as they are able to retain uninterrupted access to the wellbore that is located north of the applicant's property. The applicant intends to place fencing and locked gates along their west and east property lines in order to control the flow of traffic along their north property line. They will provide a key to those gates to KPK and the County's Oil and Gas Inspectors in order to ensure that relevant parties are able to continue accessing the site. The applicant has included an Easement Preservation Note on their Vacation Plat in order to reserve this area for the continued use of any applicable parties that need to access the former public right-of-way.

The applicant has also granted an Access Easement to the Public Service Company of Colorado (Xcel Energy) in order for the company to retain the right to enter the easement area with personnel, equipment, and vehicles, and to survey, construct, maintain, operate, repair, and replace improvements along the easement area, including a dirt or gravel road. The agreement limits what the applicant may construct within the easement area and how they may alter it in order to preserve uninterrupted access.

Future Land Use Designation and Goals of the Comprehensive Plan

The Comprehensive Plan designates the subject site as Estate Residential. Per Chapter 5 of the Imagine Adams Comprehensive Plan, the purpose of the Estate Residential land use category is to provide limited opportunities for ex-urban or rural lifestyles in the County. Those areas are designated for single family housing at lower densities, typically no greater than one unit per acre, and compatible uses such as schools and parks. Under certain circumstances, net densities for Estate Residential areas may be as low as one unit per acre, provided that development is clustered so as to preserve a significant amount of open space or agricultural land.

Despite this future land use designation of Estate Residential, the majority of the undeveloped land in this area has not yet been subdivided and remains as thirty-five acre or larger properties that are located within the Agriculture-3 zone district.

Site Characteristics:

The subject property is approximately 35 acres in size and remains as vacant agricultural land. Meanwhile, the public right-of-way that is proposed to be vacated is an existing dirt trail road. Fencing is currently only located along some sections of the right-of-way, primarily those that abut a property that has already been developed. The applicant's property currently does not include fencing in order to separate the public right-of-way from their private property.

Surrounding Zoning Designations and Existing Use Activity:

<p>Northwest <u>A-3</u> Single-Family Detached Dwelling</p>	<p>North <u>A-3</u> Oil and Gas Facility on Vacant Land</p>	<p>Northeast <u>P-U-D / A-1</u> Vacant</p>
<p>West <u>A-3</u> Vacant with an Equipment Implement Out Building</p>	<p>Subject Property <u>A-3</u> Vacant</p>	<p>East <u>P-U-D / A-1</u> Vacant</p>
<p>Southwest <u>A-3</u> Single-Family Detached Dwelling</p>	<p>South <u>A-3</u> Single-Family Detached Dwelling</p>	<p>Southeast <u>P-U-D / A-1</u> Vacant</p>

Compatibility with the Surrounding Land Uses

Vacation of the right-of-way and intended development of the site is compatible with the surrounding area. The majority of the properties immediately surrounding the applicant’s site are developed with single-family dwellings, while surrounding land located further from the applicant’s site to the east, west, and south remains as undeveloped agricultural land. The Crestwood Estates Planned Unit Development that will be located directly to the east of the subject property will create smaller residential lots that are less than 10 acres in size. Smaller lots (primarily under 5 acres in size) have already begun being developed as single-family homes within the portion of the PUD located to the northeast of the site and further north along Imboden Road. Several other established PUDs are located to the northwest of the applicant’s property while the Denver International Airport is located to the south of the applicant’s site.

The Roadway Vacation and eventual development of the site will not negatively impact surrounding uses that exist in the immediate vicinity or throughout the County, as the overall application would not remove existing points of access for any developed lots and would instead remove a nuisance condition that currently exists for properties that are located adjacent to the public roadway.

Staff Recommendation

Based upon the application, the criteria for Roadway Vacation approval, and a recent site visit, staff recommends Approval of this request with 6 Findings-of-Fact and 2 Conditions:

Findings of fact:

1. The roadway vacation complies with these standards and regulations and the original conditions of approval.
2. Nonconforming lots are not created, and in the case of nonconforming lots, the nonconformity is not increased.
3. The roadway vacation is in keeping with the purpose and intent of the subdivision regulations.

4. The approval will not adversely affect the public health, safety, and welfare.
5. The vacation does not leave any land adjoining the roadway without an established public road or private access easement connecting said land with another established public road.
6. If the roadway is a state or federal highway, the vacation has been approved by the state transportation commission.

Recommended Conditions of Approval:

1. Access to the oil and gas facility located north of the subject property must be provided and maintained as described by the Vacation Plat’s Easement Preservation Note and the consent letter provided by the K.P. Kauffman Company.
2. Access to the oil and gas facility located north of the subject property must also be provided and maintained for the County’s Oil and Gas Inspectors to inspect the facility.

CITIZEN COMMENTS

Number of Referrals to Property Owners	Number of Comments Received
16	0

All property owners and residents within 1,000 feet of the subject site were contacted. No responses were received from abutting property owners or residents.

COUNTY AGENCY COMMENTS

Adams County, Right-of-Way

The Adams County Right-of-Way Agent reviewed the request and assisted the applicant in preparing their Vacation Plat. The Right-of-Way Agent also guided the applicant in providing the Easement Preservation Note on the Vacation Plat for access to the nearby oil and gas facility to be maintained and encouraged the applicant’s outreach to Xcel Energy in order to verify that there would not be a conflict with the proposed roadway vacation.

REFERRAL AGENCY COMMENTS

Responding with Concerns:

Xcel Energy identified that there was a possible conflict with the applicant’s request, as the company has existing electric transmission lines and associated land rights located directly north of the public right-of-way. The company required the applicant to verify whether or not these facilities were in conflict with the proposed vacation. After communicating with the applicant, the company required an Access Easement that will run with the land in order to provide Xcel Energy with an assurance that they would be able to continue accessing their facilities.

Responding without Concerns:

Brighton Fire Rescue District
Comcast
Regional Transportation District
Tri-County Health Department
United Power

Notified but not Responding / Considered a Favorable Response:

Adams County Attorney's Office
Adams County Code Compliance
Adams County Parks and Open Space Department
Adams County Sheriff's Office
Brighton Fire District 27J
Century Link, Inc.
Horse Creek Metropolitan District
Metro Wastewater Reclamation



E 137th Way

E 136th Ave

E 135th Dr

Watkins Rd

Timberland Rd

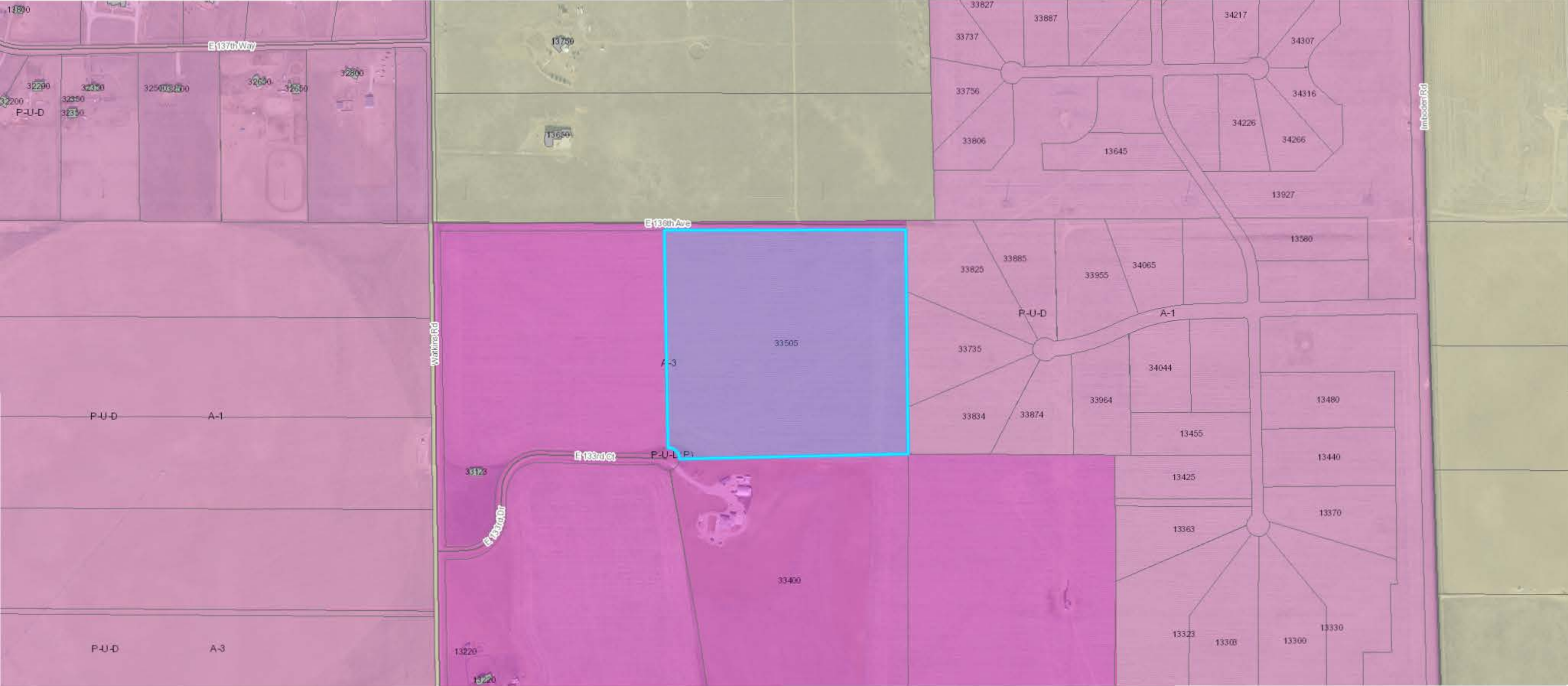
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33120
 E 134th Dr

