LOVELAND UTILITIES COMMISSION

June 19, 2019 – 4:00pm
Service Center Willow Room – 200 N. Wilson Ave.

REGULAR MEETING AGENDA

CALL TO ORDER

NEW EMPLOYEE INTRODUCTIONS

Bill Crowell – Power Manager

APPROVAL OF MINUTES – 5/15/2019

CITIZENS REPORT (*See procedural instructions on the following page.)

INFORMATIONAL ITEMS

1. Financial Report Update – Jim Lees
2. Water Supply Update – Ryan Van Pelt

CONSENT AGENDA

3. Precast Concrete Contract – Yarani Vasquez

REGULAR AGENDA

4. Power Cost of Service Rate Study Preliminary Results – Jim Lees
5. Wireless Communications Code – Kim O'Field
6. Supplemental Budget and Appropriation for Boise Avenue Land Acquisition – Roger Berg
7. 2020 Proposed Budgets for Water, Wastewater and Power – Jim Lees

COMMISSION & COUNCIL REPORTS

DIRECTOR'S REPORT

ADJOURN

The password to the public access wireless network (colguest) is accesswifi

City of Loveland

* Citizens Report Procedures

Anyone in the audience may address the LUC on any topic relevant to the commission. If the topic is a Consent Agenda item, please ask for that item to be removed from the Consent Agenda; pulled items will be heard at the beginning of the Regular Agenda. If the topic is a Regular Agenda item, members of the public will be given an opportunity to speak to the item during the Regular Agenda portion of the meeting before the LUC acts upon it. If the topic is a Staff Report item, members of the public should address the LUC during this portion of the meeting; no public comment is accepted during the Staff Report portion of the meeting.

Anyone making comment during any portion of tonight's meeting should identify himself or herself and be recognized by the LUC chairman. Please do not interrupt other speakers. Side conversations should be moved outside the Service Center Board Room. Please limit comments to no more than three minutes.

Notice of Non-Discrimination

The City of Loveland is committed to providing an equal opportunity for services, programs and activities and does not discriminate on the basis of disability, race, age, color, national origin, religion, sexual orientation or gender. For more information on non-discrimination or for translation assistance, please contact the City's Title VI Coordinator at TitleSix@cityofloveland.org or 970-962-2372. The City will make reasonable accommodations for citizens in accordance with the Americans with Disabilities Act (ADA). For more information on ADA or accommodations, please contact the City's ADA Coordinator at adacoordinator@cityofloveland.org or 970-962-3319.

Notificación en Contra de la Discriminación

"La Ciudad de Loveland está comprometida a proporcionar igualdad de oportunidades para los servicios, programas y actividades y no discriminar en base a discapacidad, raza, edad, color, origen nacional, religión, orientación sexual o género. Para más información sobre la no discriminación o para asistencia en traducción, favor contacte al Coordinador Título VI de la Ciudad al TitleSix@cityofloveland.org o al 970-962-2372. La Ciudad realizará las acomodaciones razonables para los ciudadanos de acuerdo con la Ley de Discapacidades para americanos (ADA). Para más información sobre ADA o acomodaciones, favor contacte al Coordinador de ADA de la Ciudad en adacoordinator@cityofloveland.org o al 970-962-3319".

The password to the public access wireless network (colguest) is accesswifi

Commission Members Present: Dan Herlihey, Gary Hausman (Chair), Gene Packer, Larry Roos, John Butler, Randy Williams, Sean Cronin, Stephanie Fancher-English, Tom Vail (via phone)

Commission Members Absent:

Council Liaison: Steve Olson

City Staff Members Present: Brian Gandy, Christine Schraeder, Courtney Whittet, Derek Turner, Frank Lindauer, Jim Lees, Joe Bernosky, Kim O'Field, Larry Howard, Michelle Erickson, Nathan Alburn, Roger Berg, Ryan Van Pelt, Tanner Randall, Tracey Hewson, Yarani Vasquez

Guest Attendance: Dick Mallot, Jean Clevenger

CALL TO ORDER: Gary Hausman called the meeting to order at 4:00 pm.

APPROVAL OF MINUTES: Hausman asked for a motion to approve the minutes of the April 17, 2019 meeting.

> **Motion:** Dan Herlihey made the motion to approve the minutes as amended.
> **Second:** Gene Packer seconded the motion. The minutes were approved unanimously.

CITIZENS REPORT

Dick Mallot – Congratulations to the department on the presentation to City Council last night regarding self-generation rates. It looks like a split vote between Option 3 and Option 4. Bruce Croissant has pointed out that the billing system needs to reflect actual energy used and self-generated energy returned to the city.

INFORMATION ITEMS

Item 1: Water Supply Update – Jim Lees

This item summarizes the monthly and year-to date financials for April 2019.

> Information Item only. No action required

Item 2: Electric Legislative Update – Kim O'Field

This item and the attachment are intended to give a brief update on electric-related legislation at both the state and federal level. Loveland Water and Power works closely with Platte River Power Authority (PRPA) and its sister cities but relies primarily on the Colorado Association of Municipal Utilities (CAMU) for information on electric-related legislation.

> Information Item only. No action required.

Item 3: Water Legislative Update – Ryan Van Pelt

This item is intended to give a brief update on water-related legislation being contemplated by the Colorado General Assembly. Loveland Water and Power relies primarily on the Colorado Water Congress (CWC) for information on water-related legislation.

> Information Item only. No action required.

Item 4: Water Supply Update – Ryan Van Pelt

Raw water supply update.

> Information Item only. No action required.

REGULAR AGENDA

Item 5: Resolution #R-2-2019U adopting the Loveland Utilities Commission's Policy on the Criteria for Long-Term Augmentation Supply Agreements – Nathan Alburn

Section 13.04.241 of the Loveland Municipal Code authorizes the Loveland City Manager to execute leases of up to three years for the City's excess raw water, including leases of the City's excess fully reusable water that could be used as a replacement or augmentation supply to replace a water user's out-of-priority depletions. The City of Loveland periodically receives requests to provide, on a long-term basis, augmentation water to entities outside of the City (an "Augmentation Supply Agreement"). Any such agreement would need to be approved by resolution of the City Council, and which would require a review and recommendation by the LUC.

The City has a number of existing long-term agreements (greater than twenty years, or permanent), whereby the City is obligated to provide reusable water. Based on a recent request for an Augmentation Supply Agreement, the LUC in March and April 2019 discussed the parameters of a policy to assist Staff in handling these requests. Staff also presented an outline of augmentation policy conditions they recommended and asked for LUC's guidance moving forward. LUC provided valuable feedback. This feedback has been incorporated into a proposed resolution that would provide direction to all interested parties concerning the criteria that the LUC would apply in determining whether it would recommend the City Council's approval of a long-term Augmentation Supply Agreement.

> **Recommendation:** Motion to adopt Resolution R-02-2019U, a Resolution Adopting a Policy of the Loveland Utilities Commission Concerning the Criteria for Acceptable Long-Term Augmentation Supply Agreements
>
> Motion: Dan Herlihey made the motion to approve the item.
> Second: Sean Cronin seconded the motion. The item was approved 8-0 with 1 abstention.
>
> Stephanie Fancher-English recused herself from the vote as her family business currently has an augmentation supply agreement and could possibly be impacted in the future by this resolution.

Item 6: Water Quality Laboratory Construction Contract Award – Brian Gandy

The City currently has two (2) water quality labs that are State Certified by the Colorado Department of Public Health and Environment (CDPHE). The Wastewater Treatment Plant Lab (1,170 sf) was constructed in 1974, and the Water Treatment Plant Lab (125 sf) was constructed in 1981. The proposed project would construct a new laboratory building on the grounds of the wastewater treatment plant and will serve the functions of both water and wastewater laboratory needs.

> **Recommendation:** Adopt a motion to award the construction contract for the Water Quality Laboratory to Saunders Heath in the amount not to exceed of $4,310,492 in which the Bid Alternate is the basis of the award and authorize the City Manager to execute the contract on behalf of the City.
>
> Motion: Dan Herlihey made the motion to approve the item.
> Second: Randy Williams seconded the motion. The item was approved unanimously.

Item 7: Water Quality Laboratory Contract Amendment (#3) for additional Design Phase Services and Services during Construction – Brian Gandy

This item is for the approval of the contract amendment to HDR Engineering for additional design phase services and those selective services during the construction of the Water Quality Laboratory.

> **Recommendation:** Adopt a motion recommending that the LUC approve the amendment to the contract for additional design services and selective engineering services during construction with HDR to increase the not-to-exceed amount to $801,576 and authorize the City Manager to sign the change order on behalf of the City.

Motion: Randy Williams made the motion to approve the item.
Second: Gene Packer seconded the motion. The item was approved 8-0 with 1 abstention.

As an employee of HDR, Dan Herlihey recused himself from the vote.

STAFF REPORTS

Items 8 & 10 Removed from agenda prior to meeting.

Item 9: 2018 Water Loss Audit – Michelle Erickson

This item reviews the results of the 2018 Water Loss Audit and the progress made to improve the water tracking methods, and the actions taken or identified to better manage or reduce non-revenue water.

Staff Report only. No action required.

COMMISSION/COUNCIL REPORTS

Item 8: Commission/Council Reports
Discuss events that the Loveland Utility Commission Board members attended, special topics and any City Council items related to the Water and Power Department from the past month.

Dan Herlihey: Tri-City Water Board Meeting, excellent event and a compliment to the Keynote Speaker, the Colorado State Demographer.
Gene Packer: Parks and Recreation advised it looks like Lake Loveland will fill a little slower than expected
Gary Hausman:
John Butler:
Larry Roos:
Randy Williams: Regarding Raw Water, Randy expressed his concerned about a full acre-foot of water delivered, Larry Howard advised that our new modeling shows it lower than one, in the past it has been approximately .7
Sean Cronin:
Stephanie Fancher-English:
Tom Vail:

Council Report:

DIRECTOR'S REPORT

Item 9: Director's Report – Joe Bernosky

ADJOURN The meeting was adjourned at 5:44 pm. The next LUC Meeting will be June 19, 2019 at 4:00 pm.

Respectfully submitted,

Courtney Whittet
Recording Secretary
Loveland Utilities Commission
/s/ Gary Hausman, LUC Chairman

LOVELAND UTILITIES COMMISSION

AGENDA ITEM: 1
MEETING DATE: 6/19/2019
SUBMITTED BY: Jim Lees
STAFF TITLE: Utility Accounting Manager

ITEM TITLE:

Financial Report Update

DESCRIPTION:

This item summarizes the monthly and year-to date financials for May 2019.

SUMMARY:

The May 2019 financial reports are submitted for Commission review. The following table summarizes the sales and expense results for the month of May, and the May Year-To-Date results in comparison to the same periods from 2018. The summarized and detailed monthly financial statements that compare May Year-To-Date actuals to the 2019 budgeted figures are attached.

	May				May Year-To-Date			
	2019	2018	$ Ovr/(Und) vs. 2018	% Ovr/(Und) vs. 2018	2019	2018	$ Ovr/(Und) vs. 2018	% Ovr/(Und) vs. 2018
WATER								
Sales	$1,015,070	$1,153,854	($138,784)	-12.0%	$4,677,765	$4,683,828	($6,062)	-0.1%
Operating Expenses	$1,020,200	$1,042,333	($22,133)	-2.1%	$5,782,646	$5,749,983	$32,663	0.6%
Capital (Unrestricted)	$176,222	$102,038	$74,183	72.7%	$2,041,840	$392,450	$1,649,390	420.3%
WASTEWATER								
Sales	$1,049,508	$1,018,820	$30,688	3.0%	$5,342,497	$5,003,911	$338,586	6.8%
Operating Expenses	$896,340	$717,167	$179,173	25.0%	$3,991,397	$3,239,467	$751,930	23.2%
Capital (Unrestricted)	$1,769,716	$1,042,706	$727,010	69.7%	$5,248,729	$2,857,395	$2,391,334	83.7%
POWER								
Sales	$4,761,092	$4,831,733	($70,640)	-1.5%	$25,703,386	$25,338,129	$365,258	1.4%
Operating Expenses	$4,454,522	$4,621,661	($167,139)	-3.6%	$21,947,481	$21,978,562	($31,081)	-0.1%
Capital (Unrestricted)	$642,229	$777,613	($135,384)	-17.4%	$3,811,962	$3,765,800	$46,161	1.2%

RECOMMENDATION:

Staff item only. No action required.

ATTACHMENTS:

- Attachment A: City of Loveland Financial Statement-Raw Water
- Attachment B: City of Loveland Financial Statement-Water
- Attachment C: City of Loveland Financial Statement-Wastewater
- Attachment D: City of Loveland Financial Statement-Power

1

Attachment A

City of Loveland
Financial Statement-Raw Water
For Period Ending 05/31/2019

		TOTAL BUDGET FYE 12/31/2019	YTD ACTUAL	YTD BUDGET	OVER <UNDER>	VARIANCE
1	**REVENUES & SOURCES**					
2	High Use Surcharge	73,118	11,930	5,150	6,780	131.7%
3	Raw Water Development Fees/Cap Rec Surcharge	485,213	178,633	196,630	(17,997)	-9.2%
4	Cash-In-Lieu of Water Rights	227,167	3,212,082	94,655	3,117,427	3293.5%
5	Native Raw Water Storage Fees	196,876	159,450	61,000	98,450	161.4%
6	Proceeds on Loan	37,560,000	0	0	0	0.0%
7	Raw Water 3% Transfer In	531,164	140,333	147,506	(7,173)	-4.9%
8	Interest on Investments	300,965	196,066	125,400	70,666	56.4%
9	**TOTAL REVENUES & SOURCES**	**39,374,503**	**3,898,494**	**630,341**	**3,268,153**	**518.5%**
10	**OPERATING EXPENSES**					
11	Loan to Water	0	0	0	0	0.0%
12	Windy Gap Payments	7,100	7,044	2,960	4,084	138.0%
13	**TOTAL OPERATING EXPENSES**	**7,100**	**7,044**	**2,960**	**4,084**	**138.0%**
14	NET OPERATING REVENUE/(LOSS) (excl depr)	39,367,403	3,891,450	627,381	3,264,069	520.3%
15	RAW WATER CAPITAL EXPENDITURES	59,433,300	4,469,565	26,873,385	(22,403,820)	-83.4%
16	**BUDGET FUND BALANCE**	**6,590,587**	**26,251,219**	**410,480**	**25,840,739**	**6295.2%**

NOTE: YTD ACTUAL DOES NOT INCLUDE ENCUMBRANCES TOTALING: 164,877

1

Attachment B

City of Loveland
Financial Statement-Water
For Period Ending 05/31/2019

		TOTAL BUDGET FYE 12/31/2019	YTD ACTUAL	YTD BUDGET	OVER <UNDER>	VARIANCE
1	****UNRESTRICTED FUNDS****					
2	**REVENUES & SOURCES**					
3	Water Sales	17,705,446	4,677,765	4,916,882	(239,117)	-4.9%
4	Raw Water Transfer Out	(531,164)	(140,333)	(147,506)	7,173	-4.9%
5	Wholesale Sales	181,091	25,228	15,098	10,130	67.1%
6	Meter Sales	92,269	34,865	38,445	(3,580)	-9.3%
7	Interest on Investments	120,220	22,276	50,090	(27,814)	-55.5%
8	Other Revenue	1,117,884	155,142	702,239	(547,097)	-77.9%
9	Federal and State Grants	0	64,975	0	64,975	0.0%
10	Internal Loan Monies Received	0	0	0	0	0.0%
11	External Loan Monies Received	0	0	0	0	0.0%
12	**TOTAL REVENUES & SOURCES**	**18,685,746**	**4,839,918**	**5,575,248**	**(735,330)**	**-13.2%**
13	**OPERATING EXPENSES**					
14	Source of Supply	2,623,913	722,015	1,114,860	(392,845)	-35.2%
15	Treatment	3,850,767	1,201,748	1,597,760	(396,013)	-24.8%
16	Distribution Operation & Maintenance	4,004,549	1,206,460	1,788,708	(582,248)	-32.6%
17	Administration	2,764,753	290,011	1,708,681	(1,418,670)	-83.0%
18	Customer Relations	418,311	128,247	187,382	(59,135)	-31.6%
19	PILT	1,202,200	317,620	500,910	(183,290)	-36.6%
20	1% for Arts Transfer	76,788	19,137	65,818	(46,681)	-70.9%
21	Services Rendered-Other Departments	1,530,293	637,625	637,625	0	0.0%
22	Internal Loan Debt Expense	783,750	792,458	783,750	8,708	1.1%
23	External Loan Debt Expense	1,015,685	467,326	423,200	44,126	10.4%
24	**TOTAL OPERATING EXPENSES**	**18,271,009**	**5,782,646**	**8,808,694**	**(3,026,048)**	**-34.4%**
26	NET OPERATING REVENUE/(LOSS)(excl depr)	414,737	(942,728)	(3,233,446)	2,290,718	-70.8%
27	CAPITAL EXPENDITURES	5,557,708	2,041,840	3,796,483	(1,754,643)	-46.2%
28	REVENUES LESS OPER EXP LESS CAPITAL	(5,142,971)	(2,984,567)	(7,029,929)	4,045,362	-57.5%
30	ENDING CASH BALANCE (27% OF OPER EXP)	**3,951,317**	**4,948,482**	**1,902,386**	**3,046,096**	**160.1%**
31	WATER DEBT FUNDS ENDING CASH BALANCE		**698,387**			
32	MINIMUM BALANCE (18% OF OPER EXP)		3,288,782			
33	**OVER/(UNDER) MINIMUM BALANCE**		**1,659,700**			
34	****RESTRICTED FUNDS****					
35	**REVENUES & SOURCES**					
36	SIF Collections	5,732,613	1,054,931	2,309,500	(1,254,569)	-54.3%
37	SIF Interest Income	37,710	30,285	15,715	14,570	92.7%
38	SIF Federal and State Grants	0	64,975	0	64,975	0.0%
39	Internal Loan Monies Received	0	0	0	0	0.0%
40	**TOTAL SIF REVENUES & SOURCES**	**5,770,323**	**1,150,190**	**2,325,215**	**(1,175,025)**	**-50.5%**
41	SIF Capital Expenditures	5,874,420	643,239	3,326,105	(2,682,866)	100
42	1% for Arts Transfer	40,372	5,132	20,072	(14,940)	-74.4%
43	Legal Agreements & Shared Costs	352,305	17,885	157,250	(139,365)	-88.6%
44	**TOTAL SIF CAPITAL EXPENDITURES**	**6,267,097**	**666,256**	**3,503,427**	**(2,837,171)**	**-81.0%**
45	**SIF REVENUE LESS EXPENDITURES**	**(496,774)**	**483,934**	**(1,178,212)**	**1,662,146**	**-141.1%**
46	SIF ENDING CASH BALANCE	**2,709,857**	**3,757,501**	**1,952,612**	**1,804,889**	**92.4%**
47	**TOTAL ENDING CASH BALANCE**		**8,705,982**			
	NOTE: YTD ACTUAL DOES NOT INCLUDE ENCUMBRANCES TOTALING:		8,088,832			
48	Water Treated at WTP (in million gallons)		1,133			
49	Water Sold To Customers (in million gallons, includes Ranch Water & Hydrant Sales)	3,808	786	834	(48)	-5.7%

1

Attachment C

City of Loveland-LIVE
Financial Statement-Wastewater
For Period Ending 05/31/2019

		TOTAL BUDGET FYE 12/31/2019	YTD ACTUAL	YTD BUDGET	OVER <UNDER>	VARIANCE
1	****UNRESTRICTED FUNDS****					
2	**REVENUES & SOURCES**					
3	Sanitary Sewer Charges	13,584,364	5,342,497	5,390,444	(47,947)	-0.9%
4	High Strength Surcharge	427,327	117,130	143,385	(26,255)	-18.3%
5	Interest on Investments	38,862	93,753	16,195	77,558	478.9%
6	Other Revenue	1,124,075	9,441	217,579	(208,137)	-95.7%
7	Bond Proceeds	4,476,304	3,924,824	4,476,304	(551,480)	-12.3%
8	Federal Grants	0	0	0	0	0.0%
9	State Grants	0	0	0	0	0.0%
10	**TOTAL REVENUES & SOURCES**	**19,650,932**	**9,487,645**	**10,243,907**	**(756,262)**	**-7.4%**
11	**OPERATING EXPENSES**					
12	Treatment	4,204,696	1,666,743	1,638,202	28,541	1.7%
13	Collection System Maintenance	3,557,924	859,536	1,697,311	(837,775)	-49.4%
14	Administration	1,512,390	194,349	1,177,918	(983,570)	-83.5%
15	Customer Relations	76,327	23,812	36,926	(13,114)	-35.5%
16	PILT	980,820	382,174	408,675	(26,501)	-6.5%
17	1% for Arts Transfer	167,020	50,433	144,800	(94,367)	-65.2%
18	Services Rendered-Other Departments	928,606	386,920	386,920	0	0.0%
19	Debt Service	2,063,177	427,431	1,442,990	(1,015,559)	-70.4%
20	**TOTAL OPERATING EXPENSES**	**13,490,960**	**3,991,397**	**6,933,742**	**(2,942,345)**	**-42.4%**
21	NET OPERATING REVENUE/(LOSS)(excl depr)	6,159,972	5,496,248	3,310,165	2,186,083	66.0%
22	CAPITAL EXPENDITURES	13,894,631	5,248,729	11,426,151	(6,177,422)	-54.1%
23	REVENUES LESS OPER EXP LESS CAPITAL	(7,734,659)	247,518	(8,115,986)	8,363,505	-103.0%
24	ENDING BUDGET FUND BALANCE (90% OF OPER EXP)	**6,082,085**	**12,104,977**	**3,893,346**	**8,211,631**	**210.9%**
25	WASTEWATER DEBT FUNDS ENDING CASH BALANCE		891,722			
26	MINIMUM BALANCE (18% OF OPER EXP)		2,428,373			
27	OVER/(UNDER) MINIMUM BALANCE		**9,676,604**			
28	****RESTRICTED FUNDS****					
29	**REVENUES & SOURCES**					
30	SIF Collections	2,774,324	608,897	599,980	8,917	1.5%
31	SIF Interest Income	2,640	62,437	1,100	61,337	5576.1%
32	SIF Bond Proceeds	1,837,089	2,405,537	1,837,089	568,448	30.9%
33	**TOTAL SIF REVENUES & SOURCES**	**4,614,053**	**3,076,871**	**2,438,169**	**638,702**	**26.2%**
34	SIF Capital Expenditures	4,677,835	632,982	3,824,715	(3,191,733)	-83.5%
35	1% for Arts Transfer	92,384	5,048	85,094	(80,046)	-94.1%
36	Debt Service	591,393	261,974	246,410	15,564	6.3%
37	**TOTAL SIF CAPITAL EXPENDITURES**	**5,361,612**	**900,003**	**4,156,219**	**(3,256,216)**	**-78.3%**
38	**SIF REVENUE LESS EXPENDITURES**	(747,559)	2,176,868	(1,718,050)	3,894,918	-226.7%
39	SIF ENDING BUDGET FUND BALANCE	**3,431,413**	**4,556,869**	**2,461,671**	**2,095,198**	**85.1%**
40	**TOTAL ENDING CASH BALANCE**		**16,661,846**			
	NOTE: YTD ACTUAL DOES NOT INCLUDE ENCUMBRANCES TOTALING		7,085,094			
	Wastewater Treated at WWTP (in million gallons)	N/A	848	N/A		
	Wastewater Billed To Customers (in million gallons)	1,778	670	687	(17)	-2.4%

1

Attachment D

City of Loveland
Financial Statement-Power
For Period Ending 05/31/2019

		TOTAL BUDGET		YTD ACTUAL	YTD BUDGET	OVER <UNDER>	VARIANCE
	****UNRESTRICTED FUNDS****						
1	REVENUES & SOURCES:						
2	Electric revenues	$68,256,630		$25,703,386	$26,134,280	($430,894)	-1.6%
3	Wheeling charges	$265,000		$92,861	$110,417	($17,556)	-15.9%
4	Interest on investments	$397,580		$96,961	$165,658	($68,698)	-41.5%
5	Aid-to-construction deposits	$1,610,000		$393,072	$670,833	($277,762)	-41.4%
6	Customer deposit-services	$310,000		$35,507	$129,167	($93,659)	-72.5%
7	Late Payment Penalty Fees	$450,000		$187,065	$187,500	($435)	-0.2%
8	Connect Fees	$170,000		$58,969	$70,833	($11,865)	-16.8%
9	Services rendered to other depts.	$67,500		$0	$28,125	($28,125)	-100.0%
10	Other revenues	$386,572		$242,816	$161,072	$81,745	50.8%
11	Federal Grants	$0		$0	$0	$0	0.0%
12	State Grants	$0		$0	$0	$0	0.0%
13	Year-end cash adjustments	$0		$0	$0	$0	0.0%
14	**TOTAL REVENUES & SOURCES**	**$71,913,282**		**$26,810,637**	**$27,657,885**	**($847,248)**	**-3.1%**
15	OPERATING EXPENSES:						
16	Hydro oper. & maint.	$5,128,795		$107,407	$2,169,875	($2,062,468)	-95.1%
17	Solar oper.& maint.	$90,000		$0	$38,077	($38,077)	-100.0%
18	Purchased power	$44,761,779		$16,282,645	$16,518,502	($235,857)	-1.4%
19	Distribution oper. & maint.	$5,831,634		$1,739,465	$2,467,230	($727,764)	-29.5%
21	Customer Relations	$1,652,984		$308,812	$699,339	($390,527)	-55.8%
22	Administration	$3,581,360		$505,433	$1,515,191	($1,009,758)	-66.6%
23	Payment in-lieu-of taxes	$4,777,960		$1,780,168	$1,911,184	($131,016)	-6.9%
24	1% for Arts Transfer	$105,703		$21,925	$42,281	($20,356)	-48.1%
25	Services rendered-other depts.	$2,883,905		$1,201,625	$1,201,627	($2)	0.0%
26	**TOTAL OPERATING EXPENSES (excl depn)**	**$68,814,120**		**$21,947,481**	**$26,563,306**	**($4,615,825)**	**-17.4%**
27	NET OPERATING REVENUE/(LOSS) (excl depn)	$3,099,162		$4,863,157	$1,094,579	$3,768,578	
28	CAPITAL EXPENDITURES:						
29	General Plant/Other Generation & Distribution	$10,452,835		$3,047,978	$4,164,907	($1,116,930)	-26.8%
30	Aid-to-construction	$1,530,000		$679,889	$889,615	($209,726)	-23.6%
31	Service installations	$310,000		$84,095	$131,154	($47,059)	-35.9%
32	**TOTAL CAPITAL EXPENDITURES**	**$12,292,835**		**$3,811,962**	**$5,185,677**	**($1,373,715)**	**-26.5%**
33	**REVENUES LESS OPER EXP LESS CAPITAL**	($9,193,673)		$1,051,195	($4,091,098)	$5,142,293	
34	**ENDING BUDGET FUND BALANCE (16% of Oper Ex**	**$10,870,411**		**$11,183,116**	**$12,446,102**	**($1,262,986)**	**-10.1%**
35	MINIMUM BAL. (18% of OPER EXP)			$12,386,542			
36	OVER/(UNDER) MINIMUM BALANCE			($1,203,426)			
37	****RESTRICTED FUNDS****						
38	PIF Collections	$2,743,740		$1,153,153	$1,143,225	$9,928	0.9%
39	PIF Interest Income	$37,450		$73,305	$15,604	$57,700	369.8%
40	Water Loan Payback	$783,750		$792,458	$783,750	$8,708	1.1%
41	Federal Grants	$0		$0	$0	$0	0.0%
42	State Grants	$0		$0	$0	$0	0.0%
43	**TOTAL REVENUES**	**$3,564,940**		**$2,018,916**	**$1,942,579**	**$76,337**	**3.9%**
44	PIF Feeders	$5,835,511		$1,268	$2,468,870	($2,467,602)	-99.9%
45	PIF Substations & Solar	$2,464,418		$520,317	$1,026,841	($506,524)	-49.3%
46	**TOTAL EXPENDITURES**	**$8,299,929**		**$521,585**	**$3,495,711**	**($2,974,126)**	**-85.1%**
47	**PIF REVENUES LESS EXPENDITURES**	($4,734,989)		$1,497,331	($1,553,132)	$3,050,463	
48	**ENDING PIF BUDGET FUND BALANCE**	**$2,978,132**		**$9,302,983**	**$6,938,241**	**$2,364,742**	**34.1%**
49	**TOTAL ENDING CASH BALANCE**			**$20,486,098**			

NOTE: YTD ACTUAL does NOT include encumbrances totalling $4,517,469

50	Energy Purchased (in million kWh) from PRPA	739		286	289	(3)	-0.9%
51	Energy Sold to Customers (in million kWh)	716		274	284	(9)	-3.3%

1

LOVELAND UTILITIES COMMISSION

AGENDA ITEM: 2
MEETING DATE: 6/19/2019
SUBMITTED BY: Ryan Van Pelt
STAFF TITLE: Civil Engineer II

ITEM TITLE:

Water Supply Update

DESCRIPTION:

Raw water supply update.