13220



E 137th Way

E 136th Ave

Watkins Rd

Imboden Rd

E 134th Dr

33505

A-3

P-U-D

A-1

P-U-D

A-1

P-U-D

A-3

33123

P-U-D

33400

13220

13220

33827

33887

34217

33737

34307

32200

32300

32500

32600

32650

32800

13750

13650

33756

34316

33806

13645

34226

34266

13927

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34044

33834

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33964

13480

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13440

13425

13370

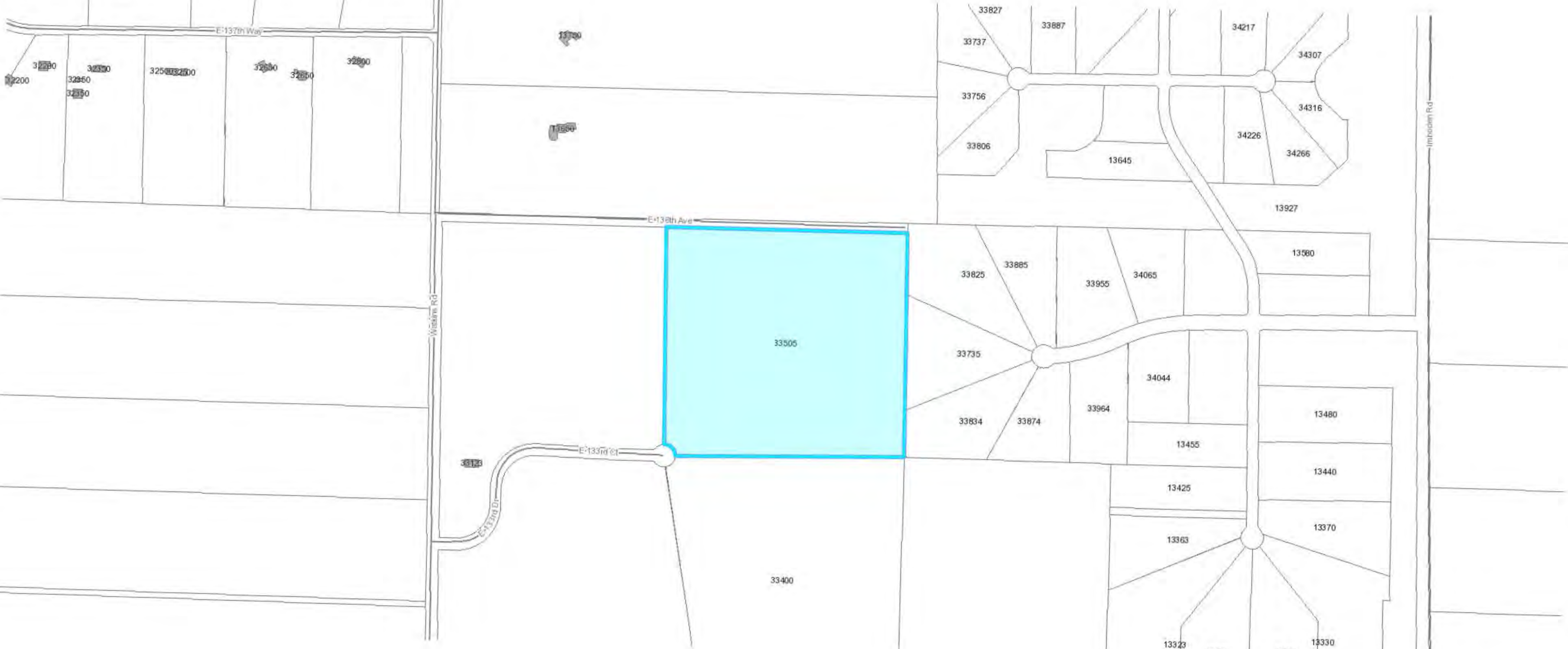
13363

13323

13308

13300

13330



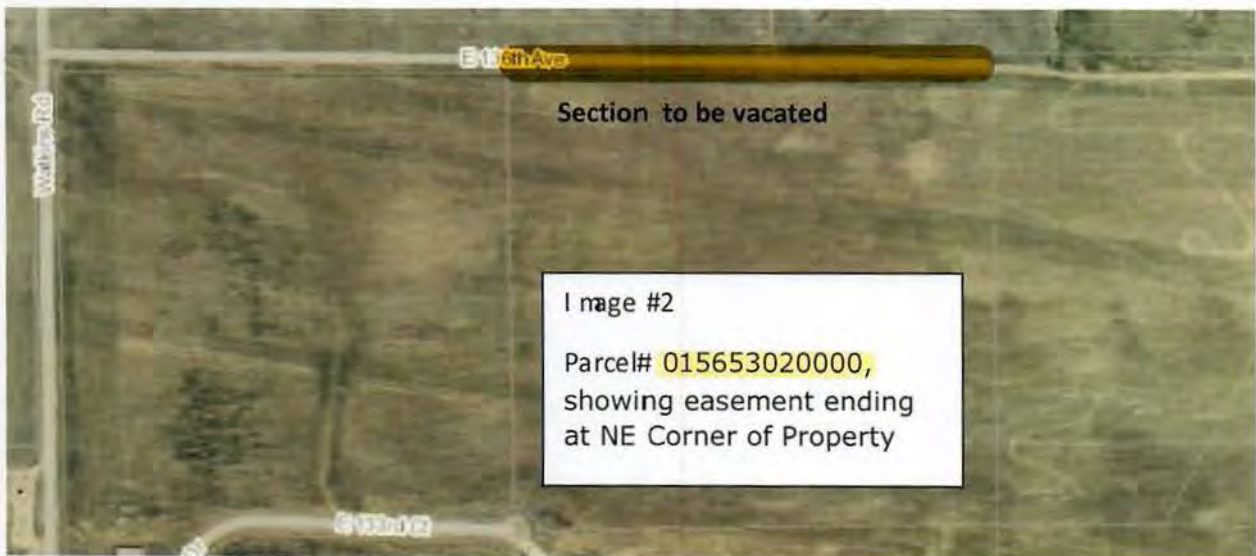
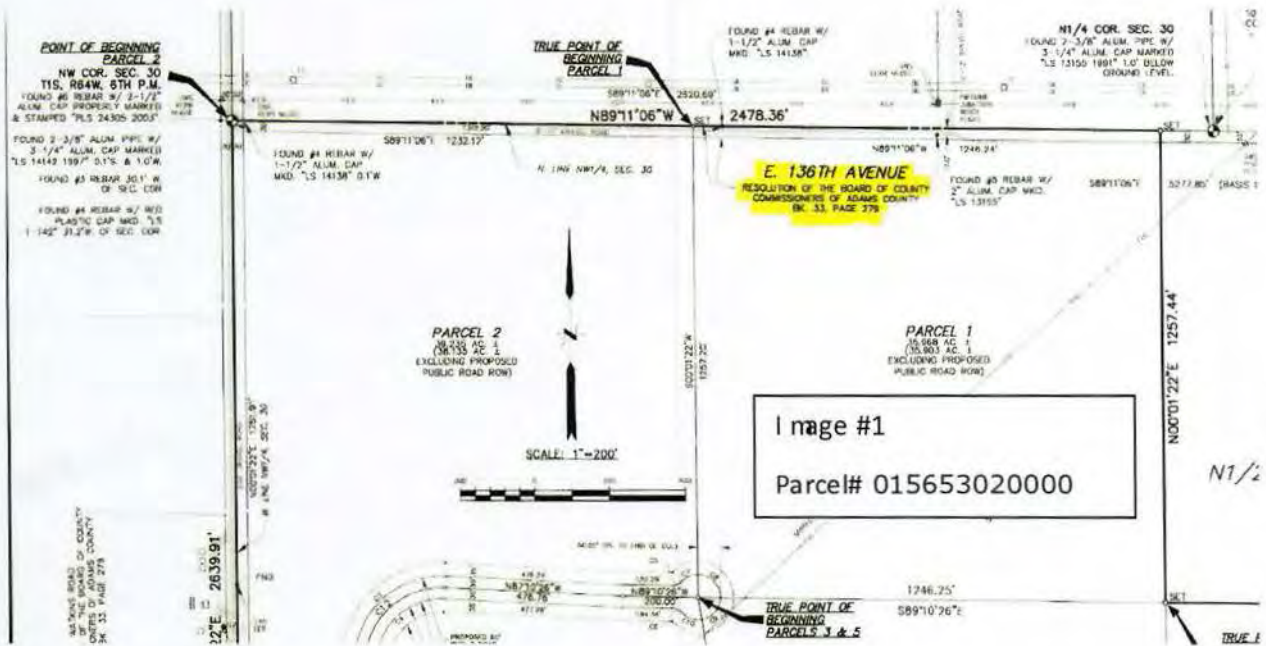
3. Written Explanation of Project

To: Whom it may Concern

Fr: David and Jennifer Eberhard

Date: April 15, 2019

Re: Requesting to vacate the Easement of 136th Ave (Noted in Book 33, Page 279) on the entire north side of parcel #015653020001 (Section 30, Township 1, Range 64). Easement has already been vacated from NE corner of the property to Imboden road by Crestwood Estates PUD (Reception #2005000858820, Image #4)



3. Written Explanation of Project

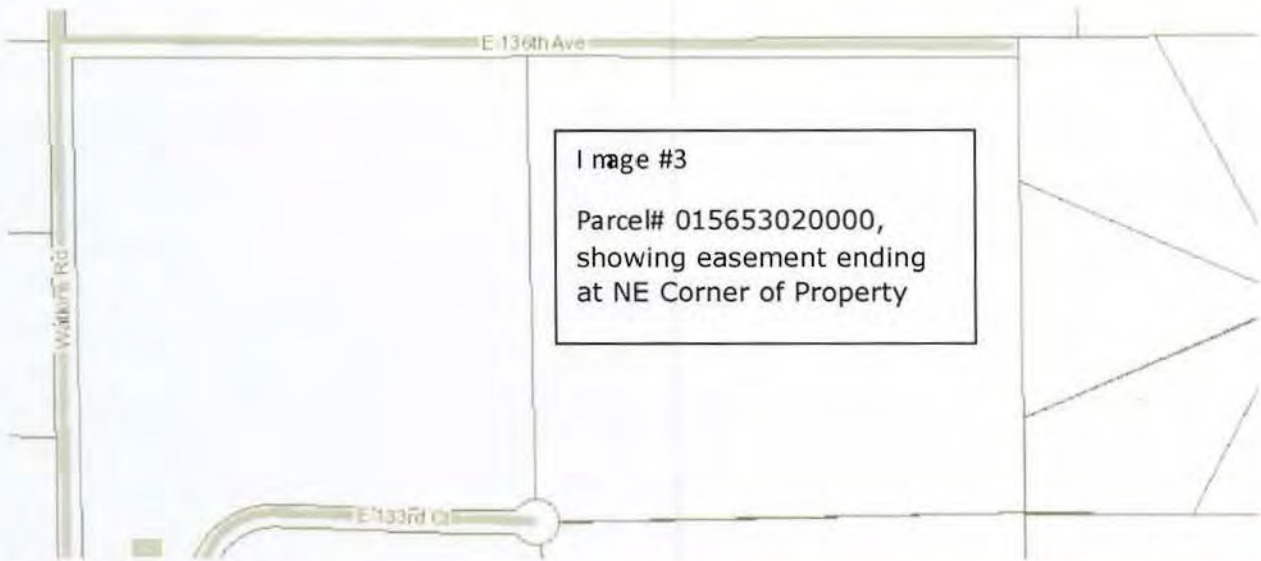


Image #3
Parcel# 015653020000,
showing easement ending
at NE Corner of Property

Adams County
Official Records Search

Document: RE 010 Full Screen View Print

Page: 7 of 9
Go to Page: [input] Go

Back to Search Results Help Print My List

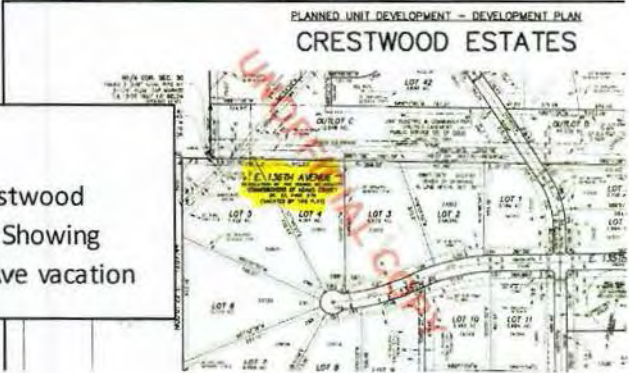
Document Information

Instrument # 200500956820
Book/Page RE 0 / 0
Record Date 06/11/2005 01:43:59 PM
Book Type RE

Doc Type PLANNED UNIT DEVELOPMENT
Number of Pages 9
Grantor CRESTWOOD ESTATES
KALCEVIC FARMS
Grantee KALCEVIC FARMS

Doc Links PLANNED UNIT DEVELOPMENT-200500956820
Legal Sec:30 Tp:1 Rng:64*
Doc Legals Sec:30 Tp:1 Rng:64*

Image #4
Screen Shot of Crestwood
Estates PUD, pg 4. Showing
vacation of 136th Ave vacation



EAST 136TH AVENUE VACATION PLAT

A PORTION OF EAST 136TH AVENUE
 LOCATED IN THE NW1/4 OF SECTION 30,
 TOWNSHIP 1 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN,
 COUNTY OF ADAMS, STATE OF COLORADO.

AREA = 1.144 ACRES, MORE OR LESS.

SHEET 1 OF 2

LEGAL DESCRIPTION

ALL OF THAT RIGHT-OF-WAY OF EAST 136TH AVENUE DEDICATED TO THE COUNTY OF ADAMS AS DESCRIBED IN WARRANTY DEED RECORDED JUNE 13, 2005, AS RECEPTION NO. 20050613000618570 OF THE RECORDS OF ADAMS COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 30, FROM WHICH THE N1/4 CORNER OF SAID SECTION 30 BEARS S89°11'06"E, 2620.69 FEET (BASIS OF BEARING), THENCE S89°11'06"E, 1232.12 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 30 TO THE NORTHWEST CORNER OF PARCEL 1 OF WATKINS FARMS, A SUBDIVISION LOCATED IN THE NW1/4 OF SECTION 30, T1S, R64W OF THE 6TH P.M., COUNTY OF ADAMS, STATE OF COLORADO, ACCORDING TO THE LAND SURVEY PLAT RECORDED IN BOOK 1, PAGE 2599, RECEPTION NO. 2005014 OF THE PLANNING RECORDS OF ADAMS COUNTY, COLORADO, ALSO BEING THE NORTHWEST CORNER OF THAT TRACT OF LAND AS DESCRIBED AS SAID RECEPTION NO. 20050613000618570, AND THE POINT OF BEGINNING;

THE FOLLOWING COURSES AND DISTANCES ARE ALONG THE NORTHERLY, EASTERLY, SOUTHERLY, AND WESTERLY LINES OF THAT TRACT OF LAND AS DESCRIBED AS SAID RECEPTION NO. 20050613000618570:

THENCE CONTINUING S89°11'06"E, 1246.24 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 30 TO THE NORTHEAST CORNER OF SAID PARCEL 1;

THENCE S00°01'22"W, 40.00 FEET ALONG THE EASTERLY LINE OF SAID PARCEL 1;

THENCE N89°11'06"W, 1246.24 FEET;

THENCE N00°01'22"E, 40.00 FEET TO THE POINT OF BEGINNING;

SAID PORTION OF LAND CONTAINS 1.144 ACRES (49,850 SQUARE FEET), MORE OR LESS.

PURPOSE STATEMENT

THE PURPOSE OF THIS ROADWAY VACATION PLAT IS TO VACATE THAT PORTION OF EAST 136TH AVENUE AS SHOWN HEREON.

EASEMENT PRESERVATION NOTE

RESERVING, HOWEVER, AN EASEMENT FOR THE CONTINUED USE OF EXISTING SEWER, GAS, WATER AND SIMILAR PIPELINES AND APPURTENANCES, AND FOR ELECTRIC TELEPHONE, AND SIMILAR LINES AND APPURTENANCES WITHIN SAID STREET RIGHT-OF-WAY.

BOARD OF COUNTY COMMISSIONERS APPROVAL

ACCEPTED BY THE ADAMS COUNTY BOARD OF COUNTY COMMISSIONERS THIS _____ DAY OF _____, 20____A.D.

CHAIR

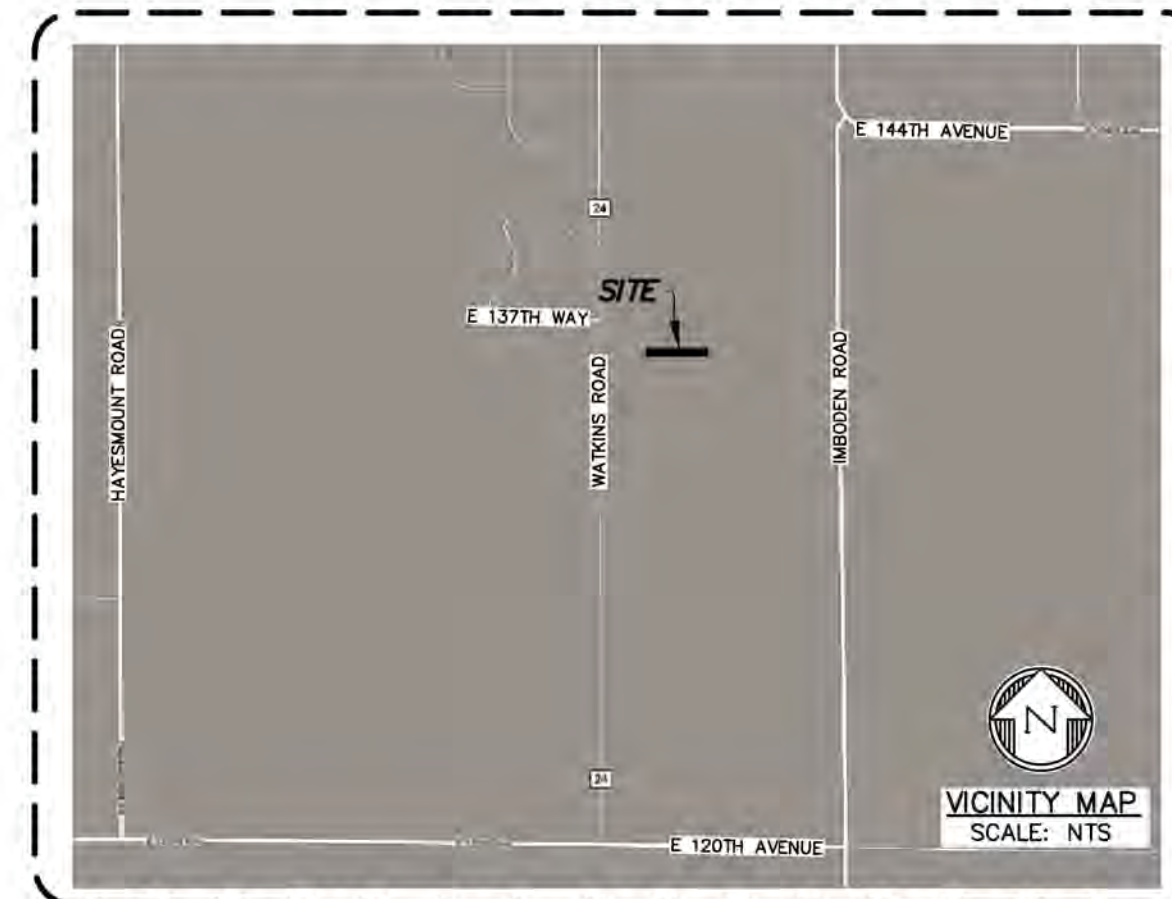
CLERK AND RECORDER'S CERTIFICATE

ACCEPTED FOR FILING IN THE OFFICE OF THE CLERK AND RECORDER OF ADAMS COUNTY, COLORADO, AT _____ O'CLOCK _____ M. THIS _____ DAY OF _____, 20____A.D.

CLERK AND RECORDER

DEPUTY

INSTRUMENT NO.:



NOTES

- BEARINGS SHOWN ON THE ACCOMPANYING PLAT ARE BASED ON THE ASSUMPTION THAT A LINE BETWEEN THE NW CORNER AND N1/4 CORNER OF SECTION 30, T1S, R64W OF THE 6TH P.M., BEARS S89°11'06"E AS MONUMENTED AND SHOWN HEREON.
- SET #5 REBAR, 24" LONG, WITH 2 INCH ALUMINUM CAP MARKED "CIVILARTS PLS 24305" FLUSH W/ GROUND LEVEL WHERE NOTED "SET". FOUND #5 REBAR WITH 2 INCH ALUMINUM CAP MARKED "CIVILARTS -DREXEL PLS 24305" WHERE NOTED "FND". DID NOT FIND OR SET A MONUMENT WHERE NOTED "NFS".
- RECORDED EASEMENTS AND RIGHTS-OF-WAY, IF ANY, ARE SHOWN ON THIS PLAT AS DISCLOSED IN FIDELITY NATIONAL TITLE COMPANY TITLE REPORT NO. F0681246-141-JAD, EFFECTIVE DATE JULY 31, 2020 AT 8:00 A.M. NO ADDITIONAL RESEARCH WAS COMPLETED.
- ACCORDING TO THE FIRM FLOOD INSURANCE RATE MAP, MAP NUMBER 08001C0378J, EFFECTIVE DATE SEPTEMBER 28, 2018, PANEL 338 OF 1150, ADAMS COUNTY, COLORADO AND INCORPORATED AREAS, THE SUBJECT PROPERTY LIES WITHIN ZONE X OF OTHER AREAS - AREAS OF MINIMAL FLOOD HAZARD.

THE POSITION OF ANY AREA DESIGNATED ON THE FIRM MAP RELATIVE TO THE SUBJECT PROPERTY, AS MAY BE NOTED OR SHOWN ON THIS MAP, IS BASED ON GRAPHICALLY SPOTTING OR SCALING THE BOUNDARIES OF THE SUBJECT PROPERTY RELATIVE TO IDENTIFIABLE FEATURES, SUCH AS ROADS, DRAINAGES, OR REFERENCED SECTION LINES, AND MAY NOT BE ACCURATE. CLIENT IS RESPONSIBLE FOR VERIFYING ALL FLOOD MATTERS.
- FIELD WORK WAS COMPLETED ON APRIL 5, 2018.
- LINEAR DIMENSIONS SHOWN ON THIS MAP ARE U.S. SURVEY FEET.
- LEGAL DESCRIPTION PREPARED BY FRANK N. DREXEL, 1500 KANSAS AVENUE, SUITE 2-E, LONGMONT, COLORADO, 80501 (CRS 38-35-106.5).

NOTICE

ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVERED SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.

SURVEYOR'S CERTIFICATE

I, FRANK N. DREXEL, A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THIS MAP REFLECTS THE RESULTS OF A SURVEY MADE UNDER MY RESPONSIBLE CHARGE, IS BASED ON MY KNOWLEDGE, INFORMATION, AND BELIEF, IS IN ACCORDANCE WITH APPLICABLE STANDARDS OF PRACTICE, AND IS NOT A GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED.



FRANK N. DREXEL
 COLORADO REGISTERED PROFESSIONAL
 LAND SURVEYOR NO. 24305

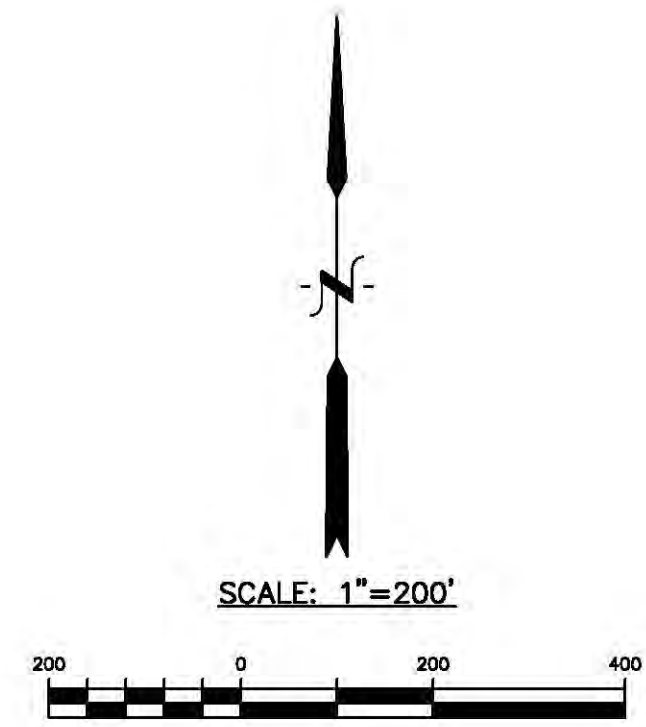
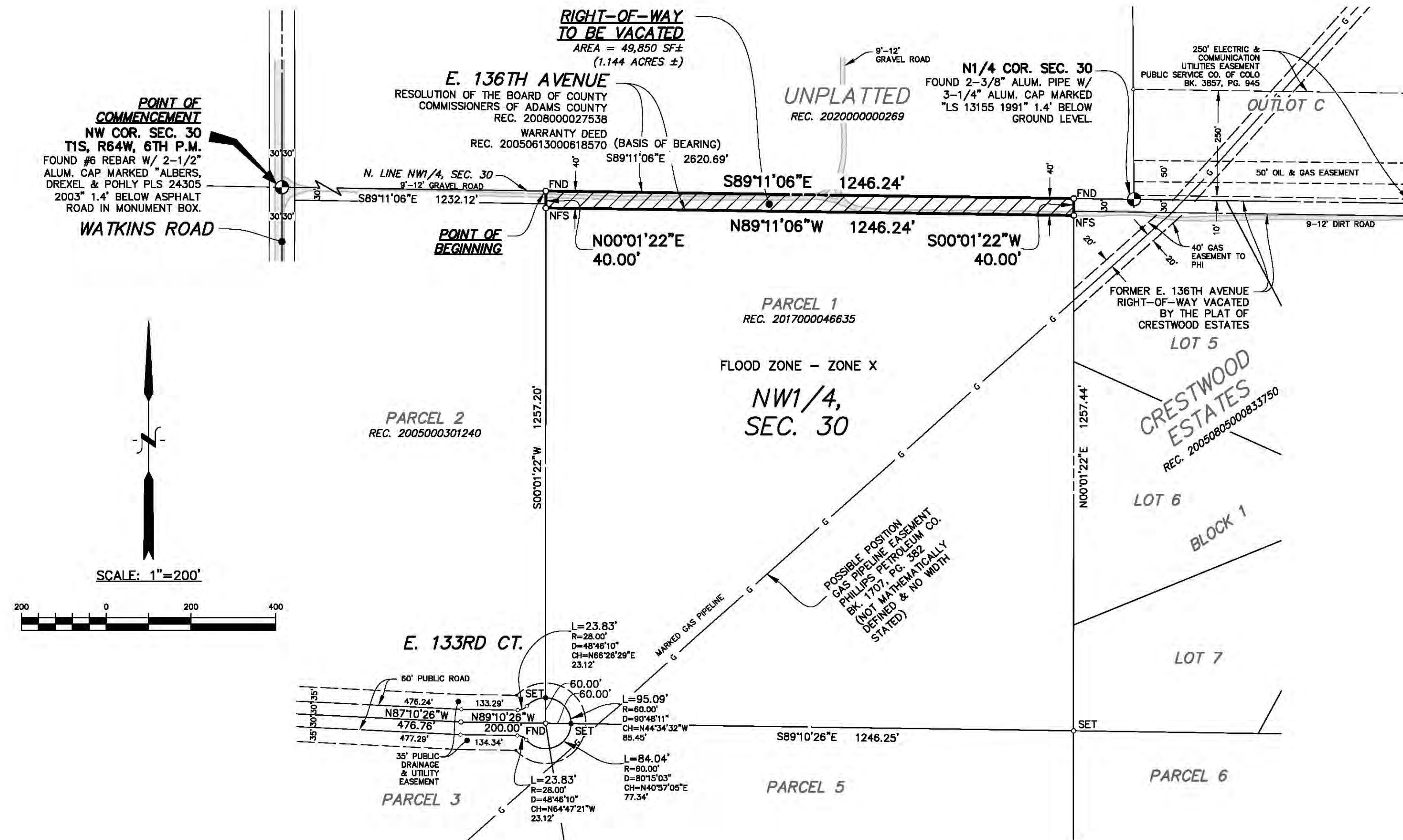
DATE: _____

EAST 136TH AVENUE VACATION PLAT

A PORTION OF EAST 136TH AVENUE
 LOCATED IN THE NW1/4 OF SECTION 30,
 TOWNSHIP 1 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN,
 COUNTY OF ADAMS, STATE OF COLORADO.

AREA = 1.144 ACRES, MORE OR LESS.

SHEET 2 OF 2



LEGEND	
MISC.	
AC	ACRES
ALUM	ALUMINUM
BK	BOOK
FM	FILM
MKD	MARKED
PG	PAGE
±	MORE OR LESS

LEGEND	
REC	RECEPTION NO.
---	RIGHT-OF-WAY
///	RIGHT-OF-WAY (TO BE VACATED)
---	EASEMENT
SF	SQUARE FEET
FEATURES	
---	DIRT OR GRAVEL ROAD
---	PETROLEUM PIPELINES

LEGEND	
---	GAS PIPELINE
MONUMENTS	
SET	SET 24" LONG #5 REBAR W/ 2" ALUM. CAP MKD. "CIVILARTS PLS 24305" FLUSH WITH GROUND LEVEL.
FND	FOUND #5 REBAR W/ 2" ALUM. CAP MKD. "CIVILARTS-DREXEL PLS 24305".

LEGEND	
NFS	MONUMENT NOT FOUND OR SET.

FRANK N. DREXEL
 COLORADO REGISTERED PROFESSIONAL
 LAND SURVEYOR NO. 24305
 DATE: _____

After recording, return to:
Public Service Company of Colorado
1800 Larimer Street, Suite 400
Denver, CO 80202
Attn: Tyler Swanson

DIVISION: SITING & LAND RIGHTS	ROW AGENT: T. SWANSON	DOC. NO. 193498
LOCATION: 1800 LARIMER ST., SUITE 400, DENVER, CO 80202	DESCRIPTION AUTHOR: AGENT AUTHOR ADDRESS:	PLAT/GRID NO: 2203 Wo/Jo/CREG NO:

ACCESS EASEMENT

DAVID EBERHARD, a property owner (“Grantor”) for good and valuable consideration the receipt and adequacy of which is acknowledged, hereby grants, sells, and conveys to PUBLIC SERVICE COMPANY OF COLORADO, a Colorado corporation, with an address of 1800 Larimer Street, Denver, CO 80202-1414 (“Company”), a perpetual, non-exclusive easement (“Easement”) through, over, and across the Easement Area, described below, for pedestrian and vehicular access for Company, its contractors, agents, and invitees. The “Easement Area” is defined as the following described premises:

SEE EXHIBIT A ATTACHED HERETO AND INCORPORATED
HEREIN BY THIS REFERENCE

Together with the right to enter upon said Easement Area with personnel, equipment and vehicles, and, at the option of Company, to survey, construct, maintain, operate, repair, and replace improvements on the Easement Area, including a dirt or gravel road.