SUMMARY:

United States Drought Monitor Map of Colorado, as of June 4, 2019 (Attachment A):

- The South Platte Basin has favorable conditions and does not have a drought designation.
- The drought conditions in southwestern Colorado have improved significantly with no remaining areas designated as being in a **Drought**.

NRCS Colorado SNOTEL Snow Water Equivalent (SWE) Map, as of June 11, 2019 (Attachment B):

- Indicates the South Platte Basin is at **1,006% of Median** SWE (1981-2010)
- Overall Statewide, we are currently at **735% of Median** SWE
- For reference, and to illustrate the impact of our late spring season on the analyses, we have included an excerpt from the Colorado SNOTEL Snowpack Update Report for the South Platte River Basin (Attachment C).

Locations of Bear Lake & Lake Irene SNOTEL Sites:

- Bear Lake SNOTEL site is in the upper Big Thompson River Basin
- Lake Irene SNOTEL site is in the upper Colorado River Basin near the Continental Divide and is indicative of conditions in the upper Big Thompson basin.

NRCS SNOTEL Data Table for the South Platte River Basin as of June 11, 2019 (Attachment C):

- Bear Lake SWE at 0.0 inches
- Lake Irene SWE at 10.2 inches, or 41% of Median

Bear Lake NRCS SNOTEL Site Graph (Attachment D):

- First graph shows the SWE from October 2019 through June 11, 2019 (purple) compared to 2002, 2016, 2017, 2018, and the 30-year Median (1981-2010).
- Second graph shows the entire snow accumulation and melt-off period from October through mid-June.
- Currently, the SWE is above the 30-year median and closely aligned with the 2017 SWE.

RECOMMENDATION:

Information item only. No action required.

ATTACHMENTS:

- Attachment A – U.S. Drought Monitor Map of Colorado
- Attachment B – Colorado SNOTEL SWE Update Map
- Attachment C – Colorado SNOTEL Update Table for the South Platte River Basin
- Attachment D – Snow-Water Equivalent Graphs at Bear Lake

2

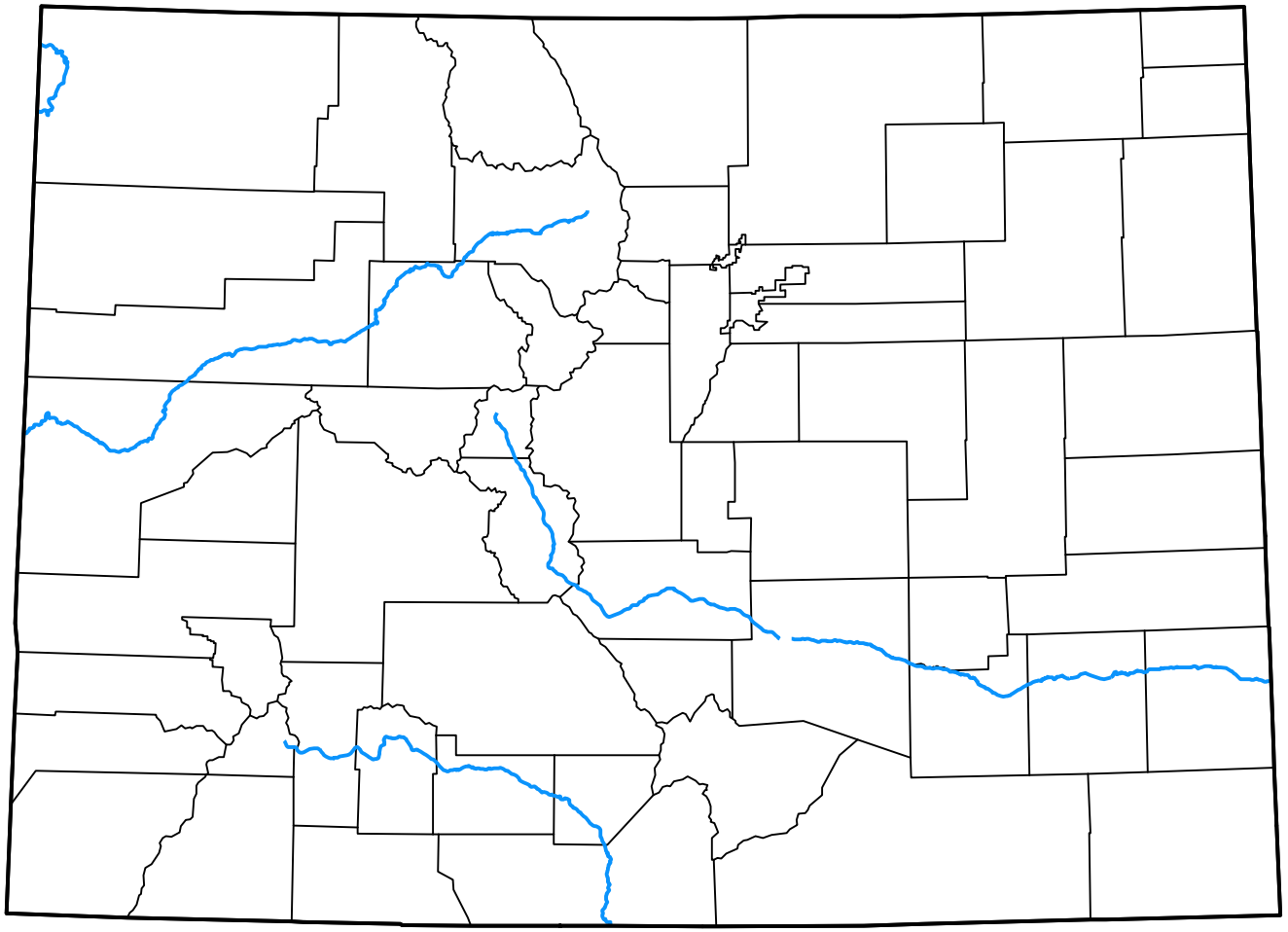
U.S. Drought Monitor

Colorado

June 4, 2019

(Released Thursday, Jun. 6, 2019)

Valid 8 a.m. EDT



19

2

Attachment A

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

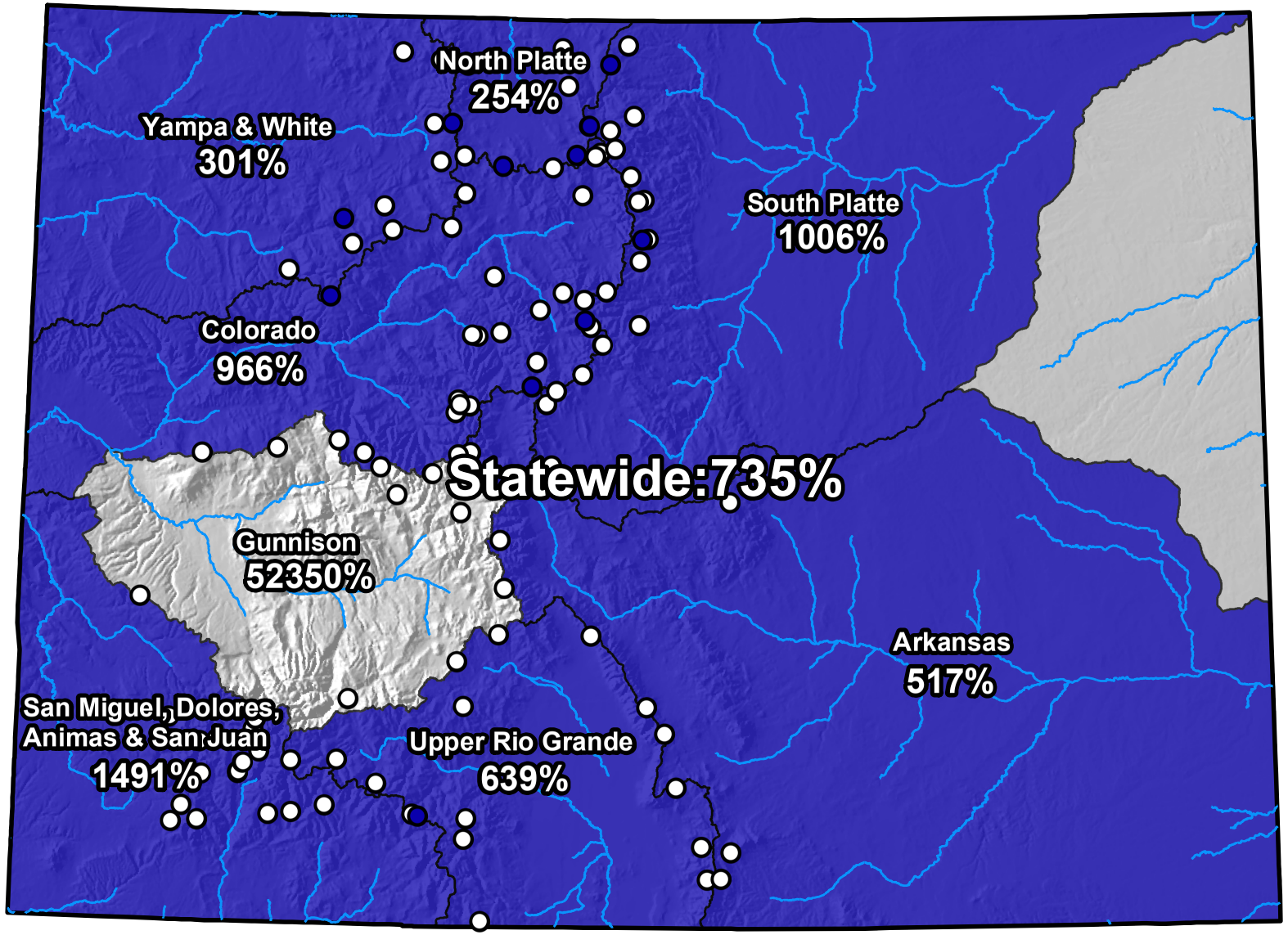
David Simeral
Western Regional Climate Center

droughtmonitor.unl.edu

2

Colorado SNOTEL Snow Water Equivalent (SWE) Update Map with Site Data

Current as of Jun 11, 2019



SWE

Percent of Median

- Missing or Invalid
- < 50
- 50 - 69
- 70 - 89
- 90 - 109
- 110 - 129
- 130 - 149
- >= 150
- SNOTEL

Attachment B

21

2

N

0 25 50 100 150 200 Miles

USDA United States Department of Agriculture

Natural Resources Conservation Service

Attachment C

COLORADO SNOTEL SNOWPACK UPDATE REPORT
South Platte River Basin

(Data based on the first reading of the day (typically 00:00) for Tuesday, June 11, 2019)

Basin Site Name	Elevation (ft)	Snow Water Equivalent				Percent of	
		Current (in)	Today's Median (in)	Median Peak (in)	Median Peak Date	Today's Median	Median Peak
Bear Lake	9,500	0.0	0.0	18.6	30-Apr	*	0*
Berthoud Summit	11,300	9.4	0.0	21.8	29-Apr	*	43*
Black Mountain	8,920	0.0	N/A	N/A	N/A	*	*
Buckskin Joe	11,150	11.7	0.0$_C$	11.8$_C$	26-Apr	*	99*
Copeland Lake	8,600	0.1	0.0	4.6	3-Mar	*	2*
Deadman Hill	10,220	7.4	0.3	19.2	3-May	2467*	39*
Echo Lake	10,600	0.2	0.0$_C$	8.5$_C$	26-Apr	*	2*
Hoosier Pass	11,400	14.5	0.0	16.0	25-Apr	*	91*
Hourglass Lake	9,380	0.0	N/A	N/A	N/A	*	*
Jackwhacker Gulch	10,960	8.8	0.0$_C$	14.1$_C$	26-Apr	*	62*
Joe Wright	10,120	13.9	7.2	23.5	28-Apr	193	59
Lake Eldora	9,700	0.0	0.0	12.2	6-Apr	*	0*
Lake Irene	10,700	10.2	0.0	24.9	7-Apr	*	41*
Long Draw Res.	9,980	1.1	N/A	N/A	N/A	*	*
Loveland Basin	11,400	18.6	0.6$_C$	23.2$_C$	6-May	3100*	80*
Michigan Creek	10,600	3.2	0.0$_C$	12.4$_C$	26-Apr	*	26*
Niwot	9,910	0.1	0.0	12.6	28-Apr	*	1*
Rough And Tumble	10,360	0.0	0.0$_C$	7.7$_C$	26-Apr	*	0*
Sawtooth	9,620	17.5	N/A	N/A	N/A	*	*
University Camp	10,300	9.5	3.5	19.0	2-May	271	50
Wild Basin	9,560	0.1	N/A	N/A	N/A	*	*
Willow Park	10,700	9.1	0.0	19.2	26-Apr	*	47*
Basin Index (%)						**1006***	**43***

Notes:

Based on Mountain Data from NRCS SNOTEL Sites.

Provisional data, subject to revision.

The Snow Water Equivalent (SWE) PERCENT OF Median represents the current SWE found at selected SNOTEL sites in or near the basin compared to the Median value for those sites on this day.

The SWE PERCENT OF MAXIMUM Median represents the current SWE found at selected SNOTEL sites in or near the basin compared to the maximum Median value for those sites.

The basin index is calculated as the sum of the valid current values divided by the sum of the corresponding medians (for SWE) or averages (for precipitation) and the resulting fraction multiplied by 100.

N/A = Not available.

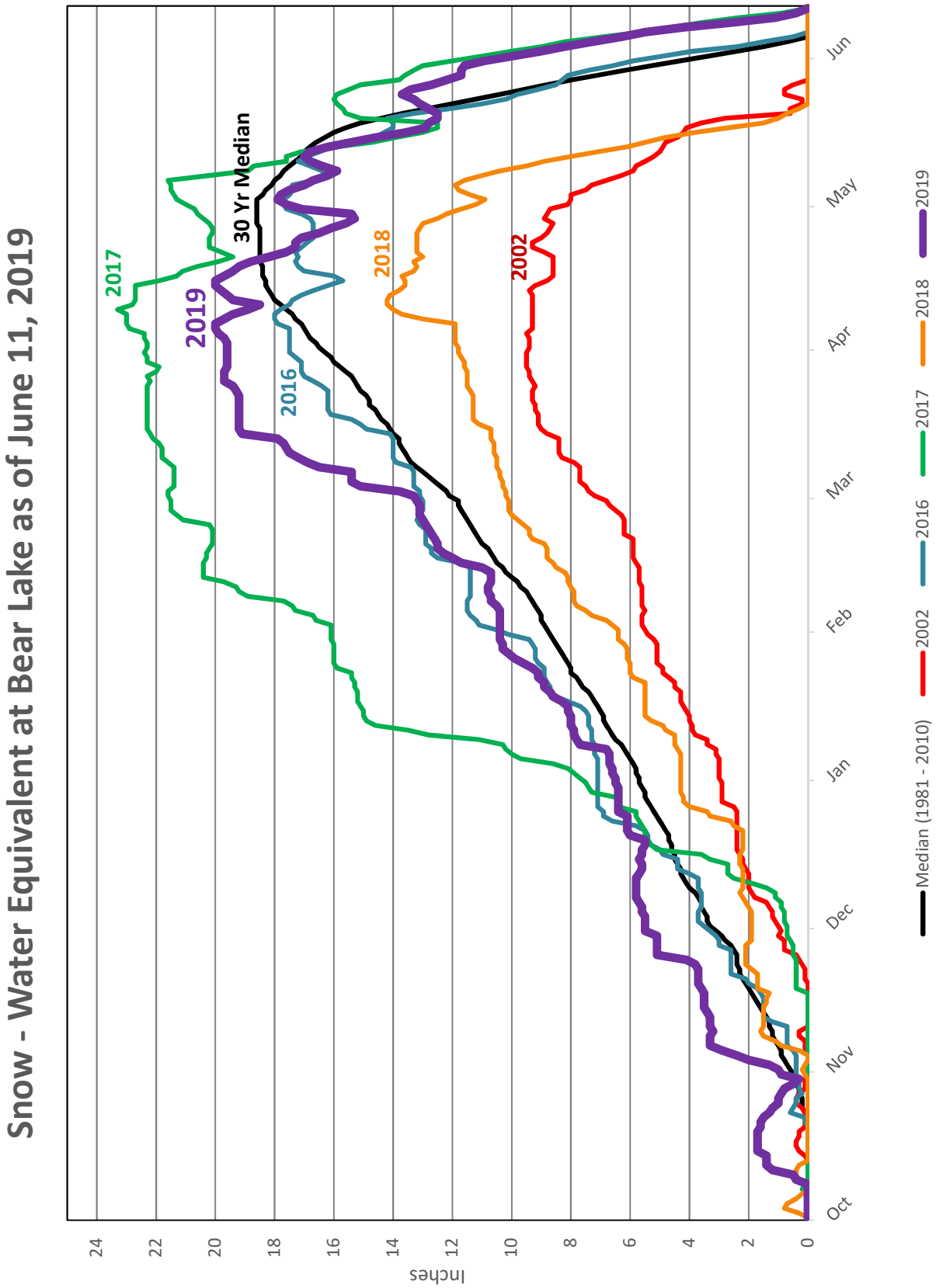
C = Conditional only 10-19 years of data available.

* = Analysis may not provide a valid measure of conditions.

* Site - Either: (a) the current value is missing; (b) the median or average for the day is not available or is zero; or (c) for snow water equivalent the median for the day is less than 10% of the maximum median value for the year.

* Basin - More than half of the sites within the basin are flagged with * preventing the calculation of a meaningful basin index.

Attachment D



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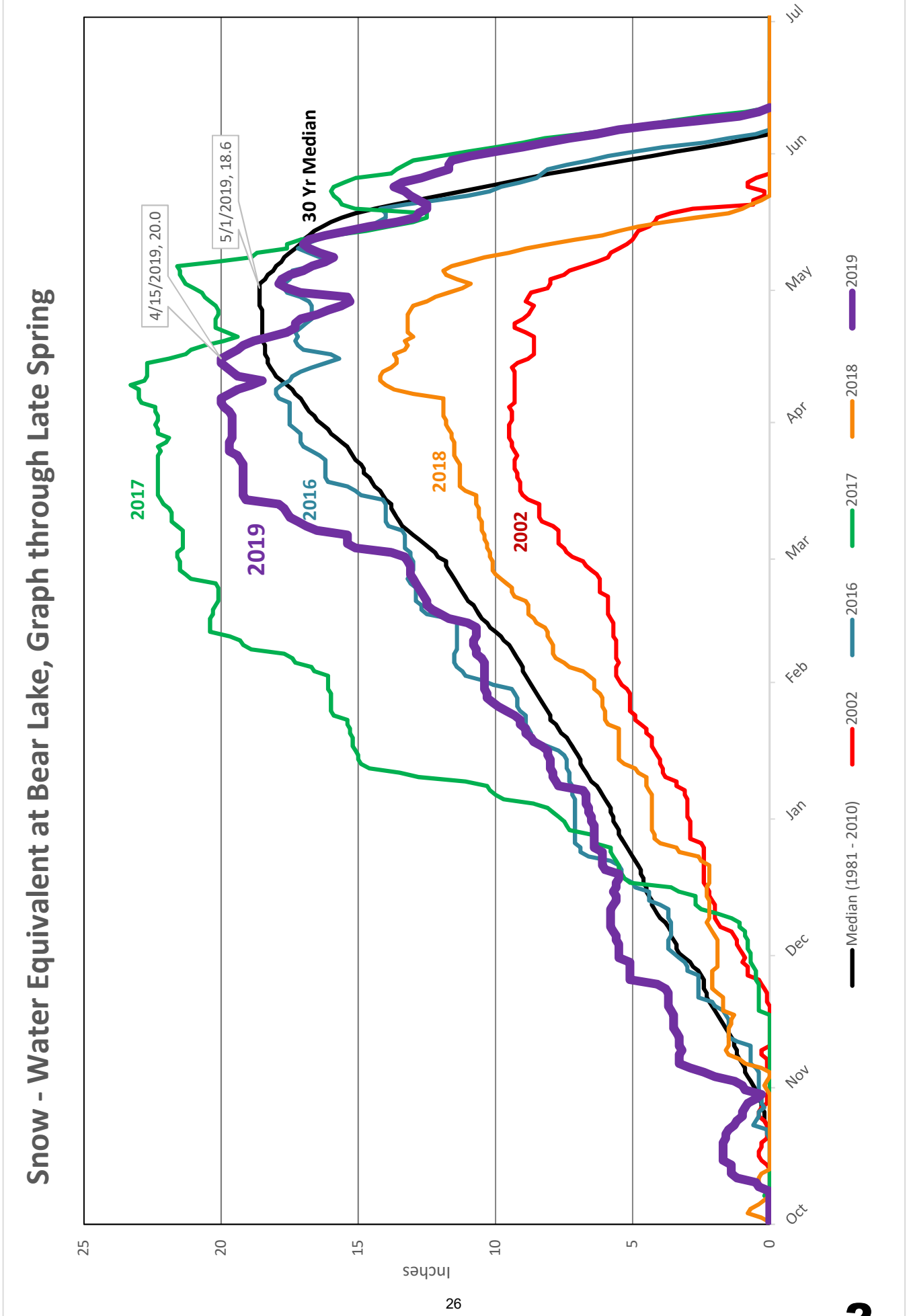

Snow - Water Equivalent at Bear Lake, Graph through Late Spring
Inches
25
20
15
10
5
0
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
30 Yr Median
4/15/2019, 20.0
5/1/2019, 18.6
2017
2019
2016
2018
2002
Median (1981 - 2010)
2002
2016
2017
2018
2019

2

LOVELAND UTILITIES COMMISSION

AGENDA ITEM: 3
MEETING DATE: 6/19/2019
SUBMITTED BY: Yarani Vazquez
STAFF TITLE: Electrical Engineer

ITEM TITLE:

Contract Bid Award for Concrete Vaults, Pads and Foundations

DESCRIPTION:

Award a one year contract to Oldcastle Precast and Vaughn Concrete Products for electric utilities precast concrete needs.

SUMMARY:

After completing the evaluation of all bids for the Concrete Vaults, Pads and Foundations, City Staff seeks to award a contract to Oldcastle Precast in the amount of $441,335.00 and Vaughn Concrete Products in the amount of $60,185.00. The lowest bidder was Panhandle Concrete Products, but due to the nature of their delivery terms they were not selected.

Per Municipal Code 3.12.060A and 3.12.060B, the LUC must approve Water and Power contracts above $500,000 or any change order that causes a contract to equal or exceed $500,000 and which, when combined with all previous change orders, equals or exceeds 20% of the original contract amount.

RECOMMENDATION:

Adopt a motion recommending that LUC award the contract for Concrete Vaults, Pads and Foundations to Oldcastle Precast in an amount not to exceed $441,335.00 and Vaughn Concrete Products in an amount to not exceed $60,185.00 and authorize the City Manager to execute the contract on behalf of the City, following consultation with the City Attorney, and to modify the contract in form or substance as deemed necessary to protect the interests of the City.