No temporary or permanent buildings, structures (including without limitation trailers or mobile homes), signs, or wells shall be placed or permitted to remain on, under, or over the Easement Area by Grantor. No other objects shall be erected, placed, or permitted to remain on, under, or over the Easement Area, which will or may interfere with the exercise of any of the rights herein, or that prevent or obstruct the passage of pedestrians or vehicles. Grantor shall not, without the prior written approval of Company, alter the existing ground elevations or change the compaction of the soil on the Easement Area. No failure by Company to remove or otherwise raise an objection to any objects or improvements located or installed on the Easement Area by Grantor, shall be deemed to constitute consent on the part of Company to such improvements or objects, nor a waiver of Company’s rights regarding removal of any such improvements or objects. Notwithstanding the foregoing, Grantor may, at its sole cost and expense, erect and maintain a fence across the Easement Area, provided: (i) at all times the Easement Area are passable by Company, its contractors, agents, and invitees, through a gate no less than fifteen (15) feet wide; and (ii) Company is provided a key, access code, or other means of releasing any lock or security device on such gate.

Subject to the restrictions and limitations set forth herein, Grantor shall have the right to use the Easement Area for any purpose that does not interfere with Company’s use of the Easement Area as provided for herein, including the right to permit others to use or to install underground utilities in, under or along the Easement Area with the prior written consent of Company,

provided that the same shall not interfere with Company's use of the Easement Area as provided herein. No delay or omission in the exercise of any right or remedy accruing to Company upon any breach shall impair such right or remedy or be construed as a waiver of any such breach or of a subsequent breach of the same or any other term, covenant or condition herein contained. No amendment, modification or supplement to this Easement shall be binding on Company unless made in writing and executed by an authorized representative of Company. No waiver by Company of any provision hereof, nor any approval of Company required herein, shall be deemed to have been made unless made in writing and signed by an authorized representative of Company.

The provisions of this Easement shall run with, be binding on and burden the Easement Area and shall bind and benefit the heirs, executors, administrators, personal representatives, successors, and assigns of Grantor and Company. The term "Grantor" includes the singular, plural, feminine, masculine and neuter.

Grantor warrants and represents that Grantor is the owner of the Easement Area and has the right to sell, transfer, convey, confirm and grant this Easement and the rights contained herein. This Easement is binding on Grantor, is not conditioned upon obtaining the consent of any third party, and is not subject to any mortgages or liens, except those for which Grantor has provided Grantee with a consent and subordination agreement, executed by such mortgagee or lienholder and attached hereto.

This Easement incorporates all agreements between the parties as to the subject matter of this Easement, and no prior representations or statements, verbal or written, shall modify, supplement or change the terms of this Easement. This Easement consists of the document entitled "Easement", and an Exhibit containing a legal description and a sketch depicting the legal description, if referenced above or attached hereto. No other exhibit, addendum, schedule or other attachment (collectively "Addendum") is authorized by Company, and no Addendum shall be effective and binding upon Company unless executed by an authorized representative of Company.

Signed this 3rd day of November, 2020.

[See next page for signature(s) and acknowledgment(s)]

GRANTOR:

By: [Signature]

STATE OF COLORADO)
COUNTY OF Denver) ss.

The foregoing instrument was acknowledged before me this 3rd day of November, 2020
by David E. Howard

Witness my hand and official seal.

My commission expires: 9/12/2021

[Signature]
Notary Public JB

**JINNA C BERRY
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20094027666
MY COMMISSION EXPIRES 09/12/2021**

**JINNA C BERRY
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20094027666
MY COMMISSION EXPIRES 09/12/2021**

K.P. KAUFFMAN COMPANY, INC.

WORLD TRADE CENTER
1675 BROADWAY, 28TH FLOOR
DENVER, COLORADO 80202-4628
TELEPHONE (303) 825-4822
FACSIMILE (303) 825-4825
www.kpk.com



May 24, 2018

Mr. David Eberhard
12585 Troy St
Henderson, CO 80640

**Re: Property at 33505 E. 133rd Court
Adams County, Colorado
Section 30: Township 1 South, Range 64 West, 6th P.M.**

Dear David:

As a follow up to our discussions and meeting on-site on your property, K.P. Kauffman Company, Inc., ("KPK") for the purpose of your plans to develop your parcel of land, will vacate the easement that runs along your property. However, as we discussed KPK does expect to have uninterrupted access to its wellbore north of your property.

Should you have any questions or concerns, please contact me at (303) 825-4822 or my email amehler@kpk.com.

Thank You

A handwritten signature in blue ink, appearing to read 'AM', is written over the typed name and title. The signature is fluid and stylized, with a long horizontal stroke extending to the right.

Avi Mehler
Land Department



Development Team Review Comments

The following comments have been provided by reviewers of your land use application. At this time, a resubmittal of your application is required before this case is ready to be scheduled for public hearing.

To prepare your resubmittal, you will be expected to provide:

- A response to each comment with a description of the revisions and the page of the response on the site plan;
- Any revised plans or renderings; and
- A list identifying any additional changes made to the original submission other than those required by staff.

Resubmittal documents must be provided in person to the One-Stop Customer Service Center of the Community and Economic Development Department. The following items will be expected by our One-Stop Customer Service Center:

- One paper copy of all new materials
 - Paper copies shall not exceed 11"x17" (exception shall be made only for construction drawings or engineering plan review)
 - All paper copies shall be accompanied by the attached Resubmittal Form
- One digital copy of all new materials
 - All digital materials shall be in a single PDF document
 - The single PDF document shall be bookmarked
 - If a Subdivision Improvements Agreement, Legal Description, or Development Agreement is required, then an additional Microsoft Word version of these documents shall also be provided



Re-submittal Form

Case Name/ Number: _____

Case Manager: _____

Re-submitted Items:

- Development Plan/ Site Plan
- Plat
- Parking/ Landscape Plan
- Engineering Documents
- Subdivision Improvements Agreement
- Other: _____

*** All re-submittals must have this cover sheet and a cover letter addressing review comments.**

Please note the re-submittal review period is 21 days.

The cover letter must include the following information:

- Restate each comment that requires a response
- Provide a response below the comment with a description of the revisions
- Identify any additional changes made to the original document

For County Use Only:

Date Accepted:

Staff (accepting intake):

Resubmittal Active: ~~Addressing, Building Safety, Neighborhood Services,~~

Engineering, ~~Environmental, Parks, Planner, ROW, SIA - Finance, SIA - Attorney~~

Commenting Division: Development Services, Planning

Resubmittal Required

Name of Reviewer: Holden Pederson

Email and Phone Number: HPederson@adcogov.org / 720-523-6847

PLN1: Please expand on the provided written description for this project in order to explain why this Roadway Vacation is being pursued by the applicant. During the public hearing to consider whether this request will be approved or denied, staff will need to describe the purpose or intention of this request to the Board of County Commissioners.

PLN2: Applicant must provide proof of correspondence with Xcel Energy in order to determine whether there is a possible conflict with this vacation request, as mentioned in their external referral agency comment letter.

PLN3: The vacation request cannot leave any land adjoining the roadway without an established public road or private access easement connecting said land with another established public road.

PLN4: There appears to be an existing oil and gas facility located to the north of your property that receives access to their site from East 136th Avenue. Please provide any additional information that is available about this site and the existing point of access.

- a. Depending on the information staff receives and the determination made by my Department, you may be required to grant a private access easement in order for that facility to continue accessing their site.
- b. The property owner at 13850 Watkins Road was not contacted by staff during the referral period. That property owner will be contacted by staff once your application resubmittal is received in order to determine whether or not they are supportive of this vacation request that may directly impact operations on their property; therefore, it may be in your best interest to reach out directly to the property owner or the oil and gas company in order to expedite that process.

PLN5: The East 136th Avenue right-of-way from the northeast corner of the applicant's property and further east has previously been vacated by the Crestwood Estates PUD (reception # 2005000858820).

Commenting Division: Development Services, Engineering

Resubmittal Required

Name of Reviewer: Eden Steele

Email and Phone Number: ESTeele@adcogov.org / 720-523-6897

ENG1: There appears to be 30 feet of ROW on the land survey plat and 40 feet of ROW on the roadway vacation plat. Please explain.

Commenting Division: Development Services, Right-of-Way

Resubmittal Required

Name of Reviewer: Holden Pederson

Email and Phone Number: HPederson@adcogov.org / 720-523-6847

ROW1: Must add two signature blocks to Sheet 1 of the Vacation Plat: One for "Board of County Commissioners Approval" to be signed by the "Chair," and the other for the "Clerk and Recorder's Certificate" to be signed by "Clerk and Recorder," "Deputy," and to include a line for the future "Instrument No."

ROW2: Must add a vicinity map to Sheet 1 of the Vacation Plat.

ROW3: Because Watkins Farms is not an approved subdivision, please remove the "Watkins Farms" title and owner's name from the Plat drawing. Include instead for each parcel the reception number or recording information and the parcel number.

ROW4: Streets –Widths shall be labeled from each right-of-way line normal to the corresponding street center line. All street center lines defined by the plat will be clearly distinguishable from other map lines by use of distinct line type and/or thickness. The plat shall show the right-of-way lines, widths, locations and street names of all existing and proposed public or private streets: within the proposed subdivision, and immediately abutting the proposed subdivision,

ROW5: Multiple Sheets – Whenever a plat drawing spans multiple sheets, clear and well labeled match lines and a key map shall be included on each sheet. Labels will be of the nature "See Sheet of ". Duplicate street names, widths, lot numbers, tract names, easement labeling or any such labeling when any feature is shown on multiple sheets.

ROW6: Adjacent Subdivision – Names of adjacent platted areas along with the reception and/or plat book and page number shall be shown. If unplatted, so indicate. Show and label all existing lots and blocks that are immediately adjacent to the subdivision boundary.

ROW7: Legend – Provide a legend which designates all lines and symbols except where called out on plat drawing.

ROW8: Submit a title commitment which should be used to depict the applicable recordings on the plat. Send Adams County a copy of the title commitment with your application dated no later than 30 days to review in order to ensure that any other party's interests are not encroached upon. All applicable easements/exceptions should be accurately shown and labeled on the plat.

ROW9: If the location of any of the easements defined within the Schedule B- Section 2 Exceptions of the title commitment are not shown on the plat, please provide a statement or general note as to why (i.e. Exception 11- Rec No: 2013000080129).

ROW10: Additional comments are included on the Plat Redlines document. Additional redlines may be required in order to address the inclusion of a Title Commitment as part of the application resubmittal.

Commenting Division: Development Services, Environmental Analyst

Complete

Name of Reviewer: Katie Keefe

Email and Phone Number: KKeefe@adcogov.org / 720-523-6986

No comment.

Commenting Division: Development Services, Building and Safety

Complete

Name of Reviewer: Justin Blair

Email and Phone Number: jblair@adcogov.org / 720-523-6843

No comment.

Commenting Division: Parks and Open Space

Complete

Name of Reviewer: Aaron Clark

Email and Phone Number: AClark@adcogov.org / 720-523-8005

No comment.



Right of Way & Permits

1123 West 3rd Avenue
Denver, Colorado 80223
Telephone: **303.571.3306**
Facsimile: 303. 571. 3284
donna.l.george@xcelenergy.com

May 20, 2020

Adams County Community and Economic Development Department
4430 South Adams County Parkway, 3rd Floor, Suite W3000
Brighton, CO 80601

Attn: Holden Pederson

Re: Eberhard Roadway Vacation, Case # VAC2020-00001

Public Service Company of Colorado's (PSCo) Right of Way & Permits Referral Desk has determined **there is a possible conflict** with the above captioned project. Public Service Company has existing electric transmission lines and associated land rights in this area and would like the property owner/developer/contractor to *verify whether or not these facilities are in conflict with the proposed vacation* by going to the website at www.xcelenergy.com/rightofway or email coloradorightofway@xcelenergy.com to have this project assigned to a Land Rights Agent for development plan review.

Please note there are no PSCo natural gas or electric distribution or high-pressure gas transmission facilities in this area, and otherwise has no conflict.

Donna George
Right of Way and Permits
Public Service Company of Colorado / Xcel Energy
Office: 303-571-3306 – Email: donna.l.george@xcelenergy.com

From: [Flores, Miguel](#)
To: [Holden Pederson](#)
Cc: [Lowe, Thomas](#); [LandUse@tchd.org](#); [Christine Fitch](#); [Gail Moon](#); [Justin Blair](#); [Aaron Clark](#); [Marc Pedrucci](#); [Rick Reigenborn](#); [Community Connections](#); [Brandyn.Wiedrich@CenturyLink.com](#); [ddfinley@juno.com](#); [CSIMMONDS@MWRD.DST.CO.US](#); [Donna.L.George@xcelenergy.com](#); [planreviews@brightonfire.org](#); [kmonti@sd27j.org](#); [platreferral@unitedpower.com](#); [engineering@rtd-denver.com](#)
Subject: RE: Request for Comments: VAC2020-00001 Eberhard Roadway Vacation
Date: Tuesday, May 19, 2020 3:00:56 PM
Attachments: [image003.png](#)
[Simple RFC.pdf](#)

Please be cautious: This email was sent from outside Adams County

I apologize this was in my drafts, I meant to send it last week.

Hello Holden,

Looking at our plant maps, we currently do not have plant in the easement.

This letter is for written approval to vacate the easement of said parcel #015653020000.

Thank you,

Miguel Flores

Construction Supervisor – Northern Colorado

Miguel_Flores@cable.comcast.com

720-413-0113 mobile



From: Lowe, Thomas <Thomas_Lowe@cable.comcast.com>
Sent: Tuesday, May 5, 2020 2:09 PM
To: Flores, Miguel <Miguel_Flores@cable.comcast.com>
Subject: FW: Request for Comments: VAC2020-00001 Eberhard Roadway Vacation

From: Holden Pederson <HPederson@adcogov.org>
Sent: Tuesday, May 5, 2020 1:58 PM
To: Land Use <LandUse@tchd.org>; Christine Fitch <CFitch@adcogov.org>; Gail Moon <GMoon@adcogov.org>; Justin Blair <jblair@adcogov.org>; Aaron Clark <AClark@adcogov.org>; Marc Pedrucci <MPedrucci@adcogov.org>; Rick Reigenborn <RReigenborn@adcogov.org>; Community Connections <CommunityConnections@adcogov.org>; planreviews@brightonfire.org; kmonti@sd27j.org; Wiedrich, Brandyn <Brandyn.Wiedrich@CenturyLink.com>; Lowe, Thomas <Thomas_Lowe@cable.comcast.com>; ddfinley@juno.com; CSIMMONDS@MWRD.DST.CO.US; engineering@rtd-denver.com; platreferral@unitedpower.com; George, Donna L <Donna.L.George@xcelenergy.com>
Subject: [EXTERNAL] Request for Comments: VAC2020-00001 Eberhard Roadway Vacation

From: [United Power Plat Referral](#)
To: [Holden Pederson](#)
Subject: FW: Request for Comments: VAC2020-00001 Eberhard Roadway Vacation
Date: Tuesday, May 19, 2020 12:54:01 PM
Attachments: [Simple RFC.pdf](#)

Please be cautious: This email was sent from outside Adams County

Hello,

Thank you for inviting United Power, Inc. to review and comment on the Eberhard Roadway Vacation. After review, United Power does not have existing electrical service or equipment in this location; therefore, we have no concerns/comment with the ROW being vacated on the North side of the property, along 136th Ave. Please let me know if you have any questions.

Thank you,

Samantha

Right of Way Administrative Assistant
303-637-1324



500 Cooperative Way | Brighton, CO 80603
Powering Lives, Powering Change, Powering the Future – The Cooperative Way
www.unitedpower.com

From: Holden Pederson <HPederson@adcogov.org>
Sent: Tuesday, May 5, 2020 1:58 PM
To: Land Use <LandUse@tchd.org>; Christine Fitch <CFitch@adcogov.org>; Gail Moon <GMoon@adcogov.org>; Justin Blair <jblair@adcogov.org>; Aaron Clark <AClark@adcogov.org>; Marc Pedrucci <MPedrucci@adcogov.org>; Rick Reigenborn <RReigenborn@adcogov.org>; Community Connections <CommunityConnections@adcogov.org>; planreviews@brightonfire.org; kmonti@sd27j.org; Wiedrich, Brandyn <Brandyn.Wiedrich@CenturyLink.com>; thomas_lowe@cable.comcast.com; ddfinley@juno.com; CSIMMONDS@MWRD.DST.CO.US; engineering@rtd-denver.com; United Power Plat Referral <platreferral@UnitedPower.com>; George, Donna L <Donna.L.George@xcelenergy.com>
Subject: Request for Comments: VAC2020-00001 Eberhard Roadway Vacation

CAUTION: This email originated from outside of United Power. Do not click links or open attachments unless you recognize the sender and know the content is safe.

The Adams County Board of County Commissioners is requesting comments on the following application: Vacate the portion of East 136th Avenue right-of-way that is located along the applicant's north property line. This request is located at 33505 E 133RD COURT. The Assessor's Parcel Number is 0156530200001.

Applicant Information: DAVID EBERHARD



May 18, 2020

Holden Pederson
Adams County Community and Economic Development
4430 South Adams County Parkway, Suite W2000A
Brighton, CO 80601

RE: Eberhard Roadway Vacation, VAC2020-00001
TCHD Case No. 6265

Dear Mr. Holden,

Thank you for the opportunity to review and comment on Vacation of Right of Way for the vacation of a portion of 136th Court north of the property located at 33505 E 133rd Court. Tri-County Health Department (TCHD) staff has reviewed the application for compliance with applicable environmental and public health regulations and principles of healthy community design. After reviewing the application, TCHD has no comments.

Please feel free to contact me at 720-200-1537 or pmoua@tchd.org if you have any questions about TCHD's comments.

A handwritten signature in black ink, appearing to read "Pang Moua", with a stylized flourish at the end.

Sincerely,

Pang Moua, MPP
Land Use and Built Environment Specialist

cc: Sheila Lynch, Monte Deatrich, TCHD

From: [Woodruff, Clayton](#)
To: [Holden Pederson](#)
Subject: RE VAC 2020 00001
Date: Wednesday, May 20, 2020 9:29:18 PM

Please be cautious: This email was sent from outside Adams County

Holden,

RTD has no comment on this project

Thanks



C. Scott Woodruff
Engineer III

Regional Transportation District
1560 Broadway, Suite 700, FAS-73 | Denver, CO 80202

o 303.299.2943 | m 303-720-2025
clayton.woodruff@rtd-denver.com



Development Team Review Comments

The following comments have been provided by reviewers of your land use application. At this time, a resubmittal of your application is required before this case is ready to be scheduled for public hearing.

To prepare your resubmittal, you will be expected to provide:

- A response to each comment with a description of the revisions and the page of the response on the site plan;
- Any revised plans or renderings; and
- A list identifying any additional changes made to the original submission other than those required by staff.

Resubmittal documents must be provided in person to the One-Stop Customer Service Center of the Community and Economic Development Department. The following items will be expected by our One-Stop Customer Service Center:

- One paper copy of all new materials
 - Paper copies shall not exceed 11"x17" (exception shall be made only for construction drawings or engineering plan review)
 - All paper copies shall be accompanied by the attached Resubmittal Form
- One digital copy of all new materials
 - All digital materials shall be in a single PDF document
 - The single PDF document shall be bookmarked
 - If a Subdivision Improvements Agreement, Legal Description, or Development Agreement is required, then an additional Microsoft Word version of these documents shall also be provided



Re-submittal Form

Case Name/ Number: _____

Case Manager: _____

Re-submitted Items:

- Development Plan/ Site Plan
- Plat
- Parking/ Landscape Plan
- Engineering Documents
- Subdivision Improvements Agreement
- Other: _____

*** All re-submittals must have this cover sheet and a cover letter addressing review comments.**

Please note the re-submittal review period is 21 days.

The cover letter must include the following information:

- Restate each comment that requires a response
- Provide a response below the comment with a description of the revisions
- Identify any additional changes made to the original document

For County Use Only:

Date Accepted:

Staff (accepting intake):

Resubmittal Active: ~~Addressing, Building Safety, Neighborhood Services,~~

~~Engineering, Environmental, Parks, Planner, ROW, SIA - Finance, SIA - Attorney~~

Commenting Division: Planning

Resubmittal Required

Name of Reviewer: Holden Pederson

Email and Phone Number: HPederson@adcogov.org / 720-523-6847

PLN1: Applicant must provide proof of correspondence with Xcel Energy (in the form of a letter or screenshots of email correspondence) in order to determine whether or not there is a possible conflict with this vacation request, as mentioned in their external referral agency comment letter.

Commenting Division: Engineering

Complete

Name of Reviewer: Eden Steele

Email and Phone Number: ESTeele@adcogov.org / 720-523-6897

No comment.

Commenting Division: Right-of-Way

Resubmittal Required

Name of Reviewer: Mark Alessi

Email and Phone Number: MAlessi@adcogov.org / 720-523-6825

ROW1: Applicant can only vacate 40' that was dedicated to them through Adams County Reception # 2008000027538. What you have on the plat is perfect.

ROW2: Please update title.

ROW3: Please add note that Xcel and KPK may continue to have uninterrupted access to facilities on property.

ROW4: Please continue to coordinate with Xcel to verify line is on neighbors to the north property.

ROW5: See minor redlines on plat.

From: [BFR Plan Reviews](#)
To: [Holden Pederson](#)
Subject: RE: Request for Comments: VAC2020-00001 Eberhard Roadway Vacation
Date: Monday, June 1, 2020 2:02:34 PM
Attachments: [image002.png](#)

Please be cautious: This email was sent from outside Adams County

Good afternoon,

The Fire District has no comments or concerns at this time.

Thank you!



Carla Gutierrez

Fire Inspector
Brighton Fire Rescue District
500 S. 4th Ave – 3rd Floor
Brighton CO 80601
Office: 303.654.8042 / Cell: 720-684-7669
www.brightonfire.org

From: Holden Pederson <HPederson@adcogov.org>
Sent: Tuesday, May 5, 2020 1:58 PM
To: Land Use <LandUse@tchd.org>; Christine Fitch <CFitch@adcogov.org>; Gail Moon <GMoon@adcogov.org>; Justin Blair <jblair@adcogov.org>; Aaron Clark <AClark@adcogov.org>; Marc Pedrucci <MPedrucci@adcogov.org>; Rick Reigenborn <RReigenborn@adcogov.org>; Community Connections <CommunityConnections@adcogov.org>; BFR Plan Reviews <planreviews@brightonfire.org>; kmonti@sd27j.org; Wiedrich, Brandyn <Brandyn.Wiedrich@CenturyLink.com>; thomas_lowe@cable.comcast.com; ddfinley@juno.com; CSIMMONDS@MWRD.DST.CO.US; engineering@rtd-denver.com; platreferral@unitedpower.com; George, Donna L <Donna.L.George@xcelenergy.com>
Subject: Request for Comments: VAC2020-00001 Eberhard Roadway Vacation

The Adams County Board of County Commissioners is requesting comments on the following application: Vacate the portion of East 136th Avenue right-of-way that is located along the applicant's north property line. This request is located at 33505 E 133RD COURT. The Assessor's Parcel Number is 0156530200001.

Applicant Information: DAVID EBERHARD
12585 TROY ST
HENDERSON, CO 80640

From: [Flores, Miguel](#)
To: [Holden Pederson](#)
Cc: [Lowe, Thomas](#); [LandUse@tchd.org](#); [Christine Fitch](#); [Gail Moon](#); [Justin Blair](#); [Aaron Clark](#); [Marc Pedrucci](#); [Rick Reigenborn](#); [Community Connections](#); [Brandyn.Wiedrich@CenturyLink.com](#); [ddfinley@juno.com](#); [CSIMMONDS@MWRD.DST.CO.US](#); [Donna.L.George@xcelenergy.com](#); [planreviews@brightonfire.org](#); [kmonti@sd27j.org](#); [platreferral@unitedpower.com](#); [engineering@rtd-denver.com](#)
Subject: RE: Request for Comments: VAC2020-00001 Eberhard Roadway Vacation
Date: Tuesday, May 19, 2020 3:00:56 PM
Attachments: [image003.png](#)
[Simple RFC.pdf](#)

Please be cautious: This email was sent from outside Adams County

I apologize this was in my drafts, I meant to send it last week.

Hello Holden,

Looking at our plant maps, we currently do not have plant in the easement.

This letter is for written approval to vacate the easement of said parcel #015653020000.

Thank you,

Miguel Flores

Construction Supervisor – Northern Colorado

Miguel_Flores@cable.comcast.com

720-413-0113 mobile



From: Lowe, Thomas <Thomas_Lowe@cable.comcast.com>
Sent: Tuesday, May 5, 2020 2:09 PM
To: Flores, Miguel <Miguel_Flores@cable.comcast.com>
Subject: FW: Request for Comments: VAC2020-00001 Eberhard Roadway Vacation

From: Holden Pederson <HPederson@adcogov.org>
Sent: Tuesday, May 5, 2020 1:58 PM
To: Land Use <LandUse@tchd.org>; Christine Fitch <CFitch@adcogov.org>; Gail Moon <GMoon@adcogov.org>; Justin Blair <jblair@adcogov.org>; Aaron Clark <AClark@adcogov.org>; Marc Pedrucci <MPedrucci@adcogov.org>; Rick Reigenborn <RReigenborn@adcogov.org>; Community Connections <CommunityConnections@adcogov.org>; planreviews@brightonfire.org; kmonti@sd27j.org; Wiedrich, Brandyn <Brandyn.Wiedrich@CenturyLink.com>; Lowe, Thomas <Thomas_Lowe@cable.comcast.com>; ddfinley@juno.com; CSIMMONDS@MWRD.DST.CO.US; engineering@rtd-denver.com; platreferral@unitedpower.com; George, Donna L <Donna.L.George@xcelenergy.com>
Subject: [EXTERNAL] Request for Comments: VAC2020-00001 Eberhard Roadway Vacation

The Adams County Board of County Commissioners is requesting comments on the following application: Vacate the portion of East 136th Avenue right-of-way that is located along the applicant's north property line. This request is located at 33505 E 133RD COURT. The Assessor's Parcel Number is 0156530200001.