ATTACHMENTS:

- Attachment A: Bid Valuation

3

City of Loveland
Purchasing Quote Bid Tabulation

AWARD IN YELLOW

Precast Concrete Bid # 2019-41			Vendor	Vendor	Vendor
Loveland Water & Power 2019		25 April	Oldcastle Precast	Panhandle Concrete Products	Vaughn Concrete Products
Item Description	City stock #	Estimated Qty.	Unit Price	Unit Price	Unit Price
5' X 5' VAULT W/LID	237-00245	12	**$3,320.00**	$2,997.00	$3,495.00
5' X 8' VAULT W/LID	237-00250	42	**$4,960.00**	$4,986.00	$5,040.00
7' X 14' VAULT W/LID (HATCH ONLY)	237-00261	6	**$9,350.00**	$9,546.00	$10,625.00
7' X 14' VAULT W/LID (SINGLE SWITCHGEAR)	237-00261	6	**$9,350.00**	$9,746.00	$11,125.00
8' X 19' VAULT W/ LID (SINGLE SWITCHGEAR)	237-00346	3	**$16,195.00**	$15,486.00	$17,965.00
8' X 19' VAULT W/ LID (DOUBLE SWITCHGEAR)	237-00347	2	**$16,195.00**	$15,486.00	$18,465.00
72" X 76" 3-PH TRANSFORMER PAD	108-00344	30	$560.00	$613.00	**$398.00**
80" X 90" 3-PH TRANSFORMER PAD	108-00345	20	$750.00	$811.00	**$575.00**
STREET LIGHT FOUNDATION 18" DIA. X 4'	261-00718	30	$550.00	$328.00	**$345.00**
STREET LIGHT FOUNDATION 24" DIA. X 4'	261-00717	30	$560.00	$413.00	**$363.00**
STREET LIGHT FOUNDATION 24" DIA. X 6'	261-00716	35	$670.00	$568.00	**$443.00**
Total Unit Price			$62,460.00	$60,980.00	$68,839.00
Total Extended Price			$529,885.00	$515,278.00	$535,130.00
Notes			Delivery and unload charge included	Delivery and unload included - requesting help hook and unhook equipment. Only full truck load. **ALL OR NONE**	Delivery and unload fee added to unit price. Transformer pad and street light foundation to be unloaded by City of Loveland

Attachment A

3

LOVELAND UTILITIES COMMISSION

AGENDA ITEM: 4
MEETING DATE: 6/19/2019
SUBMITTED BY: Jim Lees
STAFF TITLE: Utility Accounting Manager

ITEM TITLE:

Power Cost-of-Service Rate Study Preliminary Results

DESCRIPTION:

The purpose of this item is to provide the LUC with an overview of the Power cost-of-service rate study and get recommendations from the Commission on rate design.

SUMMARY:

As a step in our 2019 cost-of-service rate study for Power, Staff will be seeking direction from the LUC at this month's meeting on key decisions that will need to be made with regard to rate design during the study. The rate study is now underway with our consultant, Utility Financial Solutions (UFS). A Kickoff Meeting was held on April 26, 2019 and great volumes of data have made their way to UFS. Staff really appreciated the attendance and participation of LUC Board Member John Butler at the Kickoff Meeting. Mark Beauchamp, President of UFS, will be with us today to give us an overview of what we will be looking to accomplish in the study and will lead us through the feedback process.
The preliminary results from the study are still being developed at the time of this writing, but will be ready for presentation to the LUC at the meeting.

The key components that Staff is looking to the Commission to weigh in on is:

1) Whether to increase the Monthly Base Charge for each customer class to reflect cost of service
2) Whether to implement full cost-of-service results for each customer class, regardless of what those rate increases or decreases might be, or put some limitations on how much each customer class will be adjusted for 2020
3) Whether to implement full cost-of-service results for each customer class, for the differential between Summer and non-Summer seasons, regardless of what those rate increases or decreases might be, or put some limitations on how much each customer class will be adjusted for 2020

In the last cost-of-service rate study for Power in 2016, the overall rate increase necessary for 2017 was 6.50%. The LUC made two key decisions at that time: 1) to implement the full 6.50% increase in 2017; and 2) to structure it so that the rate increases for each customer class would be no more than 6.50% + or – 1%. So, no increase for any customer class would be higher than 7.50%, and no increase would be lower than 5.50%.

The primary pro and con of implementing full cost-of-service results are as follows:

PRO:

- Each customer class would be paying just what it should – there would be no subsidizing of costs between classes

CON:

- There is a potential, depending on the outcome of the cost-of-service analysis, that some classes could have large adjustments to their current rates

Staff recommends that implementing full cost-of-service result at least be explored for 2020, depending on the necessary rate increases for each customer class.

Mark will also be discussing trends and developments he is seeing in the electric utility industry.

RECOMMENDATION:

Provide direction on rate design for the three key study components outlined earlier.

LOVELAND UTILITIES COMMISSION

AGENDA ITEM: 5
MEETING DATE: 6/19/2019
SUBMITTED BY: Kim O'Field
STAFF TITLE: Technical Specialist

ITEM TITLE:

City of Loveland Wireless Communications Code

DESCRIPTION:

This item is seeking approval and recommendation to City Council of approval of the City of Loveland Wireless Communications Code located in Title 14 of the Loveland Municipal Code, and associated amendments to the Unified Development Code and Title 13 of the Loveland Municipal Code regarding pole attachments.

SUMMARY:

The Wireless Communications Code combines provisions from the Unified Development Code, Utilities – Pole Attachments, and new provision regarding wireless communications facilities in the public rights-of-way. This code adoption is in response to state legislation and FCC regulations regarding small cell wireless facilities. The City is now required to permit small cell wireless facilities to be deployed in the public rights-of-way, with limited regulation by the City. The purpose of the new code is to regulate such wireless communications facilities to the extent the City is permitted. Specifically, the code requires that providers comply with the City's design standards, sign a master license agreement, and comply with other requirements to protect public health, safety and welfare.

RECOMMENDATION:

Motion to approve and recommend that City Council adopt the Wireless Communications Code in Title 14 of the Loveland Municipal Code and associated revisions to the Unified Development Code in Title 18 and pole attachment provisions in Title 13 of the Loveland Municipal Code.

ATTACHMENTS:

- Attachment A: Powerpoint – Wireless Communications Code
- Attachment B: Draft Wireless Communications Code
- Attachment C: Draft redlines to Unified Development Code
- Attachment D: Draft redlines to Title 13.12.200

5

Attachment A

BACKGROUND

- Why are we here?
  - **Colorado State Law** – HB 17-1193 (Titles 29 and 38 of the Colorado Revised Statutes)
    - Requires municipalities to permit the deployment of small cell facilities in the public rights-of-way
    - Expedited permitting ("shot clocks")
  - **Federal Communications Commission (FCC)** Small Cell Wireless Law and Regulations
    - August 2018 order: no moratoria on small cell wireless
    - September 2018 order: limits fees municipalities can charge, limits ability of municipalities to regulate small cell wireless facilities in the ROW, including aesthetics, shorter "shot clock" approval time frames

BACKGROUND *CONT'D*

- What is a small cell wireless facility?
  - Definition:
    - Structure has a limited height
    - Each antenna (without equipment) is no more than 3 cf in volume
    - All antenna equipment is no more than 28 cf in volume
  - Smaller infrastructure than macrocell towers
  - Smaller coverage area designed to complement macrocell towers and fill in gaps in coverage

Macrocell Tower

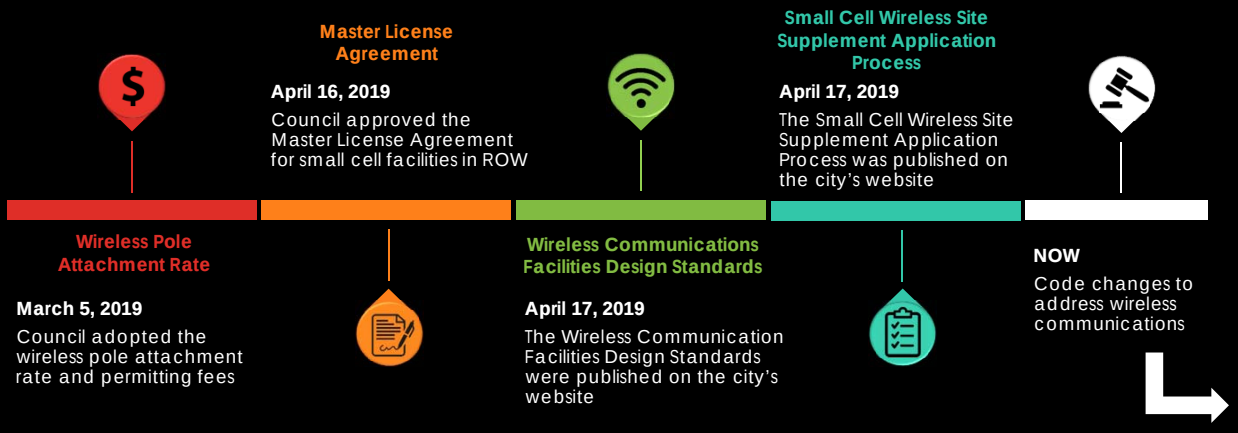
Small Cell Wireless Facility on stand-alone pole in ROW

Small Cell Wireless Facility on utility street light pole in ROW

Small Cell Wireless Facility on private property

BACKGROUND *CONT'D*

Prior steps completed for placement of Wireless Communication Facilities:



PURPOSE OF THE CODE

- Consolidate sections of existing code that address wireless telecommunications
- Add new provisions to address state law
- Exercise local control to the extent permitted
- Address various concerns:
  - Compliance with state and federal law
  - Public safety
  - Aesthetics
  - Protection of the City

OUTLINE OF THE CODE

- Applicability
  - All wireless communications facilities (WCF), including small cells and macrocell towers
- Purpose and Intent
- Definitions
- Applications and Review Procedures
- WCF in the Right-of-Way
  - Adoption of City's design standards, with option to seek variation
  - Master license agreement required
  - Pole attachments
  - Fees and costs

OUTLINE OF CODE *CONT'D*

- WCF on Private Property
  - Design standards
    - Design criteria, setbacks, screening, fencing, height, landscaping, screening, safety, maintenance and inspection
  - Co-location
- FCC Eligible Facilities
- Enforcement and Penalties

OTHER CODE CHANGES

- Unified Development Code (UDC) – Title 18
  - Remove design criteria and other provisions related to wireless telecommunications facilities, including towers, small cells, etc.
  - Remove specific definitions
  - Leave land use tables but revise references/links
- Pole Attachments – Title 13
  - Modify to only apply to wired attachments

QUESTIONS?

5

Attachment B

Title 14 - Wireless Communications Code

14.04 Applicability. This chapter applies to the installation, construction, and modification of wireless communications facilities on structures within the public rights-of-way, including poles, street lights and other structures owned by the City, structures owned by third parties, and structures installed and owned by a wireless communications services provider. This chapter also applies to the installation, construction and modification of wireless communications facilities on private property in addition to the provisions of the City of Loveland Unified Development Code found at Title 18 of the Loveland Municipal Code.

14.08 Purpose and Intent. The purpose of this chapter is to provide specific regulations in the City's exercise of its police powers for the installation, construction, and modification of wireless communications facilities within the City of Loveland. The provisions of this chapter are not intended to and shall not be interpreted to prohibit or to have the effect of prohibiting the provision of wireless communications services, nor shall the provisions of this chapter be applied in such a manner as to discriminate unreasonably between providers of functionally equivalent wireless communications services. To the extent that any provision or provisions of this chapter are inconsistent or in conflict with any other provision of the Loveland Municipal Code or any ordinance of the City, the provisions of this chapter shall be deemed to control. The goals of this chapter are to:

- encourage the installation and location of wireless communications facilities in a manner that minimizes the visual impact of such installations on the community;
- encourage strongly the joint use of new and existing tower sites or poles by wireless communications services providers;
- encourage the deployment of smaller, less intrusive wireless communications facilities;
- effectively manage wireless communications facilities installed in the public rights-of-way;
- encourage users of towers and antennas to configure them in a way that minimizes the adverse visual impact of the towers and antennas;
- to protect the public health, safety and general welfare, including the City's ability to safely operate and maintain its infrastructure in the public rights-of-way; and
- enhance the ability of wireless communications service providers to provide such services throughout the City quickly, effectively, and efficiently.

14.12 Definitions

"Accessory Equipment" means any equipment serving or being used in conjunction with a wireless communications facility, including, but not limited to, utility or transmission equipment, power supplies, generators, batteries, cables, equipment buildings, cabinets and storage sheds, shelters or other structures including fences.

DRAFT

"Alternative Tower Structure" means man-made trees, clock towers, bell steeples, light poles, traffic signals, buildings, and similar alternative design mounting structures that are compatible with the natural setting and/or surrounding structures, and camouflage or conceal the presence of antennas or towers so as to make them architecturally compatible with the surrounding area pursuant to this chapter. This term also includes any antenna or antenna array attached to an alternative tower structure. A stand-alone monopole (including a replacement pole) in the ROW that accommodates small cell wireless facilities is considered an alternative tower structure to the extent it meets the camouflage and concealment standards of this Article.

"Antenna" means any device used to transmit and/or receive radio or electromagnetic waves such as, but not limited to, panel antennas, reflecting discs, microwave dishes, whip antennas, directional and non-directional antennas consisting of one or more elements, multiple antenna configurations, or other similar devices and configurations, and exterior apparatus designed for telephone, radio, or television communications through the sending and/or receiving of wireless communications signals.

"Applicant" means any person that submits an application to the City to site, install, construct, collocate, modify and/or operate a communications facility.

"Carrier space" means space on or within the poles that can be used, as defined in the City's electric standards and all other standards adopted in the Loveland Municipal Code, for the attachment or placement of wires, cables, small cell facilities, and associated equipment for the provision of communications services or electric services. The neutral zone or safety space is not considered carrier space.

"Attachments" means each point of contact between a wireless communications facility or small cell facility and a pole, whether placed directly on the poles or overlashed onto an existing attachment, but does not include a riser or a service drop attached to a single pole where applicant has an existing attachment on such pole. Attachment(s) shall include, without limitation, the following points of strain: down guys, main line attachments, and any other attachment that could shorten the life cycle of the pole.

"Base Station" means a structure or equipment at a fixed location that enables FCC-licensed or authorized wireless communications between user equipment and a communications network. The definition of base station does not include or encompass a tower as defined herein or any equipment associated with a tower including the defined accessory equipment. Base Station includes, without limitation:

1. Equipment associated with wireless communications services such as private broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul that, at the time the relevant application is filed with the City under this chapter and has been reviewed and approved under the applicable zoning or siting process, or under another State or local regulatory review process, even if the structure was not built for the sole or primary purpose of providing such support; and
2. Radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supplied, and comparable equipment, regardless of technological configuration (including Distributed Antenna Systems ("DAS") and small-cell networks) that, at the time the relevant application is filed with the City, has been reviewed and approved under the applicable zoning or siting process, or under another State or local

DRAFT

regulatory review process, even if the structure was not built for the sole or primary purpose of providing such support.

The definition of base station does not include any structure that, at the time the relevant application is filed with the City, does not support or house equipment described in paragraphs 1 and 2 above.

"Camouflage," "Concealment," or "Camouflage Design Techniques." A wireless communications facility is camouflaged or utilizes camouflage design techniques when any measures are used in the design and siting of such facility with the intent to minimize or eliminate the visual impact of such facilities to surrounding uses. A wireless communications facility site utilizes camouflage design techniques when it (1) is integrated in an outdoor fixture such as a flagpole, or (2) uses a design which mimics and is consistent with the nearby natural or architectural features (such as an artificial tree on private property or a streetlight in the public right-of-way) or is incorporated into (including, without limitation, being attached to the exterior of such facilities and painted to match it) or replaces existing permitted facilities (including without limitation, stop signs or other traffic signs or freestanding light standards) so that the presence of the communications facility is not readily apparent.

"Climbing space" means that portion of a pole's surface and surrounding space that is free from encumbrances to enable City employees and contractors to safely climb, access, and work on City facilities and equipment.

"Collocation" or "co-location" means (1) mounting or installing a communications facility on a pre-existing structure, and/or (2) modifying a structure for the purpose of mounting or installing a communications facility on that structure. Provided that, for purposes of eligible facilities requests, "collocation" or "co-location" means the mounting or installation of transmission equipment on an eligible support structure for the purpose of transmitting and/or receiving radio frequency signals for communications purposes.

"Capacity" means the ability of a pole segment to accommodate an additional attachment based on applicable standards, including space and loading considerations.

"Common space" means space on the poles that is not used for the placement of wires or cables but which jointly benefits all users of the poles by supporting the underlying structure and/or providing safety clearance between attaching entities and electric utility facilities.

"Eligible Facilities Request" means any request for modification of an Existing Tower or Base Station that does not Substantially Change (as defined below) the physical dimensions of such Tower involving:

(i) collocation of new transmission equipment,
(ii) removal of transmission equipment, or
(iii) replacement of transmission equipment.

"Eligible Support Structure" means any tower or base station as defined in this Chapter, provided that it is existing at the time the relevant application is filed with the City under this section.

"Existing Tower or Base Station" means a constructed tower or base station is existing if it has been reviewed and approved under the applicable zoning or siting process, or under another state or local regulatory review process, provided that a tower that has not been reviewed and approved because it was not in a zoned area when it was built, but was lawfully constructed, is existing for purposes of this definition.

"FAA" means the Federal Aviation Administration.

DRAFT

"FCC" means the Federal Communications Commission.

"IEEE-SA" means the Institute of Electrical and Electronics Standards Association.

"Licensee" means any person who holds a license or permits to site, install, construct, collocate, modify, maintain, and/or operate a wireless communications facility in the ROW.

"Master license agreement" means an agreement entered into between an Applicant and the City which governs all of the applicant's installation, construction, and maintenance of wireless communications facilities in the public right-of-way.

"Micro wireless facility" means a small wireless facility that is no larger in dimensions than twenty-four inches in length, fifteen inches in width, and twelve inches in height and that has an exterior antenna, if any, that is no more than eleven inches in length.

"Monopole" means a single, freestanding pole-type structure supporting one or more Antennas.

"Overlash" means to place an additional wire or cable communications facility onto an existing attachment owned by licensee.

"Pole" means a pole owned by the City located within the ROW.

"Pole-mounted Small Cell Wireless Facility" means a small cell facility with an antenna or antennas that are mounted and supported on an alternative tower structure, which includes a replacement pole.

"Public Property" means real property owned or controlled by the city, excluding the public right-of-way.

"Public Right-of-Way" or "ROW" means any public street, way, alley, sidewalk, median, parkway, or boulevard that is dedicated to public use.

"Non-Ionizing Radiation Electromagnetic Radiation Report (NIER)" means a report from the applicant that complies with the City of Loveland Wireless Communications Facilities Development Standards regarding radio frequency emissions certifying that all wireless communications facilities that are the subject of the application shall comply with federal standards for radio frequency emissions.

"Replacement Pole" means a newly constructed and permitted traffic signal, utility pole, street light, flagpole, electric distribution, or street light pole or other similar structure of proportions and of equal height or such other height that would not constitute a Substantial Change to a preexisting pole or structure in order to support a wireless communications facility or to accommodate collocation and remove the pre-existing pole or structure.

"Site" means the area comprising the base of the structure and other related Accessory Equipment deployed on the ground.

"Site supplement" means a license for an individual wireless communications facility within the ROW.

"Signal Interference Letter" means a letter from the applicant certifying that all wireless communication facilities that are the subject of the application shall be designed, sited and operated in accordance with applicable federal regulations addressing radio frequency interference.

"Small cell facility" or "small cell wireless facility" means a wireless communications facility where each antenna is located inside an enclosure of no more than three cubic feet in volume, or, in the case of an antenna that has exposed elements, the antenna and all of its exposed elements could fit within an imaginary enclosure of no more than three cubic feet; and primary equipment enclosures are not larger than seventeen cubic feet in volume. The following associated equipment may be located outside of the primary equipment enclosure and, if so located, is not included in the

DRAFT

calculation of equipment volume: electric meter, concealment, telecommunications demarcation box, ground-based enclosure, backup power systems, grounding equipment, power transfer switch and cut-off switch. For the avoidance of doubt, small cell facilities may be attached to Alternate tower structures, monopoles, and pole support structures.

"Substantial Change" means a modification to the physical dimensions of an eligible support structure where, after the modification, the structure meets any of the following criteria:

i. *Height Increase.* For towers, other than alternative tower structures in the right of-way or other towers in the right-of-way, it increases the height of the tower by more than ten percent or by the height of one additional antenna array, with separation from the nearest existing antenna not to exceed twenty feet, whichever is greater; for other eligible support structures, it increases the height of the structure by more than ten percent or more than ten feet, whichever is greater;

ii. *Added Appurtenance.* For towers, other than towers in the right-of-way, it involves adding an appurtenance to the body of the tower that would protrude from the tower more than twenty feet, or more than the width of the tower structure at the level of the appurtenance, whichever is greater; for eligible support structures, it involves adding an appurtenance to the body of the structure that would protrude from the side of the structure by more than six feet;

iii. *Equipment Cabinets.* For any eligible support structure, it involves installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets; or for towers in the right-of-way and base stations, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than ten percent larger in height or overall volume than any other ground cabinets associated with the structure;

iv. *Excavation or Deployment.* For any eligible support structure, it entails any excavation or deployment outside the current site; *Defeating Concealment.* For any eligible support structure, it would defeat the concealment elements of the eligible support structure. For purposes of this definition, any change that undermines concealment elements of an eligible support structure shall be interpreted as defeating the concealment elements of that structure; or

v. *Noncompliance with Existing Approvals.* For any eligible support structure, it does not comply with conditions associated with the siting approval of the construction or modification of the eligible support structure equipment, unless the non-compliance is due to an increase in height, increase in width, added appurtenances, addition of cabinets, or new excavation that would not exceed the thresholds identified in paragraphs (i), (ii), and (iii) of this definition. For purposes of determining whether a substantial change exists, changes in height are measured from the original support structure in cases where deployments are or will be separated horizontally, such as on buildings' rooftops; in other circumstances, changes in height are measured from the dimensions of the tower or base station, inclusive of originally approved appurtenances and any modifications that were approved prior to February 22, 2012.

"Support Structure" means a structure designed to support small cell wireless facilities including, but not limited to, monopoles, alternative tower structures, replacement poles, and other freestanding self-supporting pole structures.

"Tower" means any structure that is built for the sole or primary purpose of supporting one or more FCC-licensed or authorized antennas and their associated facilities, including structures that

DRAFT

are constructed for wireless communications services including, but not limited to, private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul, and the associated site. The term includes self-supporting lattice towers, guyed towers or monopole towers, radio and television transmission towers, microwave towers, common carrier towers, cellular telephone towers, alternative tower structures and the like.

"Transmission Equipment" means equipment that facilitates transmission for any FCC licensed or authorized wireless communication service, including, but not limited to, radio transceivers, antennas, coaxial or fiber-optic cable, and regular and backup power supply. The term includes equipment associated with wireless communications services including, but not limited to, private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul.

"Unified Development Code" means Title 18 of the Loveland Municipal Code.

"Wireless Communications Facilities Development Standards" or "Standards" means the aesthetic, technical, and physical standards adopted by the City that wireless communications facilities must meet as part of the master licensing agreement.

"Wireless Communications Facility" or "WCF" means a communications facility used to provide personal wireless services as defined at 47 U.S.C. Section 332 (c)(7)(C); or wireless information services provided to the public or to such classes of users as to be effectively available directly to the public via licensed or unlicensed frequencies; or wireless utility monitoring and control services. A WCF does not include a facility entirely enclosed within a permitted building where the installation does not require a modification of the exterior of the building; nor does it include a device attached to a building used for serving that building only and that is otherwise permitted under other provisions of the Code. A WCF includes an antenna or antennas, including without limitation, directional, omni-directional and parabolic antennas, support equipment, alternative tower structures, and towers. It does not include the support structure to which the WCF or its components are attached if the use of such structures for WCFs is not the primary use. The term does not include mobile transmitting devices used by wireless service subscribers, such as vehicle or hand held radios/telephones and their associated transmitting antennas, nor does it include other facilities specifically excluded from the coverage of this chapter.

14.16 Applications and review procedures

14.16.010 Application required. No new WCF shall be constructed and no collocation or modification to any WCF may occur except after a written request from an applicant, reviewed and approved by the City in accordance with this chapter and the Loveland Municipal Code. All applications, except eligible facilities requests, shall be submitted and reviewed pursuant to the procedures described below.

14.16.020 Submittal requirements.

A. WCF in the ROW. The applicant shall submit a small cell wireless site supplement application on the form provided by the City through its Building Division and provide all information required by the City, including but not limited to the signed master license agreement with current certificate of

DRAFT

insurance, electrical service worksheet, complete construction plans, NIER report, permits, submittal fees, and other information deemed by the City Manager or his or her designee to be necessary to determine compliance with this chapter, the master license agreement, and the Standards. Such application shall be processed through the City's building permit process.

B. WCF on private property. The applicant shall submit an application on the form provided by the City through its Current Planning Division and provide all information required by the City. Such application shall be processed through the City's development review process.

14.16.030 Use by right. In all zoning districts, applications for small cell facilities shall be reviewed as a use by right, without public hearing, in conformance to this chapter and the Code, including the Unified Development Code.

14.16.040 Time for review and approval. The City shall review and approve applications for WCF in the manner necessary to comply with applicable state and federal law.

14.16.050 Consolidated applications. The City shall allow an applicant to file a consolidated application for up to ten (10) small cell facilities to be located within the ROW. The City may deny all or a portion of a consolidated application to the extent the application or portion thereof does not confirm to the applicable City requirements. A consolidated application must not include any wireless communications facility to be located on private property.

14.16.060 Approval or denial. The City will approve or deny an application in writing. The approval of an application shall specify all design elements intended to conceal the WCF. The denial of an application shall specify the reasons for denial, including reference to substantial evidence in the record that supports the City's denial.

14.20 Permits required. For all activities relating to a WCF in the City, the applicant shall be responsible for obtaining from the City and any other applicable entities all necessary permits and authorizations for the construction, modification, repair, or removal of such WCF, which permits may include but not be limited to a right-of-way work permit, building permit, and electric metering. The applicant shall be required to comply with all requirements and conditions of such permits.

14.24 Specifications. Applicant shall install and maintain its WCF in accordance with all applicable City standards, including the Loveland Municipal Code, local building and safety codes, the master license agreement, and the Standards.

14.28 Non-interference. All WCF shall be designed and sited in accordance with FCC standards so as not to cause interference with the normal operation of licensed radio, television, telephone and utility, City, or other communications services on adjacent properties; nor shall any such WCF interfere with any public safety communications.

14.32 Maintenance and inspection. The applicant shall maintain its facilities in good and safe condition and in a manner that complies with all applicable federal, state and local requirements. The site and the WCF, including all landscaping and fencing, as applicable, and related transmission equipment must be maintained at all times in a neat and clean manner and in accordance with all approved plans and

DRAFT

specifications. Graffiti and damage must be timely removed or repaired by the applicant after notification from the City.