Applicant Information: DAVID EBERHARD
12585 TROY ST
HENDERSON, CO 80640

Please forward any written comments on this application to the Community and Economic Development Department at 4430 South Adams County Parkway, Suite W2000A Brighton, CO 80601 8216 (720) 523 6800 by **5/20/2020** in order that your comments may be taken into consideration in the review of this case. If you would like your comments included verbatim please send your response by way of e mail to HPederson@adcogov.org.

Once comments have been received and the staff report written, the staff report and notice of public hearing dates may be forwarded to you upon request. The full text of the proposed request and additional colored maps can be obtained by contacting this office or by accessing the Adams County web site at www.adcogov.org/planning/currentcases.

Thank you for your review of this case,

Holden Pederson

Planner I, *Community and Economic Development*

ADAMS COUNTY, COLORADO

4430 S Adams County Pkwy, W2410

Brighton, CO 80601

o: 720.523.6847 | HPederson@adcogov.org

www.adcogov.org

From: [Woodruff, Clayton](#)
To: [Holden Pederson](#)
Subject: RE VAC 2020 00001
Date: Wednesday, May 20, 2020 9:29:18 PM

Please be cautious: This email was sent from outside Adams County

Holden,

RTD has no comment on this project

Thanks



C. Scott Woodruff
Engineer III

Regional Transportation District
1560 Broadway, Suite 700, FAS-73 | Denver, CO 80202

o 303.299.2943 | m 303-720-2025
clayton.woodruff@rtd-denver.com



May 18, 2020

Holden Pederson
Adams County Community and Economic Development
4430 South Adams County Parkway, Suite W2000A
Brighton, CO 80601

RE: Eberhard Roadway Vacation, VAC2020-00001
TCHD Case No. 6265

Dear Mr. Holden,

Thank you for the opportunity to review and comment on Vacation of Right of Way for the vacation of a portion of 136th Court north of the property located at 33505 E 133rd Court. Tri-County Health Department (TCHD) staff has reviewed the application for compliance with applicable environmental and public health regulations and principles of healthy community design. After reviewing the application, TCHD has no comments.

Please feel free to contact me at 720-200-1537 or pmoua@tchd.org if you have any questions about TCHD's comments.

A handwritten signature in black ink, appearing to be "Pang Moua", with a stylized, flowing script.

Sincerely,

Pang Moua, MPP
Land Use and Built Environment Specialist

cc: Sheila Lynch, Monte Deatrich, TCHD

From: [United Power Plat Referral](#)
To: [Holden Pederson](#)
Subject: FW: Request for Comments: VAC2020-00001 Eberhard Roadway Vacation
Date: Tuesday, May 19, 2020 12:54:01 PM
Attachments: [Simple RFC.pdf](#)

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Hello,

Thank you for inviting United Power, Inc. to review and comment on the Eberhard Roadway Vacation. After review, United Power does not have existing electrical service or equipment in this location; therefore, we have no concerns/comment with the ROW being vacated on the North side of the property, along 136th Ave. Please let me know if you have any questions.

Thank you,

Samantha

Right of Way Administrative Assistant
303-637-1324



500 Cooperative Way | Brighton, CO 80603
Powering Lives, Powering Change, Powering the Future – The Cooperative Way
www.unitedpower.com

From: Holden Pederson <HPederson@adcogov.org>
Sent: Tuesday, May 5, 2020 1:58 PM
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Subject: Request for Comments: VAC2020-00001 Eberhard Roadway Vacation

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The Adams County Board of County Commissioners is requesting comments on the following application: Vacate the portion of East 136th Avenue right-of-way that is located along the applicant's north property line. This request is located at 33505 E 133RD COURT. The Assessor's Parcel Number is 0156530200001.

Applicant Information: DAVID EBERHARD



Right of Way & Permits

1123 West 3rd Avenue
Denver, Colorado 80223
Telephone: **303.571.3306**
Facsimile: 303. 571. 3284
donna.l.george@xcelenergy.com

May 20, 2020

Adams County Community and Economic Development Department
4430 South Adams County Parkway, 3rd Floor, Suite W3000
Brighton, CO 80601

Attn: Holden Pederson

Re: Eberhard Roadway Vacation, Case # VAC2020-00001

Public Service Company of Colorado's (PSCo) Right of Way & Permits Referral Desk has determined **there is a possible conflict** with the above captioned project. Public Service Company has existing electric transmission lines and associated land rights in this area and would like the property owner/developer/contractor to *verify whether or not these facilities are in conflict with the proposed vacation* by going to the website at www.xcelenergy.com/rightofway or email coloradorightofway@xcelenergy.com to have this project assigned to a Land Rights Agent for development plan review.

Please note there are no PSCo natural gas or electric distribution or high-pressure gas transmission facilities in this area, and otherwise has no conflict.

Donna George
Right of Way and Permits
Public Service Company of Colorado / Xcel Energy
Office: 303-571-3306 – Email: donna.l.george@xcelenergy.com



Request for Comments

Case Name: Eberhard Roadway Vacation
Case Number: VAC2020-00001

May 5, 2020

The Adams County Board of County Commissioners is requesting comments on the following application: **Vacate the portion of East 136th Avenue right-of-way that is located along the applicant's north property line.** This request is located at 33505 E 133RD COURT. The Assessor's Parcel Number is 0156530200001.

Applicant Information:

DAVID EBERHARD
12585 TROY ST
HENDERSON, CO 80640

Please forward any written comments on this application to the Community and Economic Development Department at 4430 South Adams County Parkway, Suite W2000A Brighton, CO 80601-8216 or call (720) 523-6800 by **05/20/2020** in order that your comments may be taken into consideration in the review of this case. If you would like your comments included verbatim please send your response by way of e-mail to HPederson@adcogov.org.

Once comments have been received and the staff report written, the staff report and notice of public hearing dates may be forwarded to you upon request. The full text of the proposed request and additional colored maps can be obtained by contacting this office or by accessing the Adams County web site at www.adcogov.org/planning/currentcases.

Thank you for your review of this case.

Holden Pederson
Planner I



Public Hearing Notification

Case Name:	Eberhard Roadway Vacation
Case Number:	VAC2020-00001
Board of County Commissioners Hearing Date:	11/10/2020 at 9:30 a.m.

October 6, 2020

A public hearing has been set by the Adams County Board of County Commissioners to consider the following request:

Vacate the portion of East 136th Avenue right-of-way that is located along the applicant's north property line.

The proposed use will be . This request is located at 33505 E 133RD COURT on undetermined parcel size. The Assessor's Parcel Number(s) 0156530200001

Applicant Information:

DAVID EBERHARD
12585 TROY ST
HENDERSON, CO 80640

This meeting is broadcast live on the Adams County YouTube channel. You can view the meeting live through the county YouTube Channel link: <https://www.youtube.com/channel/UC7KDbF1XykrYlxfhEH5XVA/> and post comments on this agenda through the web at <https://adcogov.legistar.com/Calendar.aspx>

Members of the public may submit written comments on any matter within the Board's subject matter jurisdiction, post comments on this specific agenda item, or request to speak at the meeting through our eComment system at <https://adcogov.legistar.com/Calendar.aspx>

Residents are encouraged to submit comments, prior to the meeting, through written comment using eComment; eComment is integrated with the published meeting agenda and individuals may review the agenda item details and indicate their position on each item. A request to speak at the meeting may also be submitted using the eComment feature. You will be prompted to set up a user profile to allow you to comment, which will become part of the official public record. The eComment period opens when the agenda is published and closes at 4:30 p.m. the Monday prior to the noticed meeting.

BOARD OF COUNTY COMMISSIONERS

Eva J. Henry
DISTRICT 1

Charles "Chaz" Tedesco
DISTRICT 2

Emma Pinter
DISTRICT 3

Steve O'Doriso
DISTRICT 4

Mary Hodge
DISTRICT 5

The full text of the proposed request and additional colored maps can be obtained by contacting this office or by accessing the Adams County web site at www.adcogov.org/planning/currentcases.

Thank you for your review of this case.

A handwritten signature in black ink, appearing to read "Holden Pederson". The signature is fluid and cursive, with a long horizontal stroke at the end.

Holden Pederson
Planner II

PUBLICATION REQUEST

Eberhard Roadway Vacation

Case Number: VAC2020-00001

Planning Commission Hearing Date:

Board of County Commissioners Hearing Date: 11/10/2020 at 9:30 a.m.

Request: Vacate the portion of East 136th Avenue right-of-way that is located along the applicant's north property line.

Location: 33505 E 133RD COURT

Parcel Number: 0156530200001

Case Manager: Holden Pederson

Case Technician:

Applicant: DAVID EBERHARD 720.937.8025
12585 TROY ST
HENDERSON, CO 80640

Owner: EBERHARD DAVID W AND
EBERHARD JENNIFER M
12585 TROY ST
HENDERSON, CO 806409442

Representative:

Legal Description: _____

PUBLICATION REQUEST

Eberhard Roadway Vacation

Case Number: VAC2020-00001

Board of County Commissioners Hearing Date: November 10, 2020 at 9:30 AM

Request: Vacate the portion of East 136th Avenue right-of-way that is located along the applicant's north property line.

Location: 33505 E 133RD COURT

Parcel Number(s): 0156530200001

Case Manager: Holden Pederson

Applicant:
DAVID EBERHARD
12585 TROY ST
HENDERSON, CO 80640

Owner:
EBERHARD DAVID W AND
EBERHARD JENNIFER M
12585 TROY ST
HENDERSON, CO 806409442

Legal Description: SECT,TWN,RNG:30-1-64 DESC: BEG AT THE NW COR OF SD SEC 30 FROM WHICH THE NE COR OF SD SEC 30 BRS S 89D 11M 06M E 5277/85 FT TH S 89D 11M 06S E 1232/12 FT ALG THE N LN OF THE NW4 OF SD SEC 30 TO THE TRUE POB TH S 00D 01M 22S W 1257/20 FT TH S 89D 10M 26S E 1246/25 FT TH N 00D 01M 22S E 1257/44 FT TO THE N LN OF THE NW4 OF SD SEC 30 TH N 89D 11M 06S W 1246/24 FT ALG THE N LN OF THE NW4 OF SD SEC 30 TO THE TRUE POB AND EXC RD 35/8380A



Referral Listing
Case Number VAC2020-00001
Eberhard Roadway Vacation

Agency

Contact Information

Adams County Attorney's Office

Christine Fitch
CFitch@adcogov.org
4430 S Adams County Pkwy
Brighton CO 80601
720-523-6352

Adams County CEDD Development Services Engineer

Devt. Services Engineering
4430 S. Adams County Pkwy.
Brighton CO 80601
720-523-6800

Adams County CEDD Right-of-Way

Marissa Hillje
4430 S. Adams County Pkwy.
Brighton CO 80601
720-523-6837
mhillje@adcogov.org

Adams County Community Safety & Wellbeing, Neighborhood Services

Gail Moon
gmoon@adcogov.org
4430 S. Adams County Pkwy.
Brighton CO 80601
720-523-6856
gmoon@adcogov.org

Adams County Development Services - Building

Justin Blair
4430 S Adams County Pkwy
Brighton CO 80601
720-523-6825
JBlair@adcogov.org

Adams County Parks and Open Space Department

Aaron Clark
(303) 637-8005
aclark@adcogov.org

Adams County Parks and Open Space Department

Marc Pedrucci
303-637-8014
mpedrucci@adcogov.org

Adams County Sheriff's Office: SO-HQ

Rick Reigenborn
(303) 654-1850
rreigenborn@adcogov.org

Adams County Sheriff's Office: SO-SUB

--
303-655-3283
CommunityConnections@adcogov.org

Agency

Contact Information

BRIGHTON FIRE DISTRICT

Whitney Even
500 South 4th Avenue
3rd Floor
BRIGHTON CO 80601
(303) 659-4101
planreviews@brightonfire.org

BRIGHTON SCHOOL DISTRICT 27J

Kerrie Monti
1850 EGBERT STREET
SUITE 140, BOX 6
BRIGHTON CO 80601
303-655-2984
kmonti@sd27j.net

Century Link, Inc

Brandyn Wiedrich
5325 Zuni St, Rm 728
Denver CO 80221
720-578-3724 720-245-0029
brandyn.wiedrich@centurylink.com

COMCAST

JOE LOWE
8490 N UMITILLA ST
FEDERAL HEIGHTS CO 80260
303-603-5039
thomas_lowe@cable.comcast.com

HORSE CREEK METROPOLITAN DISTRICT

..
12000 N WASHINGTON ST #100
THORNTON CO 80241
303-451-6270
ddfinley@juno.com

METRO WASTEWATER RECLAMATION

CRAIG SIMMONDS
6450 YORK ST.
DENVER CO 80229
303-286-3338
CSIMMONDS@MWRD.DST.CO.US

NS - Code Compliance

Gail Moon
gmoon@adcogov.org
720.523.6833
gmoon@adcogov.org

REGIONAL TRANSPORTATION DIST.

Engineering RTD
1560 BROADWAY SUITE 700
DENVER CO 80202
303-299-2439
engineering@rtd-denver.com

United Power

--
303-659-0551
platreferral@unitedpower.com

Xcel Energy

Donna George
1123 W 3rd Ave
DENVER CO 80223
303-571-3306
Donna.L.George@xcelenergy.com

APODACA EDGAR IVAN LEON
5255 MEMPHIS ST UNIT 911
DENVER CO 80239-5252

RAMIREZ ROGELIO L
OR CURRENT RESIDENT
13750 WATKINS RD
BRIGHTON CO 80603-8343

CRESTWOOD ESTATES HOMEOWNERS
ASSOCIATION INC
PO BOX 1365
BRIGHTON CO 80601-1365

CURRENT RESIDENT
33123 E 133RD CT
HUDSON CO 80642-7656

EBERHARD DAVID W AND
EBERHARD JENNIFER M
12585 TROY ST
HENDERSON CO 80640-9442

CURRENT RESIDENT
33505 E 133RD CT
HUDSON CO 80642-7657

ROSALES JOSE AND
ROSALES NAOMI
16161 POPLAR ST
BRIGHTON CO 80602-6081

CURRENT RESIDENT
33737 E 137TH CT
HUDSON CO 80642-7752

SPPT INC
10983 MEADE WAY
WESTMINSTER CO 80031-2129

CURRENT RESIDENT
33756 E 137TH CT
HUDSON CO 80642-7752

SPPT INC
10983 MEADE WAY
WESTMINSTER CO 80031

CURRENT RESIDENT
33806 E 137TH CT
HUDSON CO 80642-7752

TRUONG TOM AND
TRUONG HAO THI LE
2581 SPRUCE LOOP COURT
SYLVANIA OH 43560

CUNEY SEAN AND
CUNEY KRISTA
OR CURRENT RESIDENT
13220 WATKINS RD
HUDSON CO 80642-7630

FUENTES WALER ALEXANDER ECHEVERRIA
OR CURRENT RESIDENT
13650 WATKINS RD
BRIGHTON CO 80603-8358

MCCORMICK RONALD J
OR CURRENT RESIDENT
33400 E 133RD CT
HUDSON CO 80642-7655

CERTIFICATE OF POSTING



I, **Holden Pederson**, do hereby certify that I had the property posted at

33505 East 133rd Court

on October 22, 2020

in accordance with the requirements of the Adams County Zoning Regulations

A handwritten signature in black ink, appearing to read 'Holden Pederson', written in a cursive style.

Holden Pederson

Eberhard Roadway Vacation

VAC2020-00001
33505 East 133rd Court

November 10, 2020

Board of County Commissioners Public Hearing

Case Manager: Holden Pederson



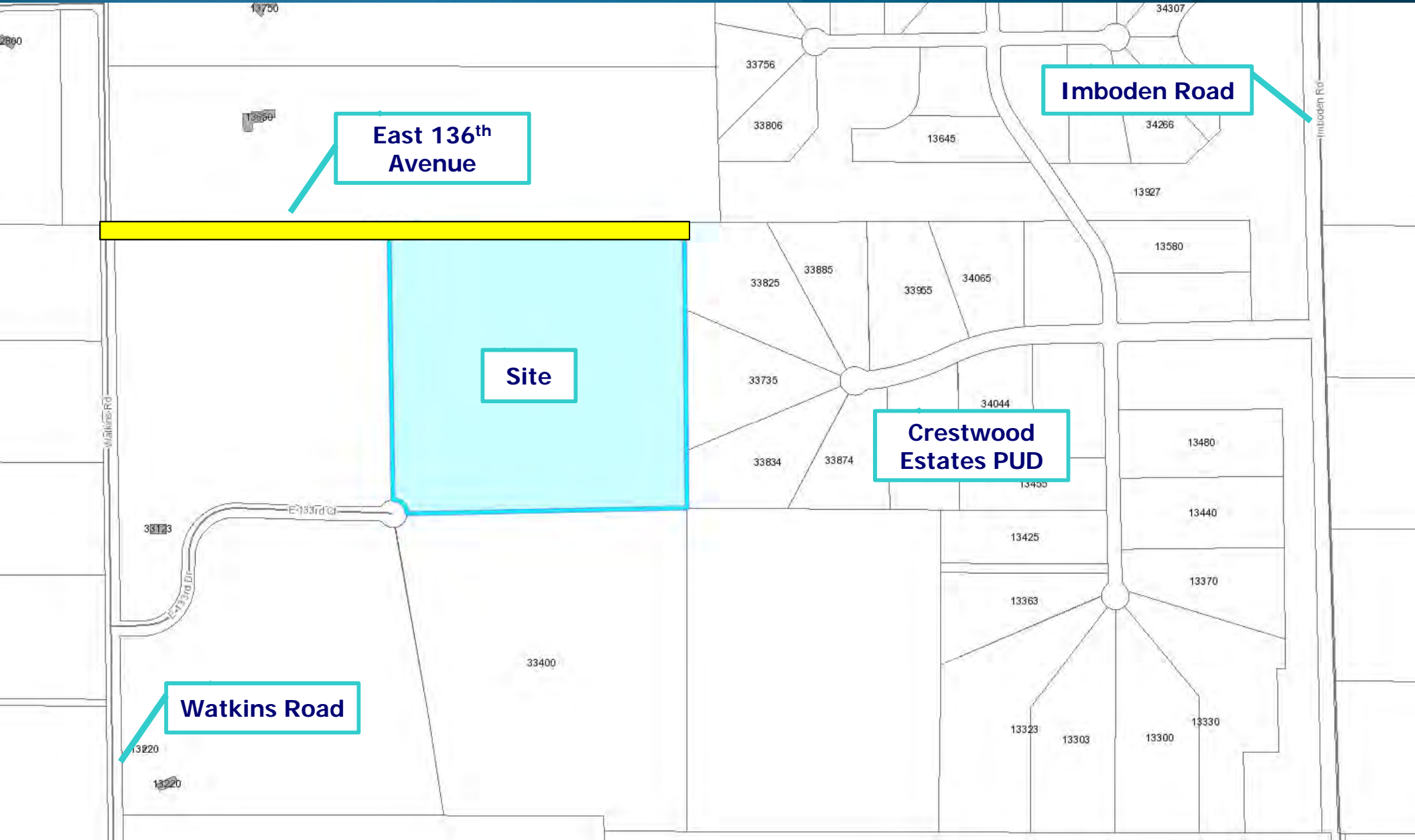
Roadway Vacation Request

- Request to vacate approximately 1,246 linear feet, or 49,850 square feet, of the East 136th Avenue public right-of-way.

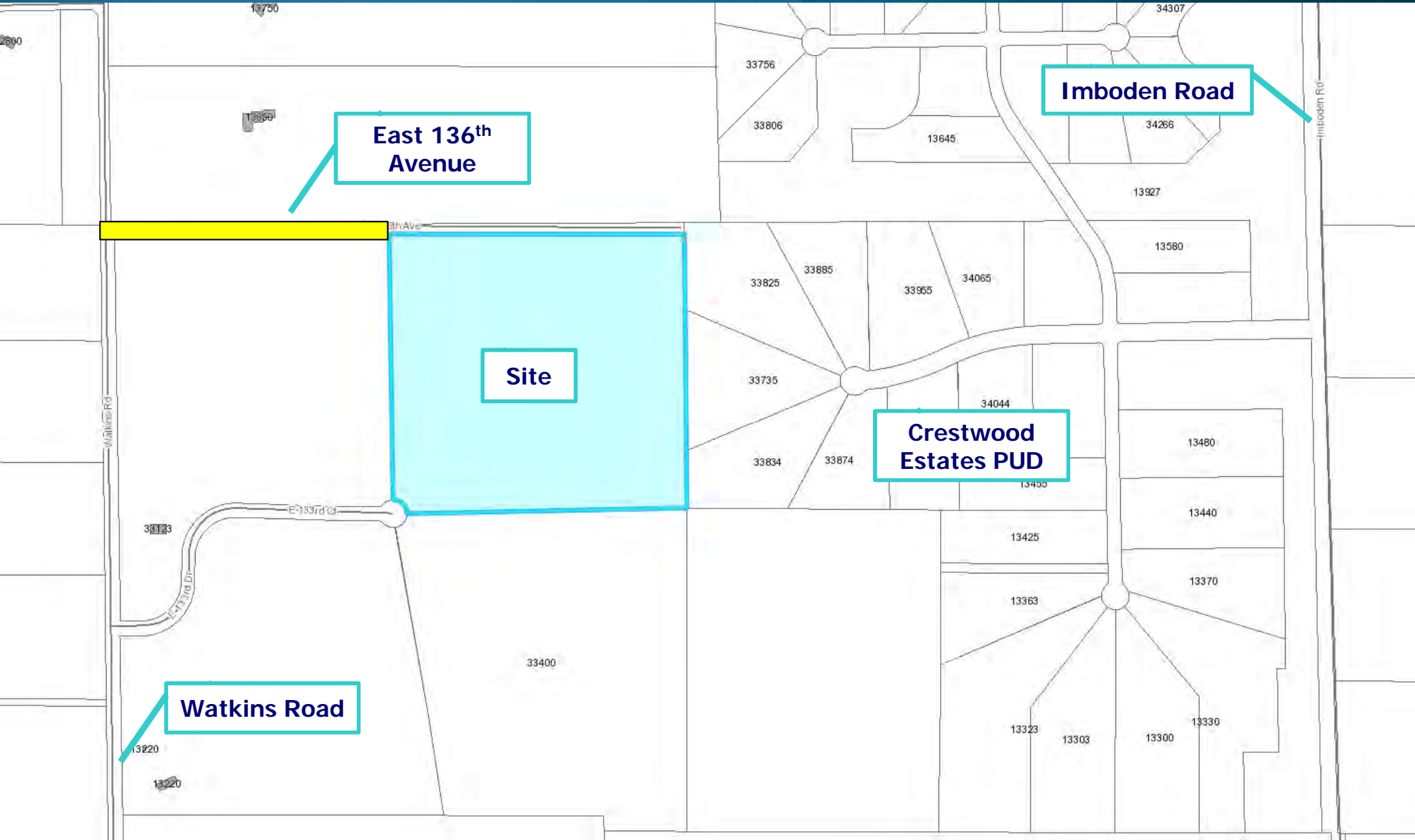
Background

- Although originally dedicated in order to provide a connection between Watkins and Imboden Road at this location, only the portion of the East 136th Avenue right-of-way between Watkins Road and the applicant's east property line remains today.
- The portion of the right-of-way from the applicant's east property line to Imboden Road has already been vacated as part of the 2005 approval for the Crestwood Estates Planned Unit Development (PRJ2005-00042).