14.36 WCF in the Right-of-Way

14.36.010 Design and Location Standards Adopted. The Standards are hereby adopted by reference. The Standards shall be published on the City of Loveland internet site and made available to the public. Every installation, construction, and modification of WCF within the City's ROW shall be designed and located in accordance with the Standards and applicable sections of the Loveland Municipal Code. Notwithstanding anything in the Code to the contrary, any revisions to the Standards, including revisions that adopt codes by reference, shall be made by the City in accordance with the process set forth in the Standards.

14.36.020 Variation from Standards. Modifications to the Standards for a site supplement may be proposed by the applicant by the submission of an alternative design drawing or illustration to the Director of the Department of Water and Power or his or her designee ("Director"). The drawing or illustration shall clearly identify the differences between the Standards and the proposed alternative design. Where the Director finds such submitted alternative design presents a de minimis or nominal visual impact when compared to the Standards, the Director may approve such alternative design which approval shall be evidenced by written acknowledgment signed by the Director and affixed to the particular site supplement. The Director shall retain the discretion to deny a proposed alternative design where the Director finds the proposed design to be more visually or aesthetically impactful than the Standards. At the Director's discretion, the Director may submit the proposed alternative design illustrations to the City Manager for an administrative determination that the proposed design is, or is not, more visually or aesthetically impactful than the Standards.

14.36.030 Unlawful facilities. It shall be unlawful for a WCF to be placed in any ROW except in compliance with this code. Such unauthorized installation will be subject to immediate removal by the City if the installation is not promptly brought into compliance with this chapter, and the applicant shall be subject to such penalties as authorized by the master license agreement and this chapter.

14.36.050 Master license agreement required

A. Prior to submittal of an application to install WCF within the ROW, the Applicant must execute a master license agreement with the City that applies to all facilities of the Applicant to be installed within the ROW. Such master license agreement shall be in a form approved by the City Attorney. The City Manager is authorized to execute the master license agreement on behalf of the City.

B. No license granted hereunder shall be effective until the Applicant and the City have executed the master license agreement setting forth the particular terms and provisions under which the license to occupy and use the City's ROW will be granted.

C. The master license agreement shall govern each WCF installation for which individual site licenses are issued by the City. The City may withhold further individual site licenses until any ongoing

DRAFT

violations or defaults in the Applicant's performance under the master license agreement, or of any requirements of this chapter, have been cured.

D. In no circumstance shall the length of the term of any license issued exceed ten (10) years.

E. Nothing contained herein shall prohibit or limit the City and the Applicant from modifying the terms and conditions of the master license agreement by mutual agreement. The City Manager, or his or her designee, shall be authorized to execute such amendment.

F. In the case of a conflict between this code, the Standards, and the master license agreement, the provisions of such shall prevail in the following order of priority: the Standards, this code, and the master license agreement, except as federal or state law may preempt or act to modify the code or the Standards, and so long as the terms of this code or Standards do not alter any material rights granted in the master license agreement

14.36.060 Rights Granted. No license granted under this chapter shall confer any exclusive right, privilege, license, or franchise to occupy or use the City's ROW for delivery of wireless communications services or any other purposes. No license granted under this chapter shall convey any right, title, or interest in the ROW, but shall be deemed a license only to use and occupy the ROW for the limited purposes and term stated in the license; further, no license shall be construed as any warranty of title.

14.36.070 Referral to City Council. Except for WCFs in the ROW that otherwise meet all requirements of this chapter, should the City Manager or his or her designee consider the proposed WCF to have a significant visual impact (i.e. proximity to historical sites) or otherwise be incompatible with the structure or surrounding area, or not meet the intent of these provisions, the City Manager or designee may refer the application to City Council for approval.

14.36.080 Pole Attachments in General

A. The City is the owner of certain poles located within the public right-of-way, including but not limited to, utility poles, traffic poles, and street light poles. In accordance with the purposes and intent of this chapter, the City is willing to authorize the attachment of WCFs to City poles in the ROW to the extent that such attachments comply with the Code and the master license agreement.

B. A site supplement is authorization for attachment to specific poles, one for each pole or overlash.

C. The City will issue a site supplement for attachment to a pole only when the City determines, in its sole judgment, exercised reasonably, that the pole has sufficient capacity to accommodate the request safely. The City may refuse to issue a license for attachment to a Pole where safety concerns cannot be adequately addressed through engineering.

D. Any modifications or additions necessary to make a City-owned structure ready for safe attachment will be the responsibility of the Applicant, as well as all associated design and engineering or other costs. The Applicant is responsible for payment for all work performed by the City to accommodate the Applicant's attachment of WCF.

E. All attachments shall comply with all applicable City standards. Attachments, overlash, or other components must not interfere with the operation of any City facilities.

14.36.090 Fees and costs

A. Applicant Responsible for Fees and Costs. The Applicant shall pay application fees, annual fees and permit fees as published in the City's rates, charges and fees at the time of submission of an application to install a WCF. The Applicant shall also reimburse the City for any actual, identified direct or indirect costs reasonably incurred by the City in planning, constructing, installing, repairing or altering any City facility as a result of the construction or the presence in the right-of-way of the Applicant's WCF. The Applicant shall be subject to any other generally applicable fees of the City or other entity.

B. Invoice and Payment. The City shall invoice the Applicant annually for the attachment fee, for a period that concludes each December 31. The Applicant shall pay any invoices issued by the City within thirty (30) days. Failure to make payment by the deadlines set forth may accrue penalties or interest as described in the master license agreement.

C. No Refund. Except as otherwise provided in the master license agreement, the Applicant may remove its WCF from the public right-of-way at any time, subject to the necessary permitting, upon thirty (30) days prior written notice to the City, and may cease paying to the City any applicable recurring fees for such use as of the date of actual removal of the WCF and complete restoration of the public right-of-way. In no event shall an Applicant be entitled to a refund of fees paid prior to removal of its WCF.

D. Taxes. The Applicant shall pay all applicable City, county and state taxes levied, assessed, or imposed on Applicant or Applicant's WCF related to any of Applicant's WCF and/or services provided within the City.

14.36.100 Insurance. The Applicant shall maintain current at all times liability and property insurance for each WCF in the public right-of-way as required in the master license agreement. For any work not performed by the City, the Applicant shall comply with the insurance requirements set forth in Section 12.16.070.

14.36.110 Indemnification. The Applicant shall indemnify and hold harmless the City, its officers, employees, and agents from and against all liability, claims, and demands on account of any injury, loss, or damage arising out of or connected with the applicant's operation of WCF in the ROW, if such injury, loss, or damage, or any portion thereof, is caused by, or claimed to be caused by, the act, omission, or other fault of the applicant or any subcontractor of the applicant, or any officer, employee or agent of the applicant or any subcontractor, or any other person for whom the applicant is responsible. The applicant shall investigate, handle, respond to, and defend against any such liability, claims, and demands, and shall bear all other costs and expenses related thereto, including court costs and attorneys' fees. The applicant shall notify the City and provide a copy of any and all written claims or demands within two business days of receipt. The applicant's indemnification obligation shall not be construed to extend to any injury, loss, or damage to the extent caused by the act, omission, or other fault of the City.

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14.36.120 Removal and relocation

A. Within 90 days following written notice from the City an Applicant shall, at its own expense, temporarily or permanently remove, relocate, change or alter the position of any WCFs within the ROW whenever the City shall have determined that such removal, relocation, change or alteration is reasonably necessary for:

1. The construction, repair, maintenance or installation of any City or other public improvement in or upon the public ways.
2. The operations of the City or other governmental entity in or upon the ROW.

B. At its sole expense, the Applicant shall remove any of its WCF or any part thereof that become nonfunctional, create a safety hazard, violate any provision of applicable law or violate the Applicant's master license agreement. Removal shall occur within thirty (30) days of written notification from the City that an attachment must be removed due to becoming nonfunctional or a safety hazard.

C. If the City desires at any time to abandon, remove, or underground any utility facilities to which Applicant's WCF is attached, the City shall provide the Applicant notice in writing at least sixty (60) days prior to the date on which it intends to abandon or remove such facilities, and the Applicant shall remove its WCF at its sole cost and expense within that time period.

D. Emergency Removal or Relocation of Facilities. The City retains the right and privilege to cut or move any telecommunications facilities located within the City's ROW, as the City may determine to be necessary in response to any public health or safety emergency.

14.36.130 Abandonment

A. Any WCF in the public right-of-way that is not used for a period of six months or more shall be deemed to be abandoned. No Applicant or owner of the WCF shall fail to remove a WCF that is abandoned or is unused for a period of six months. If the WCF owner fails to remove an abandoned facility at the request of the City, the City may remove the WCF and charge the costs to the WCF owner.

B. Failure to pay the annual fee shall be considered abandonment. The City shall issue a notice to remove the attachment(s) if such fee is more than sixty (60) days past due.

C. The Applicant may surrender any license for attachment(s) and remove them from affected Poles. At least 30 days prior to the commencement of such work, Licensee must notify the City of the plan for removal, including the name of the party performing the work and dates and times when such work will be performed.

D. If Applicant abandons a WCF or surrenders its license and fails to remove its attachments, the City shall have the right to remove the Applicant's attachments at Applicant's expense.

14.40 WCF on Private Property

14.40.010 Wireless Communications Facilities Standards

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A. Design Criteria. Every WCF outside of the ROW shall comply with the following design criteria:

1. **Architectural Compatibility.** The WCF shall be architecturally compatible with the surrounding buildings and land uses in the same zone, or otherwise integrated, through location and design, to blend in with the existing characteristics of the subject property to the extent practical. Such facilities will be considered architecturally and visually compatible if they are camouflaged to disguise the facilities.
2. **Color.** Towers and antennas shall be of a color which generally matches the building, surroundings, or background and minimizes their visibility, unless a different color is required by the FCC or FAA. Muted colors, earth tones and subdued colors shall be used wherever possible.
3. **Lights, Signals, and Signs.** No signals, lights, or signs shall be permitted on towers or other structures unless required by the FCC or the FAA.

B. Tower Setbacks. Tower setbacks shall be measured from the base of the tower to the property line of the subject property.

1. *Residential Zones.* Towers shall be set back from all property lines a distance equal to 300 percent of tower height; provided, however, that a lesser setback may be permitted if the Director determines that:
    a. There are unusual geographical limitations that justify the reduced setback;
    b. The setback is not less than a distance equal to 100 percent of tower height; and
    c. The tower is camouflaged or otherwise adapted to be compatible with the surrounding area.
2. *All Other Zones.* In all zones that are not residential zones, towers shall comply with the minimum setback requirements of the area in which they are located.

C. Equipment Structures. Ground level equipment and buildings and the tower base shall be screened. The standards for equipment buildings are as follows:

1. The maximum floor area is 350 square feet and the maximum height is 12 feet.
2. Equipment mounted on a roof shall have a finish similar to the exterior building walls. Equipment for roof mounted antenna may also be located within the building on which the antenna is mounted, subject to generally accepted engineering practices. Equipment, buildings, antennas, and related equipment shall occupy no more than 25 percent of the total roof area of a building.

D. Structural Design. Towers shall be constructed to the FCC and EIA Standards, as may be amended from time to time, and all applicable construction, building, and safety codes.

E. Fencing. In the DT, B, or I zones, a stucco, masonry, or stone security wall, not less than six feet in height, shall be provided around each tower. In other zones, chain-link fencing is also allowed if it is surrounded by an evergreen hedge that is at least six feet in height. Security walls or fencing shall be

DRAFT

colored or designed to visually blend into the character of the existing environment. Access to the tower shall be through a locked gate.

F. Antenna and Tower Height. The applicant shall demonstrate that the antenna is the minimum height required to function satisfactorily. No antenna that is taller than the minimum height required to function shall be approved. Towers shall be no taller than the maximum permitted height for other structures contained within the applicable zone, except that in the DT, B, or I zones, permissible towers may be taller pursuant to conditional use review.

G. Antenna Support Structure Safety. The applicant shall demonstrate that the proposed antenna and support structure are safe and the surrounding areas will not be negatively affected by support structure failure, falling ice, or other debris or interference. All support structures shall be fitted with anti-climbing devices, as approved by the manufacturers.

H. Site Characteristics. Site location and development shall preserve the pre-existing character of the area in which the WCF site is located as much as possible. Existing vegetation should be preserved or improved, and disturbance of the existing topography of the site should be minimized, unless such disturbance would result in less visual impact of the site on the surrounding area. The effectiveness of visual mitigation techniques shall be evaluated by the city, taking into consideration the site as built

I. Antenna Design Criteria. Antenna mounted on any tower, building or other structure shall comply with the following requirements:

1. The antenna shall be architecturally compatible with the building and wall on which it is mounted so as to minimize any adverse aesthetic impact and shall be constructed, painted or fully screened to match as closely as possible the color and texture of the building and wall on which it is mounted.
2. The antenna shall be mounted on a wall of an existing building in a configuration as flush to the wall as technically possible and shall not project above the wall on which it is mounted unless for technical reasons the antenna needs to project above the wall. In no event shall an antenna project more than ten feet above the height of the building.
3. The antenna and its support structure shall be designed to withstand a wind force of 100 miles per hour without the use of supporting guy wires.
4. No antenna, antenna array, or its support structure shall be erected or maintained closer to any street than the minimum setback for the zone in which it is located. No guy or other support wires shall be used in connection with such antenna, antenna array, or its support structure except when used to anchor the antenna, antenna array, or support structure to an existing tower to which such antenna, antenna array, or support structure is attached.
5. The antenna may be attached to an existing mechanical equipment enclosure which projects above the roof of the building, but may not project any higher than ten feet above the enclosure.
6. On buildings that are 30 feet or less in height, the antenna may be mounted on the roof if:

a. The City finds that it is not technically possible or aesthetically desirable to mount the antenna on a wall.

b. The antenna or antennas and related base stations cover no more than an aggregate total of 25 percent of the roof area of a building.

c. Roof mounted antenna and related base stations are completely screened from view by materials that are consistent and compatible with the design, color, and materials of the building.

d. No portion of the antenna extends more than 10 feet above the height of the existing building.

J. Equipment Shelters. If an accessory equipment shelter is present, such building or structure shall blend with the surrounding buildings in architectural character and color.

K. Landscaping and Screening.

1. Landscaping shall be required to screen as much of the support structure as possible. The fence surrounding the support structure and any other ground level features (such as a building), shall be designed to soften the appearance of the cell site. The City may permit any combination of existing vegetation, berming, topography, walls, decorative fences or other features instead of landscaping, if they achieve the same degree of screening as the required landscaping. If an antenna is mounted flush on an existing building, and other equipment is housed inside an existing structure, landscaping shall not be required, except as otherwise required for the existing use.

2. The visual impacts of a tower shall be mitigated through landscaping or other screening materials at the base of the tower and ancillary structures. The following landscaping and buffering of towers shall be required around the perimeter of the tower and accessory structures:

   a. A row of evergreen trees a minimum of ten feet tall at planting and a maximum of six feet apart shall be planted around the perimeter of the fence; and

   b. A continuous hedge, at least 36 inches high at planting and capable of growing to at least 48 inches in height within eighteen months, shall be planted in front of the tree line referenced above.

3. Landscaping shall be installed on the outside of fences. Landscaping and berming shall be equipped with automatic irrigation systems meeting the water conservation standards of the City. Existing vegetation shall be preserved to the maximum extent practicable and may be used as a substitute for or in supplement towards meeting landscaping requirements.

L. Maintenance and Inspection.

1. To ensure the structural integrity of towers, the owner of a tower shall ensure that it is maintained in compliance with standards contained in applicable City building and safety codes, regulations of the FCC, and the applicable standards for towers that are

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published by the IEEE-SA, as amended from time to time. If, upon inspection, the City concludes that a tower fails to comply with such codes, regulations or standards and constitutes a danger to persons or property, then upon notice being provided to the owner of the tower, the owner shall have 30 days to bring such tower into compliance with such codes, regulations and standards. If the owner fails to bring such tower into compliance within said 30 days, the City may remove such tower at the expense of the owner's expense, the costs of which shall constitute a lien against the tower.

2. Each year after a facility becomes operational, the facility operator shall conduct a safety inspection in accordance with the IEEE-SA and FCC standards and within 60 days of the inspection, file a report with the City building division.

M. Non-Use or Abandonment.

1. In the event the use of any tower has been discontinued for a period of six months, the tower shall be deemed to be abandoned. Determination of the date of abandonment shall be made by the City, which shall have the right to request documentation or affidavits from the tower owner or operator regarding the issue of tower usage. Upon such abandonment, the owner or operator of the tower shall have an additional 60 days within which to complete one of the following:

    a. Reactivate the use of the tower or transfer the tower to another owner or operator who makes actual use of the tower within an additional 90 days. Only one transference of ownership is permitted in a 12 month period under these abandonment provisions.

    b. Dismantle and remove the tower. In such instance, if such tower is not removed within said 60 days, the City may remove such tower at the owner's expense.

2. If there are two or more users of a single tower, then removal of the tower is not required unless all users cease using the tower. However, parts of the tower that are rendered unnecessary by partial abandonment shall be removed.

3. At the earlier of 60 days from the date of abandonment without reactivation or upon completion of dismantling and removal, City approval for the tower shall automatically expire.

4. If an abandonment of a tower occurs by all of the permittees or licensees and the owner of the tower, the owner of the tower shall remain primarily responsible if the tower ceases to be used for its intended purposes by either it or other permittees or licensees for the transmission or reception of personal wireless services. In the event that the tower ceases to be licensed by the FCC for the transmission of telecommunications or broadband services, the owner of the tower shall maintain the prescribed painting or illumination of such tower until it is dismantled.

N. Co-Location in All Zones. The applicant shall demonstrate that any new antenna cannot be reasonably co-located on an existing structure.

O. New Towers in the DT Zone. New towers that are not co-located on an existing structure in the DT zone shall be processed as an adaptable use.

14.40.020 Co-location

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A. Co-location in general

1. To minimize adverse visual impacts associated with the proliferation of towers, the City encourages co-location of antennas by more than one carrier on existing towers or structures.
2. An existing tower or base station may be modified or reconstructed to accommodate the co-location of an additional antenna. Modification of an existing tower or base station that is not an eligible facility structure under section 14.44 to accommodate additional antennas shall be permitted in all zone districts, subject to the requirements of the zone district and the following criteria:
    a. An existing tower may be modified or rebuilt to a taller height, not to exceed twenty feet over the tower's existing height, to accommodate the co-location of an additional antenna. The tower as modified shall comply with the other provisions of this chapter.
    b. A tower which is being modified to accommodate the co-location of an additional antenna may be moved to a different location on the same property within 50 feet of its existing location so long as it remains within the same zone district. After the tower is rebuilt to accommodate co-location, only one tower shall remain on the property.
    c. The tower, as modified shall comply with the provisions of this chapter in all respects.
    d. The Applicant for modification of a tower and co-location of an antenna shall follow the approval process as set forth in this title for the zone district in which the tower is located.
3. No WCF owner, operator, lessee, or any officer or employee thereof, shall act to exclude any WCF provider from using the same facility, building, structure or location. WCF owners or lessees or officers or employees thereof shall cooperate in good faith to achieve co-location of WCFs and equipment with other WCF providers. Upon request by the City, the owner or operator shall provide evidence establishing why co-location is not reasonably feasible. The City shall not attempt to affect fee negotiations between private parties concerning co-location.
4. If a personal wireless services provider attempts to co-locate a facility on an existing or approved facility or location and the parties cannot reach agreement concerning the co-location, the City may require a third party technical study at the expense of either or both parties to resolve the dispute.

C. Co-location on new towers.

1. In order to reduce the number of towers needed in the City in the future, every new tower shall be designed to accommodate antenna for more than one user,

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unless the Applicant demonstrates why such design is not feasible for economic, technical or physical reasons, or unless the Current Planning Manager determines that a tower for only one user is more appropriate at a specified location.

2. Unless the Current Planning Division determines that co-location is not feasible, the site plan for every new tower shall delineate an area near the base of the tower to be used for the placement of additional equipment or buildings for other users. The site plan for towers in excess of 100 feet shall propose space for two or more other comparable tower users, while the site plan for towers under one hundred feet shall propose space for one other comparable tower user.
3. The City may deny an application to construct a new tower if the Applicant has not demonstrated a good faith effort to co-locate the antenna on an existing structure or tower.

14.44FCC Eligible Facilities Co-location

14.44.010 This section encourages the timely approval of eligible facilities requests for modification of an existing tower or base station that does not result in a substantial change to the physical dimensions of such tower or base station.

14.44.020 An applicant seeking approval of an eligible facilities request must submit an application to the City's Current Planning Division with the information required by the Current Planning Manager.

14.44.030 An eligible support structure may be modified or reconstructed to accommodate co-location pursuant to the application and review process set forth herein.

A. No co-location or modification to any existing tower or base station may occur except after a written request from an Applicant, reviewed and approved by the City in accordance with this section.

B. The City shall prepare, and from time to time revise, and make publicly available an application form which shall be limited to the information necessary for the City to consider whether an application is an eligible facilities request. Such information may include, without limitation, whether the project: would result in a substantial change; or violates a generally applicable law, regulation, or other rule reasonably related to public health and safety. To the extent necessary, the City may request additional information from the Applicant to evaluate the application under 47 U.S.C. § 332(c)(7) pursuant to the limitations applicable therein; however, the City may not require the Applicant to demonstrate a need or business case for the proposed modification or collocation.

C. Upon receipt of an application for an eligible facilities request pursuant to this section, the City's planning division shall review such application to determine whether the application qualifies as an eligible facilities request.

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D. Subject to the tolling provisions of section 14.44.020(E), within 60 days of the date on which an applicant submits an application seeking approval under this section, the City shall approve the application unless it determines that the application is not covered by this section.

E. The 60-day review period begins to run when the application is filed, and may be tolled only by mutual written agreement of the city and the applicant, or in cases where the City's Current Planning Division determines that the application is incomplete.

1. To toll the timeframe for incompleteness, the city must provide written notice to the applicant within 30 days of receipt of the application, specifically delineating all missing documents or information required in the application.

2. The timeframe for review begins running again when the applicant makes a supplemental written submission in response to the city's notice of incompleteness.

3. Following a supplemental submission, the city's planning division will notify the applicant within 10 days, if the supplemental submission did not provide the information identified in the original notice delineating missing information. The timeframe is tolled in the case of second or subsequent notices pursuant to the procedures identified herein. Subsequent notices of incompleteness may not specify missing documents or information that were not delineated in the original notice of incompleteness.

F. If the City determines that the applicant's request is not covered by the Middle Class Tax Relief and Job Creation Act of 2012 ("Section 6409") as delineated in this section, the presumptively reasonable timeframe under 47 U.S.C § 332(c)(7) of 90 days, as prescribed by the FCC's Shot Clock order, will begin to run from the issuance of the city's decision that the application is not a covered request.

G. In the event the City fails to act on a request seeking approval for an eligible facilities request under this section within the timeframe for review (accounting for any tolling), the request shall be deemed granted. The deemed grant becomes effective when the applicant notifies the city in writing after the review period has expired (accounting for any tolling) that the application has been deemed granted.

H. Applicants and/or the City may bring claims related to this section of the City Code implementing Section 6409 to any court of competent jurisdiction.

14.44.030 An eligible facilities request shall be permitted in all zone districts, subject to the requirements of the zone district and applicable use standards; provided, however, that such review may be modified or waived by the Current Planning Manager if, in the determination of the Current Planning Manager, such review would unduly delay a decision regarding the application as a covered request and an administrative review is reasonable under the circumstances.

14.44.040 Except as provided in section 14.44.020(F), a request for co-location that the City determines does not qualify as an eligible facilities request shall not be subject to this section.

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14.48 Enforcement and penalties

14.44.010 Any violation of this chapter shall be subject to the general penalty provision of the Loveland Municipal Code in section 1.12.010. Each day that a violation occurs or is permitted to exist by the applicant constitutes a separate offense.

14.44.020 Nothing in this title shall be construed as limiting any remedies that the City may have in the master license agreement or at law or in equity, for enforcement of this chapter.

14.44.030 An applicant shall not be excused from complying with any of the requirements of this chapter or the master license agreement, or any subsequently adopted amendments to this chapter or master license agreement, by any failure of the city on any one or more occasions to seek, or insist upon, compliance with such requirements or provisions.

14.52 Federal Requirements. All towers, WCF, and antennas shall meet or exceed current standards and regulations of the FAA, the FCC, and any other agency of the federal government with the authority to regulate towers, communications facilities, and antennas. If such standards and regulations are changed, then the owners of the towers, communications facilities, and antennas governed by this section shall bring such towers, communications facilities, and antennas into compliance with such revised standards and regulations within three months of the effective date of such standards and regulations, unless a more stringent compliance schedule is mandated by the controlling federal agency. Failure to bring towers, communications facilities, and antennas into compliance with such revised standards and regulations shall constitute grounds for the removal of the tower, communications facility, or antenna at the owner's expense.

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Attachment C

TITLE 18 UNIFIED DEVELOPMENT CODE

(Ord. 6248 §1, 11/06/2018)

PART 2: ZONES, LAND USE, BUILDINGS, AND STRUCTURES

Chapter 18.02 Zones, Overlay Zones, and Land Use

Division 18.02.03 Land Use by Zone

18.02.03.09 Utility and Wireless Telecommunications Land Use by Zone

The utility and wireless telecommunications land uses that are allowed in each zone are set out in Table 18.02.03.09, Utility and Wireless Telecommunications Land Use by Zone.

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Table 18.02.03.09
Utility and Wireless Telecommunications Land Use by Zone

Land Use	Zones												Standards Reference[1]
	Residential					Mixed-Use				Industrial	Parks and Resource		
	ER	R1/R1e	R2	R3e	R3	DT	B	MAC	E	I	PP	DR	
Key: "R" = Allowed Use; "L" = Limited Use; "A" = Adaptable Use; "C" = Conditional Use													
TABLE NOTES: [1] This column contains a cross-reference to the standards that apply to the use in zones in which the use is listed as Limited ("L"), Adaptable ("A"), or Conditional ("C"). [2] Type of review may vary based on scale of new construction. *See* Sec. 18.02.04.02, Scale Thresholds in DT and Residential Zones. [3] Essential utilities are not considered a primary land use, and are allowed in all zones with appropriate construction approvals.													
Utility Uses													
Data Center	-	-	-	-	-	L[2]	L	L	L	L	-	-	§ 18.02.04.10
Overhead Power Lines (110 kV or more)	C	C	C	C	C	-	C	C	C	C	C	C	§ 18.02.04.10
Utilities, Minor	A	A	A	A	A	A	A	A	A	R	A	A	§ 18.02.04.10
Utilities, Major	C	C	C	C	C	C	C	C	C	A	C	C	§ 18.02.04.10
Wireless Telecommunications Facilities													

Table 18.02.03.09 Utility and Wireless Telecommunications Land Use by Zone														
Land Use	Zones													Standards Reference[1]
	Residential						Mixed-Use				Industrial	Parks and Resource		
	ER	R1/R1e	R2	R3e	R3		DT	B	MAC	E	I	PP	DR	
Key: "R" = Allowed Use; "L" = Limited Use; "A" = Adaptable Use; "C" = Conditional Use														
Freestanding Telecommunications Tower	-	-	-	-	-	-	C	C	C	C	C	C		§ ~~18.02.04.11~~14.40.010
~~Stealth~~ ~~Telecommunications~~ ~~Tower~~Alternative Tower Structure	L	L	L	L	L	L	L	L	L	L	L	L		§ ~~18.02.04.11~~14.40.010
Other Telecommunications Facilities	L	L	L	L	L	L	L	L	L	L	L	L		§ ~~18.02.04.11~~14.40.010

Effective on: 11/20/2018

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Division 18.02.04 Use Standards

~~18.02.04.11 Wireless Telecommunications Standards~~

~~A. Purpose and Interpretation.~~

~~1. The purpose of this section is to provide specific regulations for the placement, construction and modification of wireless telecommunications facilities. The provisions of this section are not intended to and shall not be interpreted to prohibit or to have the effect of prohibiting the provision of personal wireless services, nor shall the provisions of this section be applied in such a manner as to discriminate unreasonably between providers of functionally equivalent personal wireless services. To the extent that any provision or provisions of this section are inconsistent or in conflict with any other provision of the City Code or any ordinance of the City, the provisions of this section shall be deemed to control.~~

~~2. The goals of this section are to:~~

~~a. Encourage the location of towers in non-residential areas and to minimize the total number of towers throughout the City;~~

~~b. Encourage strongly the joint use of new and existing tower sites;~~

~~c. Encourage users of towers and antennas to locate them, to the extent possible, in areas least likely to negatively affect residential property or other uses;~~

d. Encourage users of towers and antennas to configure them in a way that minimizes the adverse visual impact of the towers and antennas; and

. Enhance the ability of the providers of personal wireless services to provide such services throughout the city quickly, effectively, and efficiently.

C. **Historic Properties.** If the subject property is designated as an individual landmark or as a part of a historic district or site, additional criteria are applied pursuant to Section 18.17.03.03, Wireless Telecommunications Facility Shot Clocks.

D. **Design Criteria.** Every wireless telecommunications facility shall comply with the following design criteria:

0. *Architectural Compatibility*. Wireless telecommunications facilities shall be architecturally compatible with the surrounding buildings and land uses in the same zone, or otherwise integrated, through location and design, to blend in with the existing characteristics of the subject property to the extent practical. Such facilities will be considered architecturally and visually compatible if they are camouflaged to disguise the facilities.

0. *Color*. Towers and antennas shall be of a color which generally matches the building, surroundings, or background and minimizes their visibility, unless a different color is required by the FCC or FAA. Muted colors, earth tones and subdued colors shall be used wherever possible.

0. *Lights, Signals, and Signs*. No signals, lights, or signs shall be permitted on towers or other structures unless required by the FCC or the FAA.

H. **Tower Setbacks.** Tower setbacks shall be measured from the base of the tower to the property line of the subject property.

0. *Residential Zones*. Towers shall be set back from all property lines a distance equal to 300 percent of tower height; provided, however, that a lesser setback may be permitted if the Director determines that:

. There are unusual geographical limitations that justify the reduced setback;

. The setback is not less than a distance equal to 100 percent of tower height; and

. The tower is camouflaged or otherwise adapted to be compatible with the surrounding area.

0. *All Other Zones*. In all zones that are not residential zones, towers shall comply with the minimum setback requirements of the area in which they are located.

N. **Equipment Structures.** Ground level equipment and buildings and the tower base shall be screened. The standards for equipment buildings are as follows:

0. The maximum floor area is 350 square feet and the maximum height is 12 feet.

0. Equipment mounted on a roof shall have a finish similar to the exterior building walls. Equipment for roof mounted antenna may also be located within the building on which the antenna is mounted, subject to generally accepted engineering practices. Equipment, buildings, antennas, and related equipment shall occupy no more than 25 percent of the total roof area of a building.

Q. **Structural Design.** Towers shall be constructed to the FCC and EIA Standards, as may be amended from time to time, and all applicable construction, building, and safety codes.

R. **Fencing.** In the DT, B, or I zones, a stucco, masonry, or stone security wall, not less than six feet in height, shall be provided around each tower. In other zones, chain link fencing is also allowed if it is surrounded by an evergreen hedge that is at least six feet in height. Security walls or fencing shall be colored or designed to visually blend into the character of the existing environment. Access to the tower shall be through a locked gate.

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S. **Antenna and Tower Height.** The applicant shall demonstrate that the antenna is the minimum height required to function satisfactorily. No antenna that is taller than the minimum height required to function shall be approved. Towers shall be no taller than the maximum permitted height for other structures contained within the applicable zone, except that in the DT, B, or I zones, permissible towers may be taller pursuant to conditional use review.

T. **Antenna Support Structure Safety.** The applicant shall demonstrate that the proposed antenna and support structure are safe and the surrounding areas will not be negatively affected by support structure failure, falling ice, or other debris or interference. All support structures shall be fitted with anti-climbing devices, as approved by the manufacturers.

U. **Site Characteristics.** Site location and development shall preserve the pre-existing character of the area in which the subject property is located as much as possible. Existing vegetation should be preserved or improved, and disturbance of the existing topography of the site should be minimized, unless such disturbance would result in less visual impact of the site on the surrounding area. The effectiveness of visual mitigation techniques shall be evaluated by the city, taking into consideration the site as built

V. **Antenna Design Criteria.** Antenna mounted on any tower, building or other structure shall comply with the following requirements:

0. The antenna shall be architecturally compatible with the building and wall on which it is mounted so as to minimize any adverse aesthetic impact an d shall be constructed, painted or fully screened to match as closely as possible the color and texture of the building and wall on which it is mounted.

0. The antenna shall be mounted on a wall of an existing building in a configuration as flush to the wall as technically possible and shall not project above the wall on which it is mounted unless for technical reasons the antenna needs to project above the wall. In no event shall an antenna project more than ten feet above the height of the building.

0. The antenna and its support structure shall be designed to withstand a wind force of 100 miles per hour without the use of supporting guy wires.

0. No antenna, antenna array, or its support structure shall be erected or maintained closer to any street than the minimum setback for the zone in which it is located. No guy or other support wires shall be used in connection with such antenna, antenna array, or its support structure except when used to anchor the antenna, antenna array, or support structure to an existing tower to which such antenna, antenna array, or support structure is attached.

0. The antenna may be attached to an existing mechanical equipment enclosure which projects above the roof of the building, but may not project any higher than ten feet above the enclosure.

0. On buildings that are 30 feet or less in height, the antenna may be mounted on the roof if:

. The City finds that it is not technically possible or aesthetically desirable to mount the antenna on a wall.

. The antenna or antennas and related base stations cover no more than an aggregate total of 25 percent of the roof area of a building.

. Roof mounted antenna and related base stations are completely screened from view by materials that are consistent and compatible with the design, color, and materials of the building.

. No portion of the antenna extends more than 10 feet above the height of the existing building.

GG. **Equipment Shelters.** If an accessory equipment shelter is present, such building or structure shall blend with the surrounding buildings in architectural character and color.

HH. **Landscaping and Screening.**

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0. Landscaping shall be required to screen as much of the support structure as possible. The fence surrounding the support structure and any other ground level features (such as a building), shall be designed to soften the appearance of the cell site. The City may permit any combination of existing vegetation, berming, topography, walls, decorative fences or other features instead of landscaping, if they achieve the same degree of screening as the required landscaping. If an antenna is mounted flush on an existing building, and other equipment is housed inside an existing structure, landscaping shall not be required, except as otherwise required for the existing use.

0. The visual impacts of a tower shall be mitigated through landscaping or other screening materials at the base of the tower and ancillary structures. The following landscaping and buffering of towers shall be required around the perimeter of the tower and accessory structures:

. A row of evergreen trees a minimum of ten feet tall at planting and a maximum of six feet apart shall be planted around the perimeter of the fence; and

. A continuous hedge, at least 36 inches high at planting and capable of growing to at least 48 inches in height within eighteen months, shall be planted in front of the tree line referenced above.

0. Landscaping shall be installed on the outside of fences. Landscaping and berming shall be equipped with automatic irrigation systems meeting the water conservation standards of the City. Existing vegetation shall be preserved to the maximum extent practicable and may be used as a substitute for or in supplement towards meeting landscaping requirements.

NN. **Maintenance and Inspection.**

0. To ensure the structural integrity of towers, the owner of a tower shall ensure that it is maintained in compliance with standards contained in applicable City building and safety codes, regulations of the FCC, and the applicable standards for towers that are published by the EIA, as amended from time to time. If, upon inspection, the City concludes that a tower fails to comply with such codes, regulations or standards and constitutes a danger to persons or property, then upon notice being provided to the owner of the tower, the owner shall have 30 days to bring such tower into compliance with such codes, regulations and standards. If the owner fails to bring such tower into compliance within said 30 days, the City may remove such tower at the owner's expense, the costs of which shall constitute a lien against the property.

0. Each year after a facility becomes operational, the facility operator shall conduct a safety inspection in accordance with the EIA and FCC Standards and within 60 days of the inspection, file a report with the City building division.

QQ. **Non-Use or Abandonment.**

0. In the event the use of any tower has been discontinued for a period of six months, the tower shall be deemed to be abandoned. Determination of the date of abandonment shall be made by the City, which shall have the right to request documentation or affidavits from the tower owner or operator regarding the issue of tower usage. Upon such abandonment, the owner or operator of the tower shall have an additional 60 days within which to complete one of the following:

. Reactivate the use of the tower or transfer the tower to another owner or operator who makes actual use of the tower.

. Dismantle and remove the tower. In such instance, if such tower is not removed within said sixty days, the city may remove such tower at the owner's expense.

0. If there are two or more users of a single tower, then removal of the tower is not required unless all users cease using the tower. However; parts of the tower that are rendered unnecessary by partial abandonment shall be removed.

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0. At the earlier of 60 days from the date of abandonment without reactivation or upon completion of dismantling and removal, City approval for the tower shall automatically expire.

0. If an abandonment of a tower occurs by all of the permittees or licensees and the owner of the tower, the owner of the tower shall remain primarily responsible if the tower ceases to be used for its intended purposes by either it or other permittees or licensees for the transmission or reception of personal wireless services. In the event that the tower ceases to be licensed by the FCC for the transmission of telecommunications or broadband services, the owner of the tower shall maintain the prescribed painting or illumination of such tower until it is dismantled.

XX. **Federal Requirements.** All towers and antennas shall meet or exceed current standards and regulations of the FAA, the FCC, and any other agency of the federal government with the authority to regulate towers and antennas. If such standards and regulations are changed, then the owners of the towers and antennas governed by this Section shall bring such towers and antennas into compliance with such revised standards and regulations within three months of the effective date of such standards and regulations, unless a more stringent compliance schedule is mandated by the controlling federal agency. Failure to bring towers and antennas into compliance with such revised standards and regulations shall constitute grounds for the removal of the tower or antenna at the owner's expense.

YY. **Co-Location in All Zones.** The applicant shall demonstrate that any new antenna can not be co-located on an existing structure.

ZZ.A. **New Towers in the DT Zone.** New towers that are not co-located on an existing structure in the DT zone shall be processed as an adaptable use.

TITLE 18 UNIFIED DEVELOPMENT CODE

(Ord. 6248 §1, 11/06/2018)

PART 3: SITE DESIGN AND ENVIRONMENTAL QUALITY

PART 3: SITE DESIGN AND ENVIRONMENTAL QUALITY

Chapter 18.05 Access, Circulation, Parking, and Loading

Division 18.05.03 Parking and Loading Calculations

18.05.03.03 Parking Requirements Tables

H. **Utility and Wireless Telecommunications Land Uses.** The required off-street parking for utility and wireless telecommunications land uses is set out in Table 18.05.03.03.H., Utility and Wireless Telecommunications Land Use Parking Standards.

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I. Table 18.05.03.03.H. Utility and Wireless Telecommunications Land Use Parking Standards	
Land Use	**Minimum Required Parking**
Utility Uses	
Data Center	1 sp. / 500 sf.
Overhead Power Lines (110 kV or more)	N/A
Electrical Substation	1 sp. / 10,000 sf. of secured area
Utilities, Major	special study
Wireless Telecommunications Facilities	
Freestanding Telecommunications Tower	1 sp.
~~Stealth Telecommunications Tower~~Alternative Tower Structure	1 sp.
Other Telecommunications Facilities	N/A

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Chapter 18.06 Site Design

Division 18.06.04 Standards for Complete Neighborhoods

18.06.04.09 Wireless Telecommunications Plan

An application for approval of a complete neighborhood may include a plan for the provision of wireless telecommunications services to the development. Said plan shall be reviewed for compliance with applicable standards of ~~Section 18.02.04.11, Wireless Telecommunications Standards~~Title 14 of the Loveland Municipal Code. Approval of the plan shall constitute approval of the wireless telecommunications facilities identified in the plan for the purposes of this U~~L~~DC, provided that they are constructed in the locations and to the design specifications set out in the plan.

TITLE 18 UNIFIED DEVELOPMENT CODE

(Ord. 6248 §1, 11/06/2018)

PART 4: NONCONFORMITIES, DEVELOPMENT REVIEW, AND ENFORCEMENT

Chapter 18.17 SPECIFIC Review Procedures AND APPROVAL STANDARDS

Division 18.17.03 Expedited Reviews ~~and Shot Clocks~~

18.17.03.01 Expedited Review for Farmers Markets

Permit applications for farmers markets shall be reviewed within one week, except in situations, as determined by the Director, where the volume of development review applications significantly exceeds normal levels or where staffing levels are reduced. During such situations, the application review shall be completed within two weeks.

Effective on: 11/20/2018

18.17.03.02 Expedited Review for Designated Affordable Housing

The City shall process all applications for affordable housing developments on an expedited time line. Complete applications for affordable housing developments shall be placed ahead of all other complete applications in the review process. All required reviews of applications for affordable housing developments by City staff members and City boards and commissions shall be accomplished in as expeditious a manner as possible consistent with good planning principles.

Effective on: 11/20/2018

~~18.17.03.03 Wireless Telecommunications Facility Shot Clocks~~

~~A. **Generally.** The procedures of this Section apply to wireless telecommunications facilities that are listed in Section 18.02.03.09, Utility and Wireless Telecommunications Land Use by Zone.~~

~~B. **"Shot Clock".** The Federal Communications Commission has established mandatory time frames for review of different types of applications for the wireless telecommunications uses that are listed in Section 18.02.03.09, Utility and Wireless Telecommunications Land Use by Zone.~~

~~0. The "shot clock" commences at the time the application is filed, whether the application is complete or not. With respect to telecommunications uses, Section 18.14.03.06, Completeness Review, is modified as follows:~~

~~. The City shall respond to the applicant with regard to whether the application is complete within 30 days after it is filed. The notice from the City shall specifically delineate all missing information, and specify the code provision, ordinance, application instruction, or other publicly-stated procedure that requirements the information. Such determination of incompleteness tolls the "shot clock."~~

~~. Applications that are incomplete shall be retained by the City.~~

~~. The City shall evaluate a resubmittal for completeness and respond to the applicant within 10 days.~~

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~~0. If the City requests information that had previously been identified in the notice issued pursuant to subsection B.1.c.1.a., above, the "shot clock" shall be tolled again.~~

~~0. If the City requests additional information that was not identified in the notice, the shot clock shall continue to run.~~

~~0. The "shot clock" concludes:~~

~~. 150 days after commencement for new installations that are regulated by 47 U.S.C. § 332(c)(7).~~

~~. 90 days after commencement for substantial changes to existing installations (e.g., co-locations that are not subject to 47 U.S.C. § 1455).~~

~~. 60 days after commencement for "eligible facilities" as defined in 47 U.S.C. § 1455.~~

~~0. In addition to tolling that occurs automatically under this subsection, the "shot clock" may be tolled by agreement with the applicant.~~

~~N. **Approval of Application.** Approvals shall be in writing and shall specify all design elements that are intended to conceal the wireless telecommunications facility.~~

~~O.~~A. ~~**Denial of Application.** Denials shall be in writing and shall specify the reasons for denial, including reference to substantial evidence in the record that supports the denial.~~

PART 5: MEASUREMENT, WORD USAGE, AND DEFINITIONS

Chapter 18.19 Measurements, Word Usage, and Definitions

Division 18.19.03 Definitions

Remove definition of "Stealth Telecommunications Tower" and other references throughout Code and add definition of "Alternative Tower Structure" to match Title 14

"Alternative Tower Structure" means man-made trees, clock towers, bell steeples, light poles, traffic signals, buildings, and similar alternative design mountain structures that are compatible with the natural setting and/or surrounding structures, and camouflage or conceal the presence of antennas or towers so as to make them architecturally compatible with the surrounding area pursuant to this chapter. This term also includes any antenna or antenna array attached to an alternative tower structure. A stand-alone monopole (including a replacement pole) in the ROW that accommodates small cell wireless facilities in considered an alternative tower structure to the extent it meets the camouflage and concealment standards of this chapter.

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13.12.200 Pole Attachments.

A. Definitions:

Assigned space means space on the poles that can be used, as defined in the Cc~~e~~ity's electric standards and all other standards adopted in Title 16, for the attachment or placement of wires, cables, ~~small cell facility,~~ and associated equipment for the provision of communications facilities ~~,~~ ~~small cell facility,~~ or electric service. The neutral zone or safety space is not considered assigned space.

Effective on: 1/1/1901

Attachments means each point of contact between licensee's communications facilities ~~or small cell facility~~ and the poles, whether placed directly on the poles or overlashed onto an existing attachment, but does not include a riser or a service drop attached to a single pole where licensee has an existing attachment on such pole. Attachment(s) shall include, without limitation, the following points of strain: down guys, main line attachments, and any other attachment that could shorten the life cycle of the pole.

Effective on: 1/1/1901

Capacity means the ability of a pole segment to accommodate an additional attachment based on applicable standards, including space and loading considerations.

Effective on: 1/1/1901

Climbing space means that portion of a pole's surface and surrounding space that is free from encumbrances to enable Cic~~i~~ity employees and contractors to safely climb, access, and work on Cc~~e~~ity facilities and equipment.

Effective on: 1/1/1901

Common space means space on the poles that is not used for the placement of wires or cables but which jointly benefits all users of the poles by supporting the underlying structure and/or providing safety clearance between attaching entities and electric utility facilities.

Effective on: 1/1/1901

Communications facilities means wire or cable facilities including, but not limited to, fiber optic, copper, and/or coaxial cables or wires utilized to provide communications service including any and all associated equipment. The term communications facilities does not include wireless antennas, small cell facilities, receivers, or transceivers.

Effective on: 1/1/1901

~~**Micro wireless facility** means a small wireless facility that is no larger in dimensions than twenty-four inches in length, fifteen inches in width, and twelve inches in height and that has an exterior antenna, if any, that is no more than eleven inches in length.~~

Effective on: 1/1/1901

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Overlash means to place an additional wire or cable communications facility onto an existing attachment owned by licensee.

Effective on: 1/1/1901

Pole means a pole owned by the Cc~~c~~ity used for the distribution of electricity and/or Communications Service that is capable of supporting attachments for communications facilities ~~or small cell facilities~~.

Effective on: 1/1/1901

~~**Small cell facility** means a wireless services facility that meets both of the following qualifications:~~

~~i. each antenna is located inside an enclosure of no more than three cubic feet in volume or, in the case of an antenna that has exposed elements, the antenna and all of its exposed elements could fit within an imaginary enclosure of no more than three cubic feet; and~~

~~ii. primary equipment enclosures are no larger than seventeen cubic feet in volume, excluding equipment located outside of the primary equipment enclosure. A small cell facility includes a micro wireless facility.~~

~~Effective on: 1/1/1901~~

B. Pole Attachments in general.

1. No one may attach communication facilities to a pole ~~or a small cell facility~~ without obtaining a license and permits for each pole. Unauthorized attachments shall be issued a penalty and shall come into compliance with this section.
2. All attachments to City-owned electrical facilities, poles or towers, must be licensed by the Water and Power Department. Applications for attachments in the right-of-way must be submitted to the Public Works Department for initial review. The Water and Power Department (hereafter "Department") will provide final review and issue the license and permits for each pole approved for an attachment.
3. Any modifications or additions necessary to make a pole ready for safe attachment will be the responsibility of the ~~applicant~~licensee, as well as all associated design and engineering or other costs. Licensee is responsible for payment for all work performed by the Cc~~c~~ity to accommodate the applicant's attachments.
4. The Cc~~c~~ity may refuse to issue a permit where safety concerns cannot be adequately addressed through engineering.
5. A permit is authorization for attachment to specific poles, one for each pole or overlash.
6. One license application may be submitted for multiple pole attachments.
7. The Cc~~c~~ity will issue a permit only when the Cc~~c~~ity determines, in its sole judgment, exercised reasonably, that the pole has sufficient capacity to accommodate the request safely.

C. Annual Fees

1. Fees shall be published in the Water and Power Rates, Fees, and Charges.

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2. Fees will be charged annually for all attachments. The Cc̶ity shall invoice annually for the attachment fee, for a period that shall conclude each December 31. All attachments shall comply with all applicable standards. Attachments, overlash, or other components shall not interfere with the operation of any Cc̶ity facilities. Any changes or work needed to safely attach to a pole is the responsibility of the applicant.

D. Permit Application Process

An applicant for any attachment to any Cc̶ity utility pole shall file a written application on forms furnished by the Cc̶ity.

1. An applicant for a license to attach to any poles or other power utility facility shall submit a written request to perform a pre-construction inspection. The request must include a preliminary route description and minimum design review information.
2. Following a pre-construction inspection, the applicant shall submit a completed permit application that includes route map, utility pole number(s), pole height and class, guy attachments, attachment height, number of inches below utility while maintaining clearance, span length for each attachment, inches sag, ground clearance, and recommendations on work required to allow the pole to safely support the attachment.
3. The application must include an affirmative statement that the applicant or its contractor is not delinquent in payments due the Cc̶ity on prior work.
4. The applicant must include or provide copies of all permits, licenses, or easements (including required insurance, deposits, bonding and warranties) required to do the proposed work and to work in the rights-of-way, if licenses or permits are required under the laws of the United States, the State of Colorado, any other political subdivision, or the ordinances or regulations of the Cc̶ity.
5. Applicants shall update any new information on permit applications within ten days after any material change occurs.
6. Applicants seeking multiple attachments may submit one application for a license and include permit applications for each pole or overlash. Applicants will receive permits for each pole or overlash approved for attachment deemed to be safe after any modifications or construction in accordance with standards adopted by the c̶City.
7. The Cc̶ity will review recommendations from the inspection and the application and discuss any issues or changes needed with the applicant.
8. Upon finalization of a written agreement, the Cc̶ity will work with the applicant to perform any work needed for installation.
9. The applicant's professional engineer or Cc̶ity-approved employee shall submit written certification that he/she completed a post-construction inspection and that the installation was done in accordance with the provisions of the permit.

E. Specifications

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1. When a permit is issued, the licensee ~~applicant~~ agrees to install and maintain attachments in accordance with all applicable standards and in accordance with a pole attachment agreement.
2. For any work not performed by the C~~c~~ity, ~~the applicant~~licensee shall comply with the insurance requirements set forth in Section 12.16.070.

F. Abandonment and Removal

1. At its sole expense, the holder of the license shall remove any of its attachments or any part thereof that becomes nonfunctional, creates a safety hazard, violates any provision of applicable law or violates the license holder's pole attachment agreement. ~~Removal shall occur~~Licensee shall remove such attachments or parts thereof within sixty days of written notification by the City that an attachment must be removed due to becoming nonfunctional or a safety hazard.
2. If the C~~c~~ity desires at any time to abandon, remove, or underground any utility facilities to which licensee's communications facilities ~~or small cell wireless facility~~ is attached, the C~~c~~ity shall provide licensee notice in writing at least sixty days prior to the date on which it intends to abandon or remove such facilities, and licensee shall remove its communications facilities ~~or small cell wireless facility~~ at its sole cost and expense within that time period. The ~~c~~City may grant an option to purchase the pole in its sole discretion.
3. Failure to pay the annual fee shall be considered abandonment. The C~~c~~ity shall issue a notice to remove the attachment(s) if such fee is more than sixty days past due.
4. Licensee may surrender any permit or license for attachment(s) and remove them from affected poles. Licensee must notify the ~~c~~City of the plan for removal, including the name of the party performing the work and dates and times when such work will be performed.
5. If licensee abandons communications facilities ~~or small cell wireless facility~~ or surrenders its license and fails to remove its attachments in the time frame set forth by the City, the C~~c~~ity shall have the right to remove licensee's attachments at licensee's expense.

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LOVELAND UTILITIES COMMISSION

AGENDA ITEM: 6
MEETING DATE: 6/19/2019
SUBMITTED BY: Roger Berg
STAFF TITLE: Water Utilities Manager

ITEM TITLE:

Supplemental Budget and Appropriation for Boise Avenue Land Acquisition

DESCRIPTION:

This item is seeking approval and recommendation to City Council of a Supplemental Budget and Appropriation in the amount of $875,000 for the acquisition of 9.1 acres of property located just north of the Loveland Wastewater Treatment Plant at 460 South Boise Avenue (see attachments).

SUMMARY:

The 9.1 acre parcel at 460 South Boise Avenue is located adjacent to and just north of the Loveland Waste Water Treatment Plant (WWTP). The property is in Larimer County, zoned FA (Farming), and currently has a modular home and outbuildings. A local developer recently had the property under contract with plans for 90 small residential homes (aka cottage homes). The proposal raised several concerns from the City's development review team, including the potential for complaints from future residents about WWTP odors. That developer has since backed out of the contract opening an opportunity for the City to purchase the property.

We currently have a contract on the property at full listing price of $850,000 that is contingent upon approval of this supplemental appropriation. The appropriation includes $25,000 for closing costs, conducting an environmental assessment, and other potential costs. Once acquired, we will record restrictive convenants on the property that will prevent large-scale residential development, then we will resell the property to recover a percentage of the cost. Possible uses include but are not limited to open space, one residential estate lot (with home placed on north side of property), light industrial such as landscape supply, nursery, or storage buildings. Upon closing, the current owner will have 60 days to remove all buildings, equipment, and vehicles.

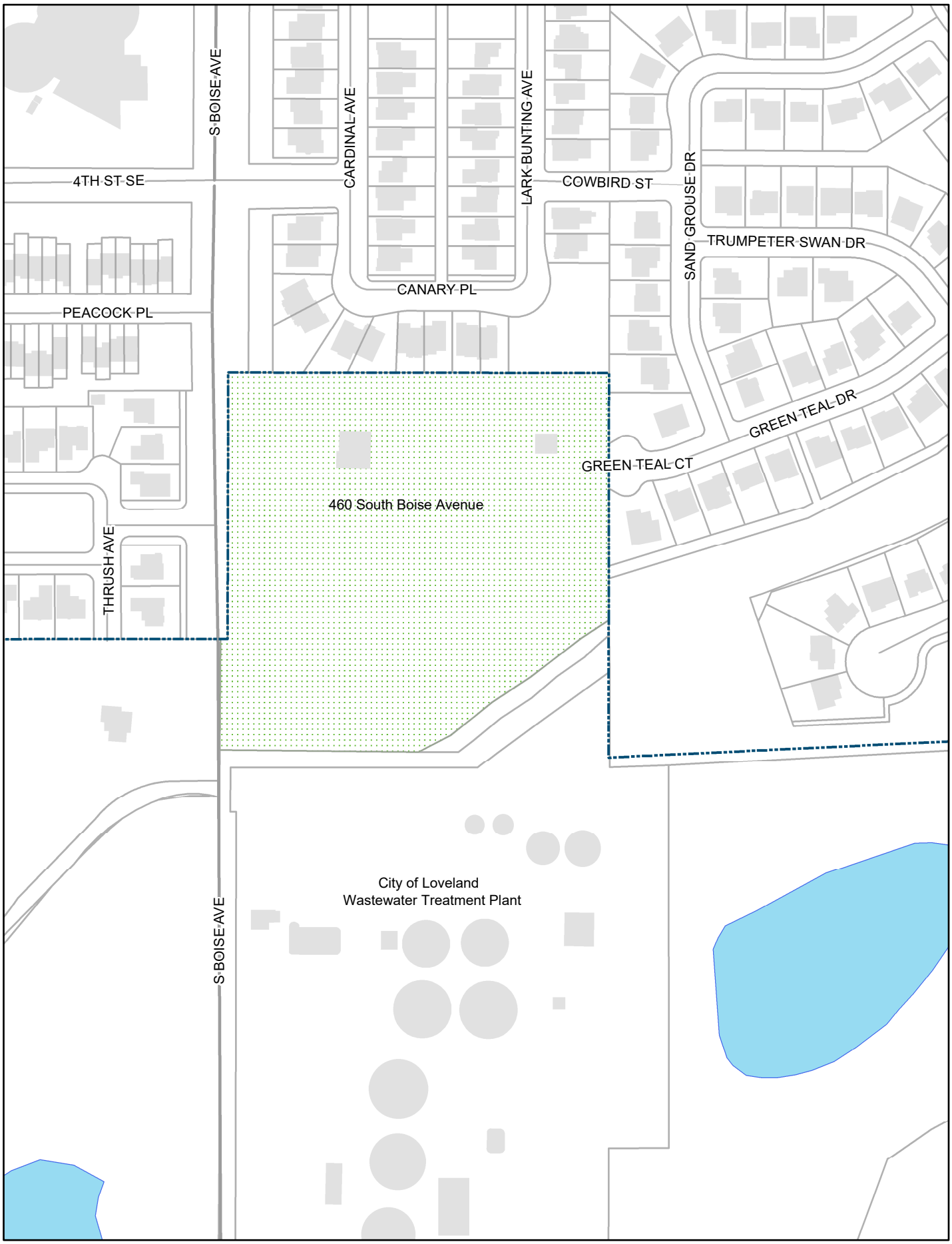
RECOMMENDATION:

Motion to approve and recommend that City Council adopt a Supplemental Budget and Appropriation in the amount of $875,000 to purchase the property at 460 South Boise Avenue.

ATTACHMENTS:

- Attachment A: Location Map
- Attachment B: Real Estate Brochure

Attachment A Proposed Purchase Site



Drafted: 6/13/2019 By: prichardson

LC REAL ESTATE commercial group

Attachment B

RESIDENTIAL DEVELOPMENT LAND FOR SALE OR LEASE

460 S. Boise Avenue, Loveland, CO

PROPERTY DETAILS

Parcel Size: 8.75 Acres

Zoning: FA (farming)

Taxes: $1,057 (2018)

Proposed Use:
- Single family
- Townhomes
- Mixed use
- R1 Zoning

RESIDENTIAL DEVELOPMENT LAND

SALE PRICE: $850,000

LEASE RATE: $800/ACRE/MONTH (APPROX 5.66 ACRES)

- Rare infill residential development opportunity in south Loveland
- Current land use designation allows for 4-5 units per gross acre with potential for higher density through city annexation and approval
- Includes 5 inches of original Chubbick Ditch (Loveland/Greeley irrigation)
- 3 bed / 2 bath modular home and 1,150 s.f. detached shop included in price to produce income while in development process
- City water, sewer and electric to site
- Great opportunity to capitalize on Northern Colorado's high demand for residential housing
- Possible usesfor lease include: Garden or Landscape supply; Greenhouse; Feedyard; Livestock facility; Sod farm; Tree farm; Storage buildings; Small Solar facility

DEMOGRAPHICS (Source: STDB Online 2019, radius)

	1 Mile	3 Mile	5 Mile
2018 Population	7,183	43,260	89,578
Avg. HH Income	$60,862	$76,013	$86,358
Households	2,873	18,157	36,097
Businesses	348	2,454	3,766
Employees	2,745	25,032	41,462

TRAFFIC COUNTS (Source: STDBOnline)

S. Boise Ave. @ W. 1st Street	16,000 VPD
Boise Ave. at CO Hwy 402	19,000 VPD

Jerico Devlin
Partner/Broker Associate
970-413-1182
rico@lcrealestategroup.com

Wayne Lewis
Partner/Broker Associate
303-588-8808
wayne@lcrealestategroup.com

The information above has been obtained from sources believed reliable but is not guaranteed. It is your responsibility to independently confirm its accuracy and completeness. 5/6/2019

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RESIDENTIAL DEVELOPMENT LAND FOR SALE OR LEASE

460 S. Boise Avenue, Loveland, CO

- Easy access from S. Boise Avenue
- Excellent southern views

- 3 bedroom/2 bath residence with fenced backyard and 1,150 s.f. shop included in sale
- Potential income producing during development

The information above has been obtained from sources believed reliable but is not guaranteed. It is your responsibility to independently confirm its accuracy and completeness. 5/6/2019

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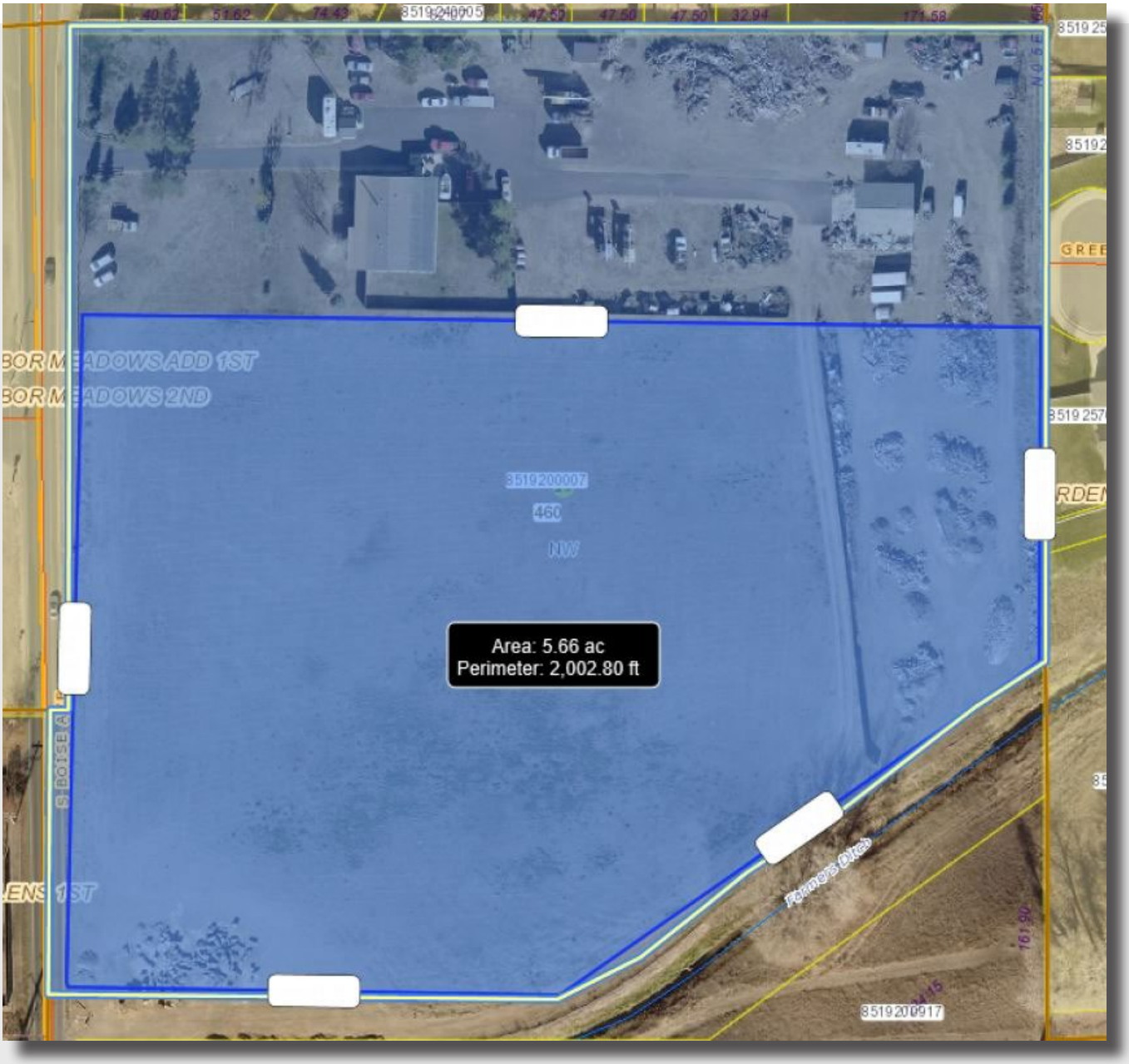
RESIDENTIAL DEVELOPMENT LAND FOR SALE OR LEASE

460 S. Boise Avenue, Loveland, CO



Approx. 5.66 leasable acres ideal for uses including:

- Garden or Landscape supply
- Greenhouse
- Feedyard
- Livestock facility
- Sod/tree farm
- Storage buildings
- Small solar facility

The information above has been obtained from sources believed reliable but is not guaranteed. It is your responsibility to independently confirm its accuracy and completeness. 5/6/2019

LOVELAND UTILITIES COMMISSION

AGENDA ITEM: 7
MEETING DATE: 6/19/2019
SUBMITTED BY: Jim Lees
STAFF TITLE: Utility Accounting Manager

ITEM TITLE:

2020 Proposed Budgets for Water, Wastewater and Power

DESCRIPTION:

The purpose of this is to ask the LUC to adopt a motion indicating support of the proposed 2020 Water and Power budget for City Council's consideration.

SUMMARY:

The 2020 Water & Power budget process is nearly complete, and the information is assembled and was submitted to the Budget Office on June 4, 2019. Attachment A is the 10-Year Financial Plans and Attachment B is the 10-Year Capital Plans for the three utilities. LUC members Larry Roos and Tom Vail participated in this year's budget review meetings, and we thank them for their time, interest and guidance. Today, the LUC will be briefed on the 2020 budget. Some of the highlights and challenges from this budget process are discussed below.

CHANGES IMPACTING ALL THREE UTILITIES

- **Staffing** – There is an increase of 4.0 full-time equivalent (FTE) positions proposed for 2020. The positions that are being proposed are:
  1) Pre-Apprentice Line Worker – Power Line Crews
  2) Journey Meter Technician – Power Metering
  3) Water Quality Technician – Water Quality
  4) Civil Engineer I – Water Engineering

  The addition of these positions will generate an increase in Personal Services expense of $407,000. The $407,000 increase breaks down as $100,000 for Water, $100,000 for Wastewater and $207,000 for Power.

  There also have been some deletions and scaling down of temporary positions for 2020, which will result in a decrease in Personal Services expense of approximately $155,000. The $155,000 decrease breaks down as a $46,000 decrease for Water, a $77,000 decrease for Wastewater and a $32,000 decrease for Power.

- **Salaries** – A 2.75% salary increase has been built in for 2020, which will generate an overall increase in Personal Services of $309,000. The $309,000 increase breaks down as a $103,000 increase for Water, a $79,000 increase for Wastewater and a $127,000 increase for Power.

- **Health Insurance Expense** – Health insurance expense is projected to increase by 2% in 2020, which generated a total increase in the W&P budget of $53,000. The breakdown by utility is that Water is up $19,000, Wastewater is up $13,000 and Power is up $21,000.

- **Reduction in Cost for the New Customer Information System (CIS) Software and Implementation** – The City's IT Department is in the process of implementing a software package to replace and upgrade the existing utility billing software, which is 32-years old. Based on a weighted allocation, the W&P Utilities are paying for 75% of this purchase. The 2019 budget for the purchase (the great majority of the purchase was budgeted in 2018) by utility is $116K each for Water and Wastewater and $279K for Power. Since these are purchasing and implementation expenses, they will not recur in 2020, therefore, they are reductions for 2020. Future year expenses for software maintenance and support will be charged to Water, Wastewater and Power via Cost Allocation expenses from IT.

- **Cost Allocation Expenses** – W&P's allocation of services rendered by other City departments is increasing significantly in 2020 for Power, and decreasing for Water and Wastewater. After a review with an outside consultant, a new methodology for allocating City department costs has been developed. In a nutshell, costs that were previously borne by the General Fund are now being covered by the City's utilities, including Storm Water and Solid Waste. The departments where the largest increases are seen include IT, Finance, the City Manager's Office and the City Attorney's Office, and a large decrease is seen in Facilities Management. The total increase in Cost Allocations is $120,000. The breakdown of the change by utility is that Water is down $93,000, Wastewater is down $72,000 and Power is up $285,000.

- **General Liability Expense** – General Liability expense is up $80,000 in 2020. General Liability is calculated partially based on the past five years of claims experience and 2018 was a high year for claims and 2013, the year that dropped, was lower. The breakdown by utility is that Water is up $44,000, Wastewater is up $21,000 and Power is up $15,000.

- **Transfers for Assets Funded by Multiple Utilities** – There is a large decrease in the amount of capital purchases for assets that are used by more than one utility in 2020 compared to 2019, and these changes in the costs were allocated between the utilities, with the great majority of the decrease being in Water. In total, 2020 is down from 2019 by $1.068 million, and Water's portion of the decrease is $1.204 million. The big driver in the Water decrease is the non-recurrence of Water's contribution toward the construction of a new Water Quality Lab. This contribution is budgeted in 2019 at $1.338 million. In addition, Wastewater is up $10,000 and Power is up $126,000.

- **Allocation of Salary Expense to Municipal Fiber** – There are some existing W&P staff (mostly from the Power Utility) that have a portion of their salaries for 2020 allocated to Municipal Fiber. This will bring about a corresponding decrease for Water, Wastewater and Power. The total decrease between the three utilities is $197,000. The breakdown by utility is that Water is down $22,000, Wastewater is down $4,000 and Power is down $171,000.

- **1% For the Arts** – This is an expense that is linked to the volume of capital activity, and this is up $91,000 from 2019. The breakdown by utility is that Water is up $61,000, Wastewater is down $7,000 and Power is up $37,000.

WATER

In accordance with the Water and Wastewater Enterprise Funding Resolution that was passed by City Council in November of 2018, there is a 7% rate increase proposed for Water in 2020. The 7% rate increase will be applied uniformly to all rate classes. The entirety of this increase will be to address aging infrastructure and operational needs.

In addition to the capital projects that are detailed in the Water 10-Year Capital Plan, key operating expense drivers (both increases and decreases) that are built into the 2020 budget include:

- **CBT Facilities Contract – Decrease of $200,000:** This highly variable line item is returning to more normal levels following increased costs of repairs due to the 2013 Flood.
- **CBT Assessment – Increase of $50,000:** CBT assessments for open-rated Class B and Section 131 units are expected to increase about $2/unit. Carryover costs also will increase proportionately and supplemental carryover will as well. The budgeted number has a 3% contingency for acquisition of additional units, or any unexpected costs.
- **Lawn Irrigation Return Flows (LIRFS) – Decrease of $100,000:** Case is anticipated to progress well in 2019, but will run well into 2020 or even 2021. Most of the major engineering expenses have been incurred in 2019. In 2020, we anticipate necessary legal and engineering expenses toward negotiation of the decree. If not resolved, it will be re-referred for trial, which would be in 2021.
- **Windy Gap Assessment – Increase of $100,000:** One of the components of this expense, the USBR charges, is going to be calculated in a different fashion going forward, and the result will be a dramatic increase. The USBR charge has been $7,043.75 per year for more than 30 years, but will be changing to be $34 per acre-foot starting in 2020.
- **Domestic Water Rights – Decrease of $85,000:** The case is not moving forward this year, but will be pursued in the future. We need to take a fresh look at this one.
- **Diligence Cases – Increase of $100,000:** The City has existing Water Court applications in four outstanding cases for exchanges and storage. On a rotating six-year basis, the court requires applicants to file a diligence application explaining the status of the case and progress being made. This requires engineering and legal input, which is what this estimate covers.
- **Water Quality Supplies and Services – Increase of $100,000:** Computer Supplies and Tools & Equipment are both increasing due to the purchase of new computer equipment and to replace and upgrade equipment and instrumentation to meet the needs of the new Water Quality Lab that will be coming online in mid-2020. Environmental Services, Professional Services and Other Services are all increasing to fund contracting of lab services and outsourcing of regulatory analysis that cannot be performed in-house while waiting for the new lab to become certified. More funding is also programmed in for increased studies of chlorine dioxide, disinfection by-product and Compounds of Emerging Concern.

CAPITAL

The capital program includes expenditures for 2020-2029 of $137 million for Water and Raw Water. The biggest components of the $137 million are: 1) $48 million of rehabilitation and replacement projects for the water distribution system; 2) $17 million for the construction of two new water storage tanks; and 3) $43 million for the construction of new water lines. The enclosed 10-Year Financial Projection and 10-Year Capital Plan contain more detailed information.

BEYOND 2020

In the 10-Year Financial Projection, the 7% rate increase for 2020 is followed by three consecutive rate

increases of 7% per year, capped off by six consecutive rate increases of 3.5% per year. This rate track is in accordance with the Council-approved Water and Wastewater Enterprise Funding Resolution from November of 2018. The current 10-year projection includes the assumption that existing customers (and new customers as they are added) will be using less water in the future on a per customer basis than they are using right now. It assumes, in fact, that customers will be using 0.5% less water per year, and that decrease will continue year after year. In looking at our per customer usage trending over the past 5 years, the 0.5% decrease per customer is what we are seeing and believe will continue. Looking at the 10-year window, the Unrestricted fund balance stays positive in comparison to the 18% - 33% of operating expenses target throughout the ten-year window. In February of 2019, City Council adopted a Fund Balance and Reserve Policy Resolution that said that Water, Wastewater and Power Unrestricted Funds must maintain a minimum reserve balance of 33% of operating expenses, and that this new increased target of 33% must be met by 2029. In the current Water 10-Year Financial Plan, the 33% target is met by 2022 and stays at that level or higher throughout the balance of the 10-year period. The Water Unrestricted Fund is supported by external loans in 2020, 2026 and 2027.

The bottom section of the 10 Year Financial Plan covers growth-related capital, which is funded by our System Impact Fees (SIF). The current 10-year projection shows the SIF balance staying positive throughout the ten-year timeframe. The SIF fund balance is supported by external loans in 2020, 2023-2025 and 2029. The Raw Water 10-Year Financial plan also maintains a positive balance throughout the 10-year window.

WASTEWATER

In accordance with the Water and Wastewater Enterprise Funding Resolution that was passed by City Council in November of 2018, there is a 7% rate increase proposed for Wastewater in 2020. The 7% increase will be primarily to address aging infrastructure and regulatory compliance.

In addition to the capital projects that are detailed in the Wastewater 10-Year Capital Plan, key operating expense drivers (both increases and decreases) that are built into the 2020 budget include:

- **Selenium Study at the Wastewater Treatment Plant (WWTP) – Decrease of $92,000:** There is $175,000 budgeted in 2019 for the first portion of a two or three-year study, and the expense in year two is expected to be much less than year one.
- **Parts and Supplies at the WWTP - Increase of $100,000:** The plant has several pieces of large, complex mechanical equipment that are at the end of their useful life (e.g. clarifier drives, influent pumps, aeration blowers) and need to be replaced.
- **Sludge Hauling at the WWTP – Increase of $62,000:** We are seeing an increase in the volume of solids coming out of the plant, as well as an 8.5% price increase from our sludge hauler.
- **Water Quality Supplies and Services – Increase of $48,000:** Computer Supplies and Tools & Equipment are both increasing due to the purchase of new computer equipment and to replace and upgrade equipment and instrumentation to meet the needs of the new Water Quality Lab that will be coming online in mid-2020. Environmental Services, Professional Services and Other Services are all increasing to fund contracting of lab services and outsourcing of regulatory analysis that cannot be performed in-house while waiting for the new lab to become certified.
- **Water Engineering: Updating of the Wastewater Utility Plan – $390,000:** The Wastewater Utility Plan is updated approximately every 10 years and is necessary due to changes at the WWTP and in the wastewater collection system. This document is required by the regional 208 planning agency prior to reviewing any new site applications. With recent changes, this is necessary to be updated.
- **Water Operations: Clean Two Sewer Interceptors – $300,000:** This is to address two major sewer lines from US 287 to the WWTP. These two lines have a buildup of sediment and will need to be cleaned by a contractor to restore flow through the lines.

- **Non-recurrence of Internal Loan Payment to Wastewater SIF Fund – Decrease of $1,000,000:** A short-term internal loan from the Wastewater Unrestricted Fund to the Wastewater SIF Fund was slated for 2019. The loan is to help fund growth-related capital projects and was scheduled to be paid back in 2023. From how things are looking now, it appears that this loan will not be necessary. Since it is not recurring in 2020, a $1,000,000 reduction in budget is the result.

CAPITAL

The capital program includes expenditures for 2020-2029 of $82 million for Wastewater. The biggest components of the $82 million are: 1) $28 million for rehabilitation of wastewater lines; 2) $26 million for construction of new wastewater lines, which includes $16 for construction of a line extension to State Highway 402 and I-25; and 3) $17 million for improvements at the WWTP. The enclosed 10-Year Financial Projection and 10-Year Capital Plan contain more detailed information.

BEYOND 2020

In the 10-Year Financial Projection, there is a 7% rate increase proposed for 2020, and that is followed by three consecutive rate increases of 7% per year, capped off by six consecutive years of 3.5% rate increases per year. This rate track is in accordance with the Council-approved Water and Wastewater Enterprise Funding Resolution from November of 2018. Looking at the 10-year window, the Unrestricted fund balance stays positive in comparison to the 18% - 33% of operating expenses target throughout the ten-year period. In February of 2019, City Council adopted a Fund Balance and Reserve Policy Resolution that said that Water, Wastewater and Power Unrestricted Funds must maintain a minimum reserve balance of 33% of operating expenses, and that this new increased target of 33% must be met by 2029. In the current Wastewater 10-Year Financial Plan, the 33% target is met by 2019 and stays at that level or higher throughout the balance of the 10-year period. The Wastewater Unrestricted Fund is supported by a $2 million loan in 2022.

The bottom section of the 10-Year Financial Plan covers growth-related capital, which is funded by our System Impact Fees (SIF). The current Wastewater 10 Year Financial Projection shows the SIF balance stays positive throughout the 10-year period. The SIF fund balance is buoyed by external loans in 2022, 2024 and 2026.

POWER

A 5% overall rate increase is currently proposed for the Power Utility in 2020. **(NOTE: This rate increase is subject to change pending the outcome of the cost-of-service rate study.)** PRPA is planning on a 1.0% overall wholesale power rate increase in 2020, which, when passed through to customers, generates a 0.81% retail rate increase. In addition, Staff is recommending a 4.19% increase. This additional 4.19% increase is to help offset the combined impact of the increased costs for the new CIS software and implementation and Cost Allocations that were discussed earlier.and to address additional capital needs. So, the entire proposed rate increase for 2020 is 0.81%+4.19%=5%. The 1.0% wholesale rate increase is a figure that is subject to change by the PRPA Board – the proposed increase will be presented to the Board at their August meeting, then formally presented for the Board's action at their December meeting.

In addition to the capital projects that are detailed in the Power 10-Year Capital Plan, key operating expense drivers (both increases and decreases) for 2020 are:

- **Big T Canyon Post-Flood Restoration Work – Decrease of $800,000:** It is anticipated that the majority of the contracts to complete the restoration work resulting from the removal of the hydro generating facility and associated pipeline and trestles will be awarded in 2019, leaving $500,000 budgeted for wrap-up in 2020.

- **Non-recurrence of Replacing 17 Handheld Radios and Charging Stations for the Power Line Crews – Decrease of $55,000:** These radios were more than 20 years old and many of the parts are obsolete, so this purchase will be completed in 2019 and will not recur in 2020.
- **Utility Application Services: Software Maintenance and Support – Increase of $90,000:** Harris Smartworks software has been purchased as the engine for our new Meter Data Management (MDM) system for electric meters, and $90,000 is the estimated annual cost for software maintenance and support.
- **Non-recurrence of Power Cost-of-Service Rate Study – Decrease of $60,000:** 2019 was the time for our every-three-year cost-of-service rate study for Power, and this expense will not recur in 2020.

CAPITAL

The capital program includes expenditures for 2020-2029 of $173 million for Power. The biggest components of the $173 million are: 1) $49 million of rehabilitation, replacement and reliability-driven (R,R & R) system improvement projects; 2) $23 million for developer-requested new construction; 3) $17 million for extension of new feeders; 4) $19 million for expenditures associated with overhead to underground conversions; and 5) $19 million for completing the construction of a new substation and adding to existing substation capacity. The enclosed 10-Year Financial Projection and 10-Year Capital Plan contain more detailed information.

BEYOND 2020

Following 2020, the Power 10-Year Financial Projection is showing a rate increase of 3% in 2021, then 8 consecutive years of 2% per year. The 3% rate increase for 2021 is consistent with the rate track that was supported by City Council at their Study Session held on August 30, 2016. Following the 1% wholesale increase in 2020, PRPA is projecting 5 years of wholesale power rate increases at 2.0% per year followed by 4 years of 1.7% per year. The primary drivers behind these projected wholesale rate increases are:

- Increased Purchase Power expense
- Staffing and inflation
- New debt financings for capital additions
- Increased investment in demand side management

These wholesale rate increases from PRPA have been taken into account in the retail rate increases for the 10-Year Financial Projection.

Looking at the 10-year window, the Unrestricted fund balance stays positive in comparison to the 18% - 33% of operating expenses target throughout the ten-year period. In February of 2019, City Council adopted a Fund Balance and Reserve Policy Resolution that said that Water, Wastewater and Power Unrestricted Funds must maintain a minimum reserve balance of 33% of operating expenses, and that this new increased target of 33% must be met by 2029. In the current Power 10-Year Financial Plan, the 33% target is met by 2025 and stays at that level or higher throughout the balance of the 10-year period.

The bottom section of the 10 Year Plan covers growth-related capital, which, for Power, is funded by our Plant Investment Fees (PIF). The PIF fund balance stays positive throughout the 10-year window, as well. The PIF fund balance is supported by an external loan of $5.2 million in 2024.

Commission members are encouraged to make any comments or ask questions at the meeting.

RECOMMENDATION:

Adopt a motion indicating support for the proposed 2020 Water and Power budget for City Council's consideration.

ATTACHMENTS:

- Attachment A: 10-Year Financial Plans for Raw Water, Water, Wastewater and Power
- Attachment B: 10-Year Capital Improvement Plans for Water, Wastewater and Power

Attachment A

LOVELAND WATER AND POWER
RAW WATER FUNDING
FINANCIAL FORECAST
2020-2029

			3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%		A	% of Water Sales Transferred to Raw Water Fund
			1.55%	1.65%	1.65%	1.75%	1.75%	1.85%	1.85%	1.95%	1.75%	1.65%		C	Interest on Investments
			0.00%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%		D	Inflation Rate on Water & Wastewater Specific Projects
			1.43%	1.00%	2.84%	1.73%	1.69%	1.66%	1.62%	1.57%	1.47%	1.44%		E	Growth from New Development
			7.00%	7.00%	7.00%	7.00%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%		F	Water Sales Rate Increase
			-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%		G	Usage Increase / (Decrease) Per Customer
			7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%		H	Payment in Lieu of Taxes (PILT)
			3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%		I	General Inflation Rate

	Prelim 2018	Budget 2019	Forecast 2019	Budget 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	2020 to 2029 Total	A	B	C	D	E	F	G	H	I
BEGINNING BALANCE	**$25,472,932**	**$26,656,484**	**$26,656,484**	**$6,590,587**	**$4,495,821**	**$4,143,992**	**$3,356,696**	**$2,553,427**	**$2,385,014**	**$2,332,970**	**$2,339,016**	**$2,407,537**	**$2,532,437**	**$6,590,587**									
Revenue Transfer from Water Rates	$502,210	$531,164	$531,164	$580,158	$623,670	$681,920	$738,040	$772,660	$808,660	$846,020	$884,690	$924,230	$965,270	$7,825,318									
Hi-Use Surcharge	94,812	73,118	73,118	88,561	89,450	91,990	93,580	95,160	96,740	98,310	99,850	101,320	102,780	957,741					Y				
Raw Water Devlpmt Fees/Cap Rec Srchg	442,293	484,187	484,187	435,333	329,765	339,130	368,997	375,233	381,462	387,642	393,728	399,515	405,269	3,816,074					Y				
Cash-in-Lieu	506,459	227,167	227,167	380,587	384,390	395,310	402,150	408,950	415,740	422,470	429,100	435,410	441,680	4,115,787					Y				
Native Raw Water Storage Fees Received	394,889	196,876	196,876	407,355	411,430	423,110	430,430	437,700	444,970	452,180	459,280	466,030	472,740	4,405,225					Y				
Transfer from General Funds	0	1,026	1,026	0	0	0	0	0	0	0	0	0	0	0									
Water Loan Payments Received	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Interest on Investments	404,014	300,965	300,965	51,075	74,180	68,380	58,740	44,680	44,120	43,160	45,610	42,130	41,790	513,865			Y						
External Loan Received - 30 years at %	0	27,880,000	27,880,000	4,500,000	0	0	0	0	0	0	0	0	0	4,500,000									
External Loan Received - CWCB 30 years at %	0	9,680,000	9,680,000		0	0	0	0	0	0	0	0	0	0									
Total Revenues	**$2,344,677**	**$39,374,503**	**$39,374,503**	**$6,443,068**	**$1,912,885**	**$1,999,840**	**$2,091,937**	**$2,134,383**	**$2,191,692**	**$2,249,782**	**$2,312,258**	**$2,368,635**	**$2,429,529**	**$26,134,008**									
Operating Expenses																							
Windy Gap Annual Administration Fee	7,044	7,100	7,100	7,100	7,100	7,100	7,100	7,100	7,100	7,100	7,100	7,100	7,100	71,000									
External Loan Payment - Joint Financing	0	0	0	1,495,054	1,736,364	1,736,364	1,736,364	1,736,364	1,736,364	1,736,364	1,736,364	1,736,364	1,736,364	17,122,330									
External Loan Payment - CWCB	0	0	0	0	0	500,272	500,272	500,272	500,272	500,272	500,272	500,272	500,272	4,002,176									
TOTAL OPERATING EXPENSES (excl depn)	**$7,044**	**$7,100**	**$7,100**	**$1,502,154**	**$1,743,464**	**$2,243,736**	**$2,243,736**	**$2,243,736**	**$2,243,736**	**$2,243,736**	**$2,243,736**	**$2,243,736**	**$2,243,736**	**$21,195,506**									
NET OPERATING REVENUE/(LOSS) (excl depn)	**$2,337,633**	**$39,367,403**	**$39,367,403**	**$4,940,914**	**$169,421**	**($243,896)**	**($151,799)**	**($109,353)**	**($52,044)**	**$6,046**	**$68,522**	**$124,899**	**$185,793**	**$4,938,502**									
FOOTNOTE: Depreciation Expense	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0										
Capital Expenditures																							
Low Flow Reservoir Release (re-appropriation)	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Windy Gap Firming (W038AA)	(1,028,484)	(55,560,000)	(55,560,000)	(4,356,080)	0	0	0	0	0	0	0	0	0	(4,356,080)				Y					
Future Water Court Transfer Actions	0	(100,000)	(304,900)	(100,000)	0	0	0	0	0	0	0	0	0	(100,000)				Y					
Change of Heikes Water				0	0	0	(84,970)	(59,060)	0	0	0	0	0	(144,030)									
Purchase CBT Water	0	0	0	(500,000)	(521,250)	(543,400)	(566,500)	0	0	0	0	0	0	(2,131,150)				Y					
Downstreat Storage	0	0	(3,411,400)	0	0	0	0	0	0	0	0	0	0	0									
Downstream Storage - Armoring Construct	(125,597)	(125,000)	(125,000)	(434,600)	0	0	0	0	0	0	0	0	0	(434,600)				Y					
Downstream Storage - Phase 2 Design/SDC				0	0	0	0	0	0	0	0	0	(872,640)	(872,640)									
Downstream Storage - Phase 3 Construct	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
GRGR 18" Bypass Pipe Connections Design/SDC	0	(32,000)	(32,000)	(120,000)	0	0	0	0	0	0	0	0	0	(120,000)				Y					
GRGR 18" Bypass Pipe Connections Construct	0	0	0	(1,500,000)	0	0	0	0	0	0	0	0	0	(1,500,000)									
Great Western Pond #3 Water Rights Filing	0	0	0	(25,000)	0	0	0	0	0	0	0	0	0	(25,000)									
Total Capital Expenditures	($1,154,081)	($55,817,000)	($59,433,300)	($7,035,680)	($521,250)	($543,400)	($651,470)	($59,060)	$0	$0	$0	$0	($872,640)	($9,683,500)									
Ending Balance Raw Water	**$26,656,484**	**$10,206,887**	**$6,590,587**	**$4,495,821**	**$4,143,992**	**$3,356,696**	**$2,553,427**	**$2,385,014**	**$2,332,970**	**$2,339,016**	**$2,407,537**	**$2,532,437**	**$1,845,589**	**$1,845,589**									

Water 10 Year - City Version

LOVELAND WATER AND POWER
WATER UTILITY
FINANCIAL FORECAST
2020-2029

				3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%		A	% of Water Sales Transferred to Raw Water Fund
				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		B	Future Raw Water Prj's % growth/year
				1.55%	1.65%	1.65%	1.75%	1.75%	1.85%	1.85%	1.95%	1.75%	1.65%			C	Interest on Investments
				0.00%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%			D	Inflation Rate on Water & Wastewater Specific Projects
				1.43%	1.00%	2.84%	1.73%	1.69%	1.66%	1.62%	1.57%	1.47%	1.44%			E	Growth from New Development
				7.00%	7.00%	7.00%	7.00%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%			F	Water Sales Rate Increase
				-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%			G	Usage Increase / (Decrease) Per Customer
				7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%			H	Payment in Lieu of Taxes (PILT)
				3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%			I	General Inflation Rate
26,710	26,404	26,404	27,310	27,583	28,366	28,857	29,345	29,832	30,315	30,791	31,244	31,694			J	Number of Customers (billed meters)

	Prelim 2018	Budget 2019	Forecast 2019	Budget 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	2020 to 2029 Total	A	B	C	D	E	F	G	H	I	J
Unrestricted Funds																								
BEG'G WORKING CASH BALANCE:	**$6,784,654**	**$9,161,826**	**$9,161,826**	**$3,951,317**	**$4,250,472**	**$5,346,461**	**$5,906,001**	**$6,930,080**	**$9,685,815**	**$10,858,841**	**$12,075,592**	**$12,380,017**	**$13,937,540**	**$3,951,317**										
REVENUES & SOURCES:																								
Water Sales	$16,740,304	$17,705,445	17,705,445	19,338,584	$20,788,980	$22,730,670	$24,601,400	$25,755,210	$26,955,400	$28,200,740	$29,489,510	$30,807,690	$32,175,550	$260,843,734					Y	Y	Y			
Water Sales Transferred to Raw Water Fund	(502,210)	(531,160)	(531,160)	(580,158)	(623,670)	(681,920)	(738,040)	(772,660)	(808,660)	(846,020)	(884,690)	(924,230)	(965,270)	(7,825,318)	Y									
Wholesale Sales	242,065	181,090	181,090	194,527	196,470	202,050	205,550	209,020	212,490	215,930	219,320	222,540	225,740	2,103,637					Y					
Meter Sales	85,854	92,269	92,269	91,520	96,320	103,150	109,320	115,810	122,650	129,850	137,410	145,270	153,540	1,204,840				Y	Y					
Hydrant Rental	173,219	117,083	117,083	146,637	158,370	173,950	189,140	198,960	209,230	219,940	231,090	242,580	254,560	2,024,457					Y	Y				
Other revenues	814,080	432,703	1,000,801	558,810	384,470	422,300	459,170	483,000	507,920	533,930	561,000	588,880	617,970	5,117,450					Y	Y				
Interest on investments	41,494	120,220	120,220	61,250	70,130	88,220	103,360	121,280	179,190	200,890	235,470	216,650	229,970	1,506,410			Y							
Federal & State Grants	79,318	0	0	0	0	0	0	0	0	0	0	0	0	0										
External Loan - Water Tank & Pump Station	0	0	0	2,500,000	0	0	0	0	0	0	0	0	0	2,500,000										
External Loan - Transmission Line	0	0	0	0	0	0	0	0	0	0	4,000,000	0	0	4,000,000										
External Loan - Service Center Expansion	0	0	0	0	0	0	0	0	0	3,000,000	0	0	0	3,000,000										
General Fund Contribution	750,000	0	0	750,000	750,000	750,000	0	0	0	0	0	0	0	2,250,000										
TOTAL REVENUES	**$18,424,123**	**$18,117,650**	**$18,685,748**	**$23,061,170**	**$21,821,070**	**$23,788,420**	**$24,929,900**	**$26,110,620**	**$27,378,220**	**$31,655,260**	**$33,989,110**	**$31,299,380**	**$32,692,060**	**$276,725,210**										
OPERATING EXPENSES:																								
Source of Supply	1,784,365	$2,580,040	$2,666,320	2,315,390	2,396,430	2,480,310	2,567,120	2,656,970	2,749,960	2,846,210	2,945,830	3,048,930	3,155,640	27,162,790										Y
Treatment	3,254,697	3,798,759	3,798,759	4,208,338	4,397,710	4,676,520	4,921,100	5,176,510	5,443,620	5,722,330	6,012,450	6,311,270	6,623,050	53,492,898					Y					Y
Treatment O&M Projects & Rollovers	0	0	44,911	0	156,380	0	0	0	123,130	0	0	0	0	279,510				Y						
Distribution oper. & maint.	3,311,250	3,992,153	3,992,153	4,253,631	4,445,040	4,726,860	4,974,070	5,232,220	5,502,200	5,783,910	6,077,150	6,379,180	6,694,310	54,068,571					Y					Y
Distribution O&M Projects & Rollovers	0	0	73,055	0	78,190	0	0	0	0	930,670	0	0	0	1,008,860				Y						
Customer Relations	298,869	389,550	389,550	433,756	448,940	464,650	480,910	497,740	515,160	533,190	551,850	571,160	591,150	5,088,506										Y
Customer Relations O&M Projects & Rollovers	0	0	9,575	9,000	0	0	0	0	0	0	0	0	0	9,000										
Administrative	612,949	589,999	589,999	560,283	579,890	600,190	621,200	642,940	665,440	688,730	712,840	737,790	763,610	6,572,913										Y
Administrative O&M Projects	$0	1,239,441	2,200,509	312,710	52,130	0	0	59,060	0	0	66,910	0	0	490,810										
Workers Comp & Gen'l Liability	185,590	289,470	289,470	329,000	340,520	352,440	364,780	377,550	390,760	404,440	418,600	433,250	448,410	3,859,750										Y
1% for Arts Transfer	16,795	18,820	76,788	45,200	23,978	48,689	48,719	34,253	53,145	75,031	100,368	54,409	97,445	581,236										
Internal Loan Payment (incl's interest)	795,300	783,750	783,750	772,500	761,250	0	0	0	0	0	0	0	0	1,533,750										
External Loan Payment (incl's interest)	1,062,638	1,015,685	1,015,685	1,015,593	1,014,885	1,013,527	1,011,542	1,013,929	1,010,529	1,011,502	1,011,687	1,016,074	1,014,536	10,133,804										
Ext Loan Payment - Water Tank& Pump Station	0	0	0	0	147,206	147,206	147,206	147,206	147,206	147,206	147,206	147,206	147,206	1,324,854										
Ext Loan Payment- Line Replacements	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
Ext Loan Payment - Transmission Line	0	0	0	0	0	0	0	0	0	0	0	231,325	231,325	462,650										
Ext Loan Payment - Service Center Expansion	0	0	0	0	0	0	0	0	0	0	173,494	173,494	173,494	520,481										
Payment in-lieu-of taxes PILT (7% of Water Sales)	1,136,667	1,202,200	1,202,200	1,313,090	1,411,570	1,543,410	1,670,440	1,748,780	1,830,270	1,914,830	2,002,340	2,091,840	2,184,720	17,711,290								Y		
Services rendered-other depts.	1,483,176	1,240,823	1,240,823	1,147,545	1,187,710	1,229,280	1,272,300	1,316,830	1,362,920	1,410,620	1,459,990	1,511,090	1,563,980	13,462,265										Y
TOTAL OPERATING EXP'S (excl depn)	**13,942,296**	**$17,140,691**	**$18,373,549**	**$16,716,035**	**$17,441,829**	**$17,283,082**	**$18,079,387**	**$18,903,988**	**$19,794,340**	**$21,468,669**	**$21,680,715**	**$22,707,018**	**$23,688,876**	**$197,763,938**										
NET OPERAT'G REV/(LOSS) (excl depn)	**4,481,827**	**$976,958**	**$312,199**	**$6,345,135**	**$4,379,241**	**$6,505,338**	**$6,850,513**	**$7,206,632**	**$7,583,880**	**$10,186,591**	**$12,308,395**	**$8,592,362**	**$9,003,184**	**$78,961,272**										
FOOTNOTE: Depreciation Expense	4,096,998	$4,240,393	$4,240,393	$4,388,807	$4,542,415	$4,701,399	$4,865,948	$5,036,257	$5,212,526	$5,394,964	$5,583,788	$5,779,220	$5,981,493	$51,486,817										
CAPITAL EXPENDITURES	2,104,655	3,019,250	5,522,708	$6,045,980	$3,283,252	$5,945,798	$5,826,434	$4,450,897	$6,410,854	$8,969,840	$12,003,970	$7,034,840	$11,177,084	$71,148,949				Y						
NET CHANGE IN WRK'G CASH BAL	2,377,172	($2,042,292)	($5,210,509)	$299,155	$1,095,989	$559,540	$1,024,079	$2,755,735	$1,173,026	$1,216,751	$304,425	$1,557,522	($2,173,900)	$7,812,323										
(Net Oper Rev/(Loss) less Cap Exp)																								
ENDING WORKING CASH BALANCE	**$9,161,826**	**$7,119,534**	**$3,951,317**	**$4,250,472**	**$5,346,461**	**$5,906,001**	**$6,930,080**	**$9,685,815**	**$10,858,841**	**$12,075,592**	**$12,380,017**	**$13,937,540**	**$11,763,640**	**$11,763,640**										
	18%	**18%**	**18%**	**18%**	**21%**	**21%**	**23%**	**25%**	**27%**	**29%**	**31%**	**33%**	**33%**										
Desired Balance (15% to 33% of Operat'g Exp's)	2,509,613	3,085,324	3,307,239	3,008,886	3,662,784	3,629,447	4,158,259	4,725,997	5,344,472	6,225,914	6,721,022	7,493,316	7,817,329											
Fav/(Unfav) to Desired Balance	$6,652,213	$4,034,210	$644,078	$1,241,585	$1,683,677	$2,276,553	$2,771,821	$4,959,818	$5,514,369	$5,849,678	$5,658,996	$6,444,224	$3,946,311											

LOVELAND WATER AND POWER
WATER UTILITY
FINANCIAL FORECAST
2020-2029

				3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%		A	% of Water Sales Transferred to Raw Water Fund
				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		B	Future Raw Water Prj's % growth/year
				1.55%	1.65%	1.65%	1.75%	1.75%	1.85%	1.85%	1.95%	1.75%	1.65%	1.65%		C	Interest on Investments
				0.00%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%		D	Inflation Rate on Water & Wastewater Specific Projects
				1.43%	1.00%	2.84%	1.73%	1.69%	1.66%	1.62%	1.57%	1.47%	1.44%			E	Growth from New Development
				7.00%	7.00%	7.00%	7.00%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%		F	Water Sales Rate Increase
				-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%		G	Usage Increase / (Decrease) Per Customer
				7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%		H	Payment in Lieu of Taxes (PILT)
				3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%		I	General Inflation Rate
26,710	26,404	26,404	27,310	27,583	28,366	28,857	29,345	29,832	30,315	30,791	31,244	31,694		J	Number of Customers (billed meters)

	Prelim 2018	Budget 2019	Forecast 2019	Budget 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	2020 to 2029 Total	A	B	C	D	E	F	G	H	I	J
Restricted Funds (SIF)																								
BEG'G BALANCE-SYS IMPACT FEES	**$3,149,824**	**$3,206,630**	**$3,206,630**	**$2,709,857**	**$1,149,184**	**$2,199,434**	**$3,048,170**	**$3,038,564**	**$4,897,482**	**$3,648,254**	**$2,548,613**	**$4,820,586**	**$5,498,211**	**$2,709,857**										
SIF REVENUES																								
SIF Collections	2,545,285	2,560,616	2,560,616	2,080,163	1,539,542	4,348,730	2,818,478	2,919,508	3,037,070	3,145,762	3,222,793	3,066,965	3,045,716	29,224,727				Y	Y					
SIF Collections - 402	0	0	0	0	0	0	0	0	335,682	349,949	364,821	380,326	396,490	1,827,268										
Capital Recovery Surcharge	127,840	115,597	115,597	118,365	117,770	117,180	116,590	116,010	115,430	114,850	114,280	113,710	113,140	1,157,325							G			
Developer Reimbursements	16,657	0	0	0	0	0	0	0	0	0	0	0	0	0										
Developer ATC	0	3,056,400	3,056,400	0	0	0	0	0	0	0	0	0	0	0										
SIF Interest Income	68,304	37,710	37,710	42,000	18,960	36,290	53,340	53,170	90,600	67,490	49,700	84,360	90,720	586,630			Y							
Federal & State Grants	75,804	0	0	0	0	0	0	0	0	0	0	0	0	0										
External Loan - Water Tank #2 29th St	0	0	0	4,000,000	0	0	0	0	0	0	0	0	0	4,000,000										
External Loan - Water Tank #2 43rd St	0	0	0	0	0	0	0	0	3,000,000	0	0	0	0	3,000,000										
External Loan - East Gravity Zone	0	0	0	0	0	0	5,000,000	0	0	0	0	0	0	5,000,000										
External Loan - East Gravity Zone	0	0	0	0	0	0	0	0	0	0	0	0	8,000,000	8,000,000										
External Loan - 402	0	0	0	0	0	0	0	11,700,000	0	0	0	0	0	11,700,000										
Transfers In	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
TOTAL SIF REVENUES	**$2,833,889**	**$5,770,324**	**$5,770,324**	**$6,240,528**	**$1,676,272**	**$4,502,200**	**$7,988,408**	**$14,788,688**	**$6,578,782**	**$3,678,051**	**$3,751,594**	**$3,645,362**	**$11,646,066**	**$64,495,950**										
SIF CAPITAL AND EXPENSES:																								
SIF Capital Expenditures	2,734,420	4,368,550	5,874,420	7,731,400	394,698	3,398,012	7,705,506	12,300,623	6,582,436	3,385,840	120,440	1,604,370	13,053,256	$56,276,581				Y						
SIF 1% for Arts Transfer	24,778	34,800	40,372	69,800	0	24,127	61,182	108,666	59,893	32,670	0	4,185	110,535	$471,058										
Administrative O&M Projects	0	334,375	352,305	0	0	0	0	0	0	0	0	0	0	$0										
External Loan Pymt - Water Tank #2 29th St	0	0	0	0	231,325	231,325	231,325	231,325	231,325	231,325	231,325	231,325	231,325	$2,081,925										
External Loan Pymt - Water Tank #2 43rd St	0	0	0	0	0	0	0	0	0	173,500	173,500	173,500	173,500	$694,000										
External Loan Pymt - East Gravity Zone	0	0	0	0	0	0	0	289,156	289,156	289,156	289,156	289,156	289,156	$1,734,938										
External Loan Pymt - East Gravity Zone	0	0	0	0	0	0	0	0	0	0	0	0	0	$0										
External Loan Pymt - 402	0	0	0	0	0	0	0	0	665,200	665,200	665,200	665,200	665,200	$3,326,000										
Legal Agreements & Settlements	17,885	0	0	0	0	0	0	0	0	0	0	0	0	$0										
TOTAL SIF CAPITAL & EXPENSES	2,777,083	4,737,725	6,267,097	7,801,200	626,023	3,653,464	7,998,013	12,929,770	7,828,010	4,777,691	1,479,621	2,967,736	14,522,972	**$64,584,502**										
END'G CASH BAL - SIF	**$3,206,630**	**$4,239,228**	**$2,709,857**	**$1,149,184**	**$2,199,434**	**$3,048,170**	**$3,038,564**	**$4,897,482**	**$3,648,254**	**$2,548,613**	**$4,820,586**	**$5,498,211**	**$2,621,305**	**$2,621,305**										
TOTAL AVAILABLE FUNDS	**$12,368,456**	**$11,358,763**	**$6,661,174**	**$5,399,656**	**$7,545,895**	**$8,954,171**	**$9,968,644**	**$14,583,297**	**$14,507,094**	**$14,624,205**	**$17,200,603**	**$19,435,751**	**$14,384,945**	**$14,384,945**										

2020 Wastewater 10 Year Budget - City Version

LOVELAND WATER AND POWER
WASTEWATER UTILITY
FINANCIAL FORECAST - 10 Year Plan
2020 - 2029
City

				2.18%	2.28%	2.28%	2.38%	2.38%	2.48%	2.48%	2.58%	2.38%	2.28%		A Interest on Investments
				0.00%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%		B Inflation Rate on Water & Wastewtr Specific Projects
				1.43%	1.00%	2.84%	1.73%	1.69%	1.66%	1.62%	1.57%	1.47%	1.44%		C Growth from New Development
				7.00%	7.00%	7.00%	7.00%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%		D Wastewater Sales Rate Increase
				-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%		E Usage Increase / (Decrease) Per Customer
				7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%		F Payment in Lieu of Taxes (PILT)
				3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%		G General Inflation Rate
				35,651	36,010	37,030	37,670	38,310	38,950	39,580	40,200	40,790	41,380		H Wastewater Customers

	Preliminary Final 2018	Adopted Budget 2019	Forecast (incl Rollovers) 2019	Projected Budget 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	2020 to 2029 Total	A	B	C	D	E	F	G	H
Unrestricted Funds																						
BEGINNING WRK'G CASH BAL:	**$11,499,231**	**$13,759,431**	**$13,759,431**	**$6,082,085**	**$5,074,876**	**$7,300,271**	**$5,593,945**	**$8,665,472**	**$10,699,337**	**$13,714,444**	**$12,497,093**	**$16,247,915**	**$19,775,621**									
REVENUES & SOURCES:																						
Wastewater Sales	12,542,108	$13,584,361	$13,584,361	14,767,312	$15,874,860	$17,357,570	$18,786,100	$19,667,170	$20,583,660	$21,534,630	$22,518,760	$23,525,350	$24,569,880	$199,185,292			Y	Y	Y			
Hi Strength Surcharge	524,449	427,327	427,327	468,882	471,230	482,260	488,190	494,000	499,730	505,330	510,740	515,690	520,540	$4,956,592			Y		Y			
Interest on investments	188,096	38,862	38,862	39,777	34,713	49,935	39,942	61,872	79,602	102,036	96,729	116,010	135,264	$755,880	Y							
Other revenues	$71,374	1,124,074	1,124,074	444,400	448,840	461,590	469,580	477,520	485,450	493,310	501,050	508,420	515,740	$4,805,900			Y					
WWTP Expansion Loan Received-External	$11,183,316	0	$4,476,304	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0								
SIF Loan Repayment to General-Internal P&I	0	0	0	130,000	129,250	128,000	126,250	124,000	521,250	0	0	0	0	$1,158,750								
External Loan - WWTP Digester	0	0	0	0	0	2,000,000	0	0	0	0	0	0	0	$2,000,000								
External Loan - WWTP Odor Control	0	0	0	0	0	0	0	0	0	0	0	0	0	$0								
Grants	(24,481)	0	0	0	0	0	0	0	0	0	0	0	0	$0								
Year-end cash adjustments	0	0	0	0	0	0	0	0	0	0	0	0	0	$0								
TOTAL REVENUES & SOURCES	**$24,484,862**	**$15,174,624**	**$19,650,928**	**$15,850,371**	**$16,958,893**	**$20,479,355**	**$19,910,062**	**$20,824,562**	**$22,169,692**	**$22,635,306**	**$23,627,279**	**$24,665,470**	**$25,741,424**	**$212,862,414**								
OPERATING EXPENSES:																						
Treatment	$4,003,299	$4,064,077	4,064,077	$4,635,205	$4,843,790	$5,150,890	$5,420,280	$5,701,590	$5,995,790	$6,302,770	$6,622,320	$6,951,450	$7,294,850	$58,918,935			Y				Y	
Treatment O&M Projects	0	302,500	302,500	0	0	0	0	0	0	0	0	0	0	0		Y						
Collection System Maintenance	2,362,952	3,087,900	3,087,900	3,138,906	3,280,160	3,488,120	3,670,550	3,861,050	4,060,280	4,268,170	4,484,570	4,707,450	4,940,000	39,899,256			Y				Y	
Collection System O&M Projects	0	35,000	475,823	730,770	0	0	0	0	123,130	0	0	0	0	853,900		Y						
Customer Relations	43,545	54,535	54,535	55,613	57,560	59,570	61,650	63,810	66,040	68,350	70,740	73,220	75,780	652,333							Y	
Customer Relations	0	0	267	0	0	0	0	0	0	0	0	0	0	0								
Administrative	741,362	322,506	322,506	328,897	340,410	352,320	364,650	377,410	390,620	404,290	418,440	433,090	448,250	3,858,377							Y	
Administrative O&M	0	243,001	1,127,161	141,587	112,070	62,490	65,150	126,980	70,800	73,810	143,860	80,220	83,630	960,597							Y	
Workers Comp and Gen'l Liability	0	192,010	192,010	211,060	218,450	226,100	234,010	242,200	250,680	259,450	268,530	277,930	287,660	2,476,070							Y	
1% for the Arts	116,767	37,500	166,270	35,500	24,500	68,360	33,990	47,250	43,100	84,400	40,150	41,850	43,630	462,730							Y	
Payment in-lieu-of taxes PILT (7% of Sales)	914,659	980,820	980,820	1,066,530	1,144,230	1,248,790	1,349,200	1,411,280	1,475,840	1,542,800	1,612,070	1,682,870	1,756,330	14,289,940						Y		
WWTP Expansion Loan-External - P&I	507,830	1,063,178	1,063,178	1,063,950	1,064,234	3,190,789	1,061,435	1,063,897	1,062,090	1,062,572	1,061,997	1,114,984	1,116,478	12,862,426								
WWTP Digester - External P&I Repayment	0	0	0	0	0	0	115,650	115,650	115,650	115,650	115,650	115,650	115,650	809,550								
WWTP Odor Control - External P&I Repaymer	0	0	0	0	0	0	0	0	115,650	115,650	115,650	115,650	115,650	578,250								
Loan to SIF-Internal - P&I	0	1,000,000	1,000,000	0	0	0	0	0	0	0	0	0	0	0								
Services rendered-other depts.	758,706	736,596	736,596	664,964	738,463	764,310	791,060	818,750	847,410	877,070	907,770	939,540	972,420	8,321,757							Y	
TOTAL OPERAT'G EXP (excl depn)	**$9,449,120**	**$12,119,623**	**$13,573,642**	**$12,072,981**	**$11,823,867**	**$14,611,739**	**$13,167,625**	**$13,829,867**	**$14,617,080**	**$15,174,982**	**$15,861,747**	**$16,533,904**	**$17,250,328**	**$144,944,120**								
NET OPERAT'G REV/(LOSS) (excl depn)	**$15,035,742**	**$3,055,001**	**$6,077,285**	**$3,777,390**	**$5,135,026**	**$5,867,616**	**$6,742,437**	**$6,994,695**	**$7,552,612**	**$7,460,324**	**$7,765,532**	**$8,131,566**	**$8,491,096**	**$67,918,295**								
FOOTNOTE: Depreciation Expense	4,840,381	5,009,795	5,185,138	5,366,617	5,554,449	5,748,855	5,950,065	6,158,317	6,373,858	6,596,943	6,827,836	7,066,810	7,314,149	$62,957,899								
CAPITAL EXPENDITURES	$12,775,542	$4,231,680	$13,754,631	$4,784,600	$2,909,631	$7,573,942	$3,670,910	$4,960,830	$4,537,505	$8,677,675	$4,014,710	$4,603,860	$6,232,114	$51,965,777		Y						
NET CHANGE IN WRK'G CASH BAL	**$2,260,200**	**($1,176,679)**	**($7,677,346)**	**($1,007,210)**	**$2,225,395**	**($1,706,326)**	**$3,071,527**	**$2,033,865**	**$3,015,107**	**($1,217,351)**	**$3,750,822**	**$3,527,706**	**$2,258,982**									
ENDING WORKING CASH BALANCE	**$13,759,431**	**$12,582,752**	**$6,082,085**	**$5,074,876**	**$7,300,271**	**$5,593,945**	**$8,665,472**	**$10,699,337**	**$13,714,444**	**$12,497,093**	**$16,247,915**	**$19,775,621**	**$22,034,603**									
Desired Bal (33% of Oper Exp excl'g depn)	$1,700,841.60	$2,181,532	$2,443,256	$2,173,137	$2,483,012	$3,068,465	$3,028,554	$3,457,467	$3,946,612	$4,400,745	$4,917,142	$5,456,188	$5,692,608									
Fav/(Unfav) to Desired Balance	$12,058,590	$10,401,220	$3,638,830	$2,901,739	$4,817,259	$2,525,480	$5,636,919	$7,241,870	$9,767,832	$8,096,348	$11,330,773	$14,319,432	$16,341,995									
Restricted Funds (SIF)																						
BEG'G BALANCE-SYS IMPACT FEES	**$9,238,768**	**$4,179,721**	**$4,179,721**	**$3,431,413**	**$3,221,108**	**$2,432,460**	**$3,567,556**	**$3,145,955**	**$6,481,588**	**$5,837,265**	**$5,856,744**	**$5,923,580**	**$5,861,728**									
SIF REVENUES																						
SIF Collections	1,852,688	1,439,949	1,439,949	1,289,468	959,771	2,730,810	1,806,057	1,867,111	1,938,155	2,003,840	2,050,390	1,956,221	1,943,380	$18,545,203			Y				Y	
SIF 402 Revenue	0	0	0	0	0	0	0	0	0	179,715	188,827	198,211	208,003	$774,756								
SIF Interest Income	159,922	2,640	2,640	74,800	73,440	55,460	84,910	74,870	160,740	144,760	151,100	140,980	133,650	$1,094,710	Y							
SIF Other Revenues	0	334,375	334,375	0	0	0	0	0	0	0	0	0	0	$0								
WWTP Expansion SIF Loan Received	6,854,291	0	1,837,089	0	0	0	0	0	0	0	0	0	0	$0								
SIF Loan from Wwtr General Received	0	1,000,000	1,000,000	0	0	0	0	0	0	0	0	0	0	$0								
SIF Loan - 402 Sewer Line	0	0	0	0	0	0	0	17,710,000	0	0	0	0	0	$17,710,000								
SIF Loan - Boyd Basin Sewer Capacity	0	0	0	0	0	7,500,000	0	0	0	0	0	0	0	$7,500,000								
External Loan - Service Center Expansion	0	0	0	0	0	0	0	0	0	3,000,000	0	0	0	$3,000,000								
TOTAL SIF REVENUES	**$8,866,901**	**$2,776,964**	**$4,614,053**	**$1,364,268**	**$1,033,211**	**$10,286,270**	**$1,890,967**	**$19,651,981**	**$2,098,895**	**$5,328,315**	**$2,390,317**	**$2,295,413**	**$2,285,033**	**$48,624,669**								
SIF CAPITAL AND EXPENSES:																						
SIF Capital Expenditures	13,485,787	1,462,500	4,677,835	845,000	1,095,679	6,967,518	84,970	88,590	172,385	3,228,455	100,370	104,630	1,585,296	$14,272,893		Y						
SIF 1% for the Arts	128,625	13,250	93,134	7,750	4,950	63,420	850	136,720	920	31,450	1,000	1,050	1,090	$249,200		Y						
SIF Capital Expenditure-402 Sewer Line	0	0	0	0	0	217,360	1,076,350	14,941,520	0	0	0	0	0	$16,235,230		Y						
SIF WWTP Expansion Loan-External - P&I	311,536	591,392	591,392	591,822	591,980	1,774,876	590,423	591,793	590,788	591,056	590,736	620,210	621,041	$7,154,724								
SIF Loan Pymt to General-Internal - P&I	0	0	0	130,000	129,250	128,000	126,250	124,000	521,250	0	0	0	0	$1,158,750								
SIF Loan - 402 Sewer Line P&I	0	0	0	0	0	0	0	0	1,024,150	1,024,150	1,024,150	1,024,150	1,024,150	$5,120,750								
SIF Loan - Boyd Basin Sewer Capacity P&I	0	0	0	0	0	0	433,725	433,725	433,725	433,725	433,725	433,725	433,725	$3,036,075								
External Loan - Service Center Expansion P&I	0	0	0	0	0	0	0	0	0	0	173,500	173,500	173,500	$520,500								
Year-end Cash Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	$0								
TOTAL SIF CAPITAL & EXPENSES	**13,925,948**	**2,067,142**	**5,362,362**	**1,574,572**	**1,821,859**	**9,151,174**	**2,312,568**	**16,316,348**	**2,743,218**	**5,308,836**	**2,323,481**	**2,357,265**	**3,838,802**	**$47,748,122**								
END'G BALANCE-SYS IMPACT FEES	**$4,179,721**	**$4,889,543**	**$3,431,413**	**$3,221,108**	**$2,432,460**	**$3,567,556**	**$3,145,955**	**$6,481,588**	**$5,837,265**	**$5,856,744**	**$5,923,580**	**$5,861,728**	**$4,307,959**									
TOTAL AVAILABLE FUNDS	**$17,939,152**	**$17,472,295**	**$9,513,498**	**$8,295,984**	**$9,732,731**	**$9,161,501**	**$11,811,427**	**$17,180,925**	**$19,551,709**	**$18,353,837**	**$22,171,495**	**$25,637,348**	**$26,342,562**									

1	**LOVELAND WATER AND POWER**				2.18%	2.28%	2.28%	2.38%	2.38%	2.48%	2.48%	2.58%	2.38%	2.28%		**A**	Interest on Investments
2	**POWER UTILITY**				3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%		**B**	General Inflation Rate
3	**FINANCIAL FORECAST - Contract version**				4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%		**C**	Inflation Rate on Power Utility Specific Projects
4	**2020-2029**				1.43%	1.00%	2.84%	1.73%	1.69%	1.66%	1.62%	1.57%	1.47%	1.44%		**D**	Growth from New Development
5					0.00%	-0.10%	-0.20%	-0.30%	-0.40%	-0.50%	-0.60%	-0.70%	-0.80%	-0.90%		**E**	Energy/Demand Increase/(Decrease) Per Customer
7	**Report as of:**				1.00%	2.00%	2.00%	2.00%	2.00%	2.00%	1.70%	1.70%	1.70%	1.70%		**F**	PRPA Wholesale Rate Increase
8	**6/12/2019**				0.81%	1.62%	1.62%	1.62%	1.62%	1.62%	1.38%	1.38%	1.38%	1.38%		**G_1**	Power Sales Rate Increase Due to PRPA Rate Incr.
9					4.19%	1.38%	0.38%	0.38%	0.38%	0.38%	0.62%	0.62%	0.62%	0.62%		**G_2**	Power Sales Rate Increase Due to Dept Needs
10					5.00%	3.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%		**G**	Total Power Sales Rate Increase
11					7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%		**H**	Payment in Lieu of Taxes (PILT)
12		38,218	38,218	38,765	39,153	40,265	40,962	41,654	42,345	43,031	43,707	44,349	44,988		**J**	Power Customers	

		Actual 2018	Adopted Budget 2019	Forecast 2019	Budget 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	2020 to 2029 Total	A	B	C	D	E	F	G	G	H	I
16	**Unrestricted Funds**																								
17	**BEGINNING WORKING CASH BALANCE:**	**$18,417,600**	**$16,537,199**	**$16,537,199**	**$10,870,411**	**$12,331,374**	**$14,706,535**	**$16,726,451**	**$20,994,310**	**$23,703,691**	**$29,719,331**	**$28,396,111**	**$31,344,490**	**$34,702,267**											
18	**REVENUES & SOURCES:**																								
19	Power Sales	$65,897,853	$68,256,630	$68,256,630	$72,895,030	$75,737,940	$79,252,180	$81,970,530	$84,667,360	$87,342,850	$89,980,600	$92,563,040	$95,034,470	$97,448,350	$856,892,350				Y	Y		Y			
20	Wheeling charges	275,681	265,000	265,000	270,000	272,430	279,620	283,620	287,280	290,610	293,570	296,120	298,100	299,710	$2,871,060				Y	Y					
21	Interest on investments	229,342	397,580	397,580	236,970	281,160	335,310	398,090	499,660	587,850	737,040	732,620	746,000	791,210	$5,345,910	Y									
22	Aid-To-Construction deposits	1,865,537	1,610,000	1,610,000	1,710,000	1,782,680	2,075,800	2,164,020	2,256,000	2,351,880	2,451,830	2,556,030	2,664,660	2,777,910	$22,790,810										
23	Customer deposits - Service Installations	121,145	310,000	310,000	310,000	323,190	336,910	351,230	366,160	381,720	397,940	414,850	432,490	450,860	$3,765,350										
24	Payments Rec'd from Loan to Broadband	0		67,500	54,500	57,000	57,000	59,500	559,500	549,600	537,200	525,800	511,900	0	$2,912,000										
25	Other revenues	1,119,629	1,006,572	1,006,572	971,300	981,010	1,008,870	1,026,320	1,043,660	1,060,980	1,078,170	1,095,100	1,111,200	1,127,200	$10,503,810				Y						
26	FEMA and CIRSA Revenue	404,785	0	250,960	0	0	0	0	0	0	0	0	0	0	$0										
27	Year-end cash adjustments	0	0	0	0	0	0	0	0	0	0	0	0	0	$0										
28	**TOTAL REVENUES**	**$69,913,972**	**$71,845,782**	**$72,164,242**	**$76,447,800**	**$79,435,410**	**$83,345,690**	**$86,253,310**	**$89,679,620**	**$92,565,490**	**$95,476,350**	**$98,183,560**	**$100,798,820**	**$102,895,240**	$905,081,290										
29	**OPERATING EXPENSES:**																								
30	Hydro oper. & maint.	$212,060	1,308,616	$5,130,000	$508,917	$0	$0	$0	$0	$0	$0	$0	$0	$0	$508,917		Y								
31	Solar Oper & Maint	40,575	90,000	90,000	75,000	77,630	80,350	83,160	86,070	89,080	92,200	95,430	98,770	102,230	$879,920		Y								
32	Purchased power	44,596,397	44,761,779	44,761,779	46,550,553	47,909,830	50,152,010	51,902,320	53,651,430	55,400,470	56,973,840	58,517,830	59,998,330	61,450,290	$542,506,903				Y	Y	Y	Y			
33	Distribution oper. & maint.	4,953,889	5,674,385	5,674,385	5,984,569	6,176,240	6,487,460	6,743,590	7,007,510	7,280,020	7,560,560	7,848,450	8,139,750	8,439,620	$71,667,769		Y		Y						
34	Customer Relations	1,413,163	1,557,956	1,557,956	1,576,771	1,631,960	1,689,080	1,748,200	1,809,390	1,872,720	1,938,270	2,006,110	2,076,320	2,148,990	$18,497,811		Y								
35	Administration	1,588,534	1,220,966	1,220,966	1,037,240	1,073,540	1,111,110	1,150,000	1,190,250	1,231,910	1,275,030	1,319,660	1,365,850	1,413,650	$12,168,240		Y								
36	Administration - O&M - One Time Expenses	0	60,000	2,567,372	60,000	0	100,000	49,890	800,000	200,000	55,320	0	0	61,330	$1,326,540										
37	Workers Comp and Gen'l Liability	0	283,285	283,285	219,885	227,580	235,550	243,790	252,320	261,150	270,290	279,750	289,540	299,670	$2,579,525		Y								
38	1% For the Arts Transfer	111,170	67,203	67,203	83,203	89,039	97,215	79,083	95,673	71,910	150,832	112,011	110,493	115,843	$1,005,300		Y								
39	Payment in-lieu-of taxes PILT (7.0% of Power Sales)	4,564,369	4,777,960	4,777,960	5,102,650	5,301,660	5,547,650	5,737,940	5,926,720	6,114,000	6,298,640	6,479,410	6,652,410	6,821,380	$59,982,460									Y	
40	Services rendered-other depts.	2,684,117	2,600,620	2,600,620	2,885,801	3,109,580	3,218,420	3,331,060	3,447,650	3,568,320	3,693,210	3,822,470	3,956,260	4,094,730	$35,127,501		Y								
41	**TOTAL OPERATING EXPENSES (excl depn)**	**$60,164,274**	**$62,402,770**	**$68,731,526**	**$64,084,587**	**$65,597,059**	**$68,718,845**	**$71,069,033**	**$74,267,013**	**$76,089,580**	**$78,308,192**	**$80,481,121**	**$82,687,723**	**$84,947,733**	$746,250,885										
42	**NET OPERATING REVENUE/(LOSS) (excl depn)**	**$9,749,698**	**$9,443,012**	**$3,432,716**	**$12,363,213**	**$13,838,352**	**$14,626,845**	**$15,184,277**	**$15,412,607**	**$16,475,910**	**$17,168,158**	**$17,702,439**	**$18,111,097**	**$17,947,507**	$158,830,405										
43	FOOTNOTE: Depreciation Expense	0	$4,366,320	0	4,302,760	4,801,820	5,267,070	5,793,470	6,321,490	6,860,460	7,486,640	8,178,120	8,862,880	9,577,830	$67,452,540										
44	**CAPITAL EXPENDITURES:**																								
45	General Plant	$9,508,714	$494,180	$1,050,139	$222,000	$99,040	$103,250	$107,630	$112,210	$116,980	$4,550,640	$127,130	$132,540	$138,170	$5,709,590			Y							
46	Aid-To-Construction	1,846,443	$1,610,000	1,610,000	1,710,000	1,782,680	2,075,800	2,164,020	2,256,000	2,351,880	2,451,830	2,556,030	2,664,660	2,777,910	$22,790,810			Y							
47	Service Installations	274,942	$310,000	310,000	310,000	323,190	336,910	351,230	366,160	381,720	397,940	414,850	432,490	450,860	$3,765,350			Y							
48	Other Generation & Distribution	0	$7,310,250	6,129,365	8,660,250	9,258,280	10,090,970	8,293,537	9,968,856	7,609,690	11,090,968	11,656,050	11,523,630	12,078,805	$100,231,036			Y							
49	**TOTAL CAPITAL EXPENDITURES**	$11,630,099	$9,724,430	$9,099,504	$10,902,250	$11,463,190	$12,606,930	$10,916,417	$12,703,226	$10,460,270	$18,491,378	$14,754,060	$14,753,320	$15,445,745	$132,496,786										
50	NET CHANGE IN WORKING CASH BALANCE	($1,880,401)	($281,418)	($5,666,788)	$1,460,963	$2,375,162	$2,019,915	$4,267,860	$2,709,381	$6,015,640	($1,323,220)	$2,948,379	$3,357,777	$2,501,762											
51	(Net Oper Rev/(Loss) less Cap Exp)																								
52	**ENDING WORKING CASH BALANCE**	**$16,537,199**	**$16,255,781**	**$10,870,411**	**$12,331,374**	**$14,706,535**	**$16,726,451**	**$20,994,310**	**$23,703,691**	**$29,719,331**	**$28,396,111**	**$31,344,490**	**$34,702,267**	**$37,204,029**											
53	**Desired Balance %**		**18%**	**18%**	**18%**	**21%**	**21%**	**23%**	**25%**	**27%**	**29%**	**31%**	**33%**	**33%**											
54	Desired Fund Balance	$10,829,569.32	$11,221,698.60	$11,909,547.75	$11,524,425.75	$13,775,382.29	$14,409,957.37	$16,334,402.93	$18,366,753.19	$20,490,186.71	$22,693,332.90	$24,949,147.36	$27,286,948.56	$28,012,513.01											
55	Fav/(Unfav) to Desired Balance	$5,707,630	$5,034,082	($1,039,137)	$806,948	$931,153	$2,316,493	$4,659,907	$5,336,938	$9,229,144	$5,702,778	$6,395,343	$7,415,319	$9,191,516											
56	**Restricted Funds (PIF)**																								
57	**BEGINNING BAL-PLANT INVESTMENT FEE**	**$5,154,092**	**$7,751,621**	**$7,751,621**	**$2,978,132**	**$14,992**	**$657,637**	**$732,918**	**$661,792**	**$2,246,342**	**$4,996,239**	**$552,968**	**$807,917**	**$191,010**											
58	**PIF REVENUES**																								
59	PIF Collections	$3,216,912	2,743,740	$2,743,740	$2,908,940	$3,039,840	$3,232,570	$3,401,630	$3,578,170	$3,762,800	$3,955,460	$4,156,000	$4,362,550	$4,578,060	$36,976,020		Y		Y						
60	PIF Interest Income	26,928	37,450	37,450	64,920	340	14,990	17,440	15,750	139,290	166,570	14,270	19,230	4,360	$457,160	Y									
61	External Loan - SE Corridor Substation	0	0	0	0	0	0	0	5,200,000	0	0	0	0	0	$5,200,000										
62	Payments Rec'd from Loan to Water	795,300	783,750	783,750	772,500	761,250	0	0	0	0	0	0	0	0	$1,533,750										
63	**TOTAL PIF REVENUES**	**$4,039,140**	**$3,564,940**	**$3,564,940**	**$3,746,360**	**$3,801,430**	**$3,247,560**	**$3,419,070**	**$8,793,920**	**$3,902,090**	**$4,122,030**	**$4,170,270**	**$4,381,780**	**$4,582,420**	$47,731,870										
64	**PIF CAPITAL AND EXPENSES**																								
65	PIF Capital Expenditures	$1,441,611	4,650,000	8,299,929	$6,650,000	$3,127,510	$3,140,870	$3,455,640	$7,137,990	$837,320	$8,177,030	$3,573,090	$4,645,730	$218,160	$40,963,340			Y							
66	PIF 1% For the Arts Transfer	0	38,500	38,500	59,500	31,275	31,409	34,556	71,380	8,373	81,770	35,731	46,457	2,182	$402,633										
67	External Loan Payment - SE Corridor Substation	0	0	0	0	0	0	0	0	306,500	306,500	306,500	306,500	306,500	$1,532,500										
68	**TOTAL PIF CAPITAL AND EXPENSES**	$1,441,611	$4,688,500	$8,338,429	$6,709,500	$3,158,785	$3,172,279	$3,490,196	$7,209,370	$1,152,193	$8,565,300	$3,915,321	$4,998,687	$526,842	$42,898,473										
69	**ENDING BALANCE-PLANT INVESTMENT FEE**	**$7,751,621**	**$6,628,061**	**$2,978,132**	**$14,992**	**$657,637**	**$732,918**	**$661,792**	**$2,246,342**	**$4,996,239**	**$552,968**	**$807,917**	**$191,010**	**$4,246,589**											
70	**TOTAL AVAILABLE FUNDS**	**$24,288,820**	**$22,883,842**	**$13,848,543**	**$12,346,366**	**$15,364,172**	**$17,459,369**	**$21,656,102**	**$25,950,033**	**$34,715,570**	**$28,949,080**	**$32,152,408**	**$34,893,277**	**$41,450,618**											

7

Attachment B

	Project	Proj #	Type	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	10-Year Total (2020-2029)	Raw Water	General Unrestricted	SIF - Restricted	Raw Water - 10 year	General Unrestricted - 10 year	SIF - Restricted - 10 year
1																				
2																				
3	**TRANSMISSION/DISTRIBUTION PROJECTS**																			
4																				
5	***Water Main Replacement Projects***																			
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
7		0	0	0	0	0	0	0	0	0	0	0	0	0	0%	100%	0%	$0	$0	$0
8	2020 Water Line Replacement