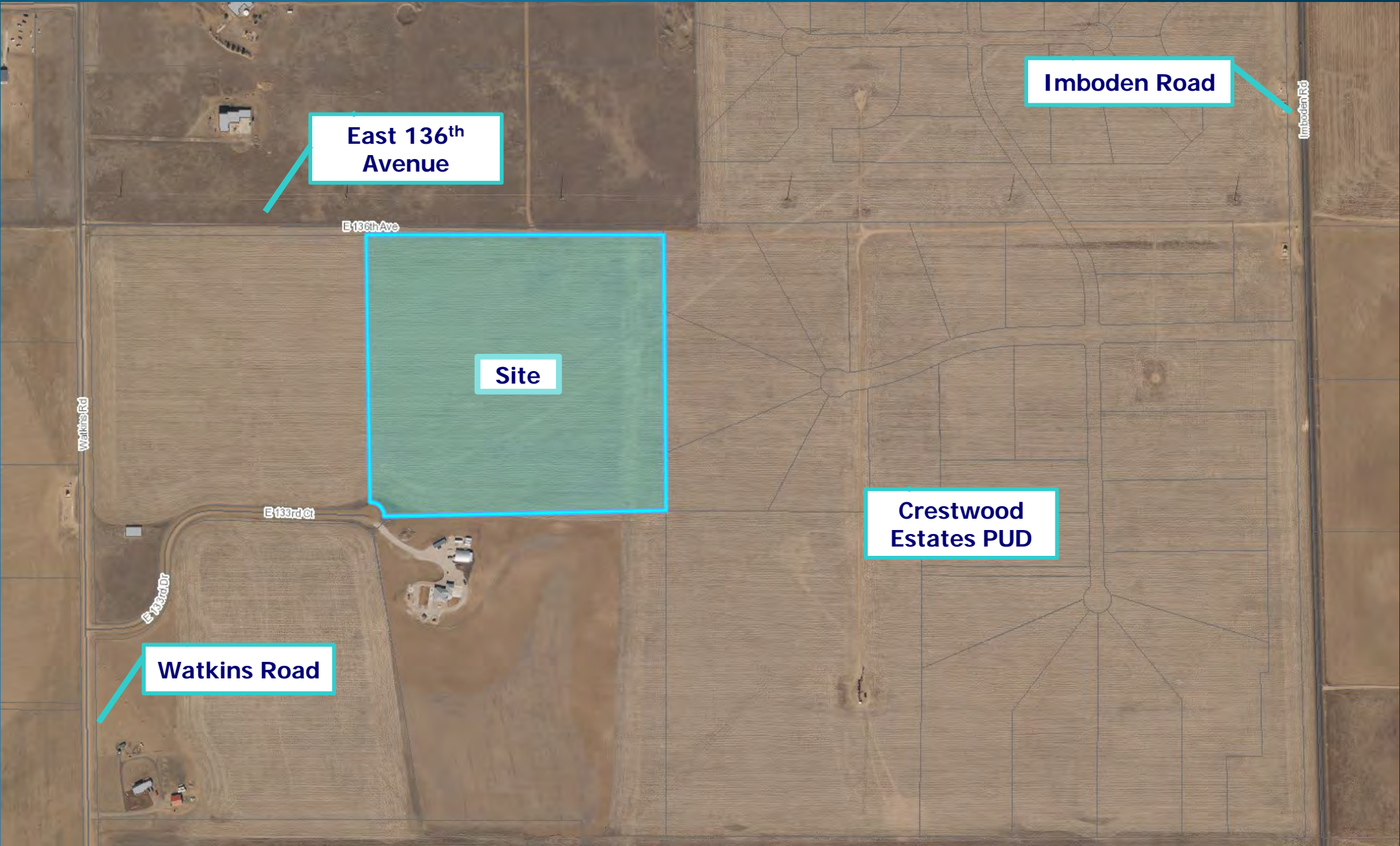
Existing Right-of-Way



Proposed New Right-of-Way



Aerial View



**East 136th
Avenue**

Imboden Road

Site

**Crestwood
Estates PUD**

Watkins Road

E 136th Ave

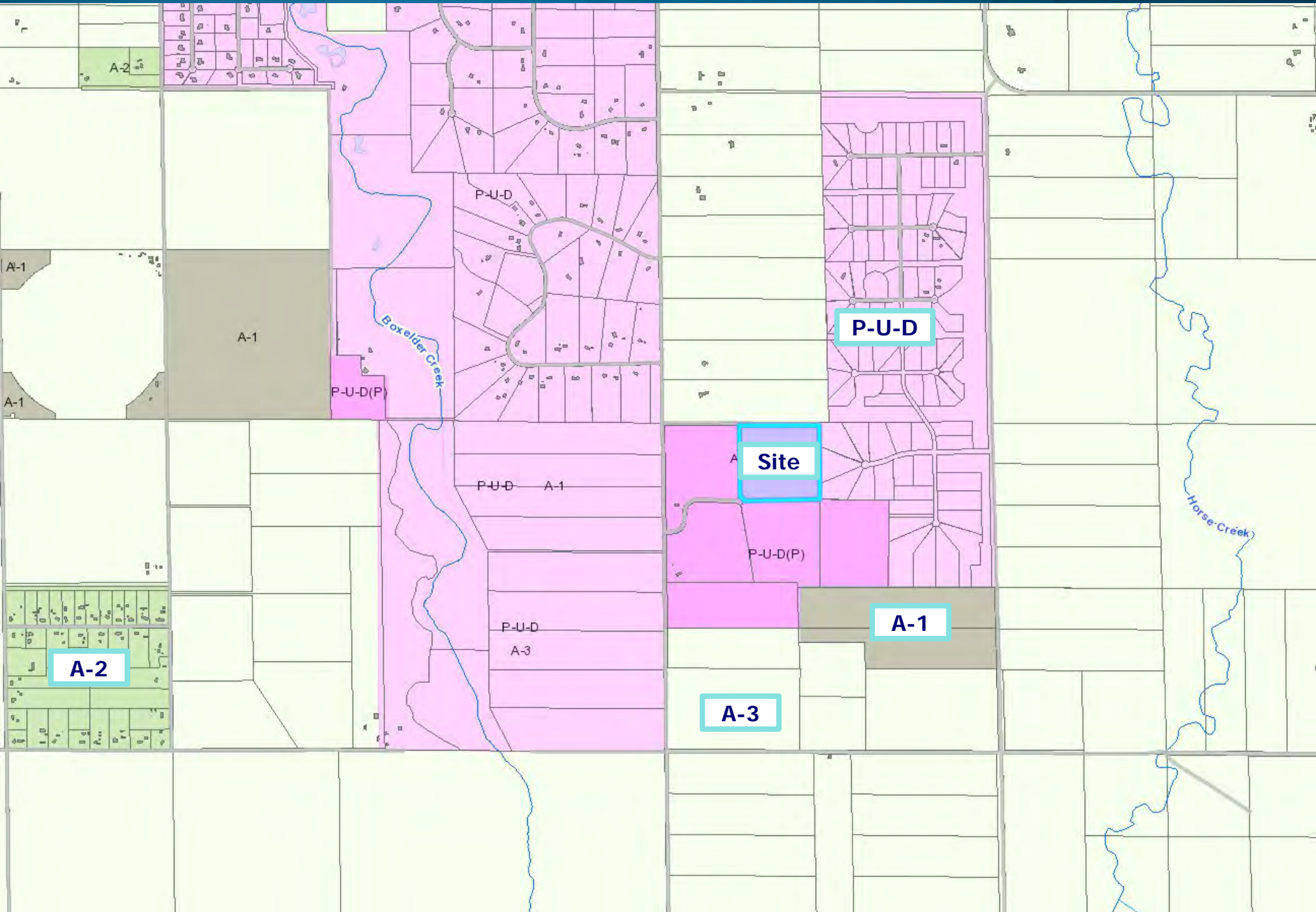
E 133rd Ct

Watkins Rd

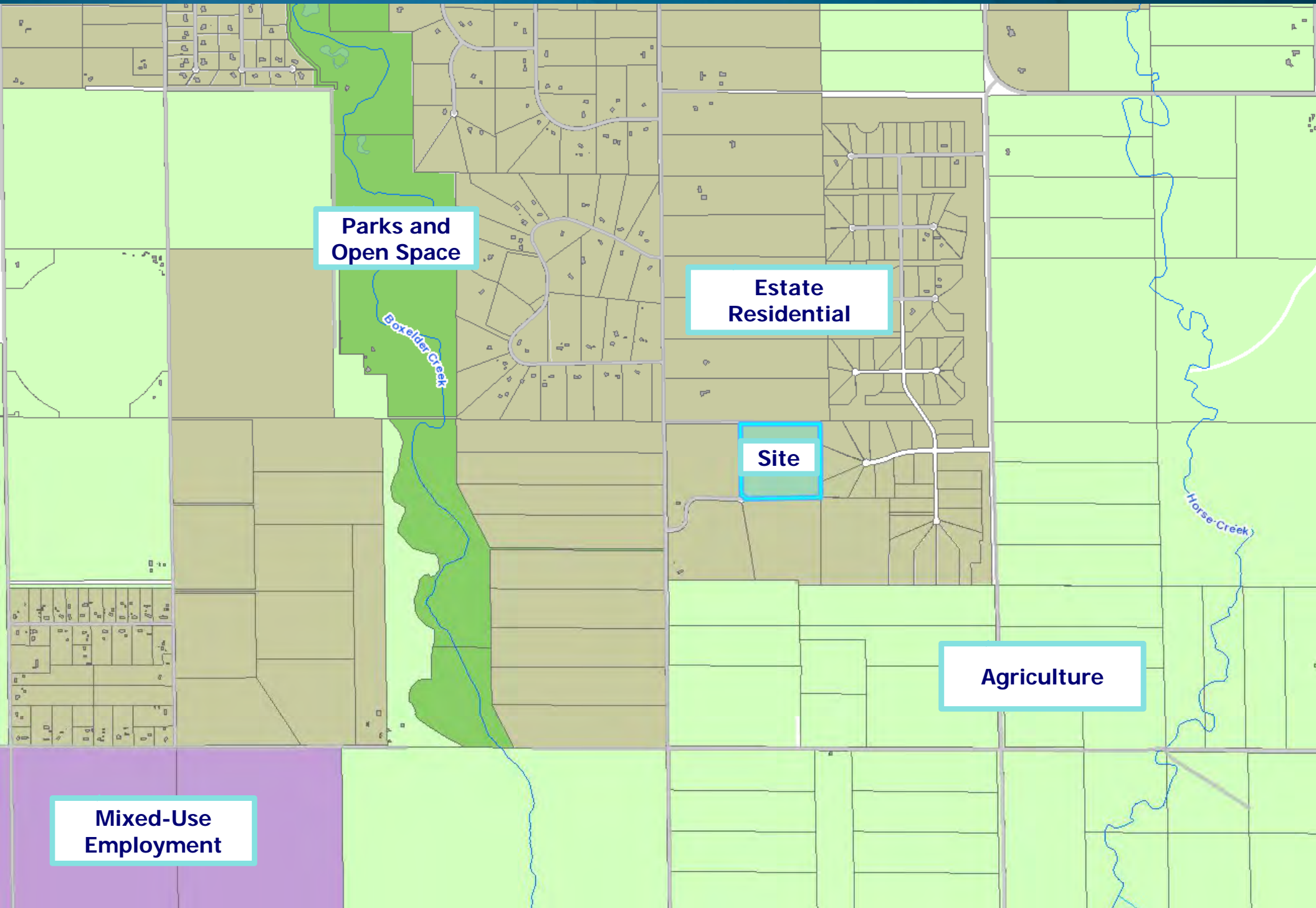
E 133rd Ct

Imboden Rd

Zoning: Agriculture-3 (A-3)



Future Land Use : Estate Residential

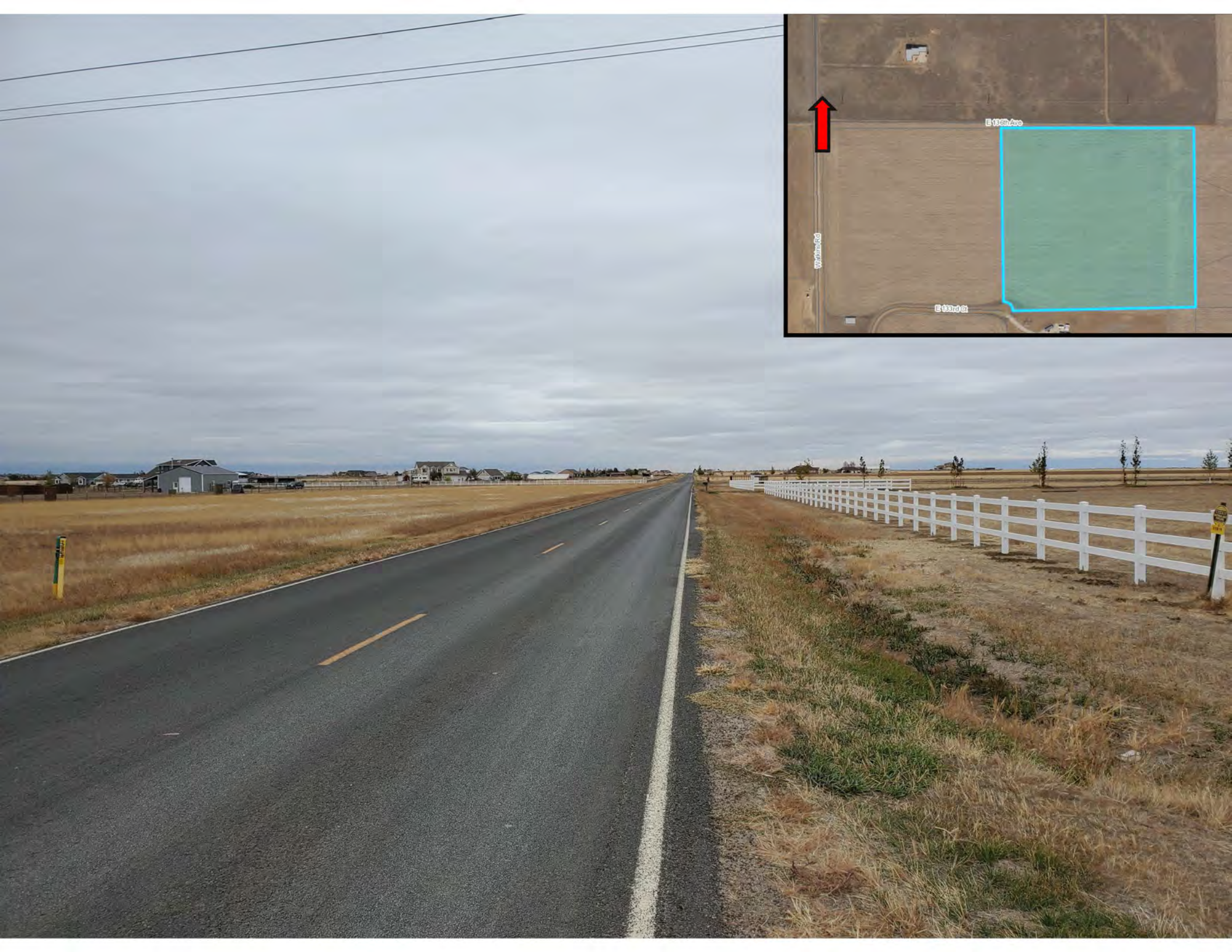








MENT PROPOSAL
DIVISION PLAN
[Illegible text]
[Illegible text]







Referral Period

# of Notices Sent	# of Comments Received
16	0

Property Owners and Residents within 1,000 feet of the site

- Xcel Energy responded with initial concern.
- Although not a referral, applicant received letter of consent from the KPK Company.
- Referral agencies responding without concerns included Brighton Fire Rescue District, Comcast, Regional Transportation District, Tri-County Health Department, and United Power.

Criteria of Approval

Section 2-02-18-08-05

1. Complies with standards and regulations.
2. Nonconforming lots are not created or nonconformity is not increased.
3. Complies with purpose and intent of subdivision regulations.
4. Approval will not harm public health, safety, and welfare.
5. Does not leave any land without an established public road or private access easement.
6. If the roadway is a state or federal highway, approval by the state transportation commission.

Recommendation

- Staff recommends Approval of the Roadway Vacation request with 6 Findings-of-Fact and 2 Conditions.

Findings of fact:

1. The roadway vacation complies with these standards and regulations and the original conditions of approval.
2. Nonconforming lots are not created, and in the case of nonconforming lots, the nonconformity is not increased.
3. The roadway vacation is in keeping with the purpose and intent of the subdivision regulations.
4. The approval will not adversely affect the public health, safety, and welfare.
5. The vacation does not leave any land adjoining the roadway without an established public road or private access easement connecting said land with another established public road.
6. If the roadway is a state or federal highway, the vacation has been approved by the state transportation commission.

Recommended Conditions of Approval:

1. Access to the oil and gas facility located north of the subject property must be provided and maintained as described by the Vacation Plat's Easement Preservation Note and the consent letter provided by the K.P. Kauffman Company.
2. Access to the oil and gas facility located north of the subject property must also be provided and maintained for the County's Oil and Gas Inspectors to inspect the facility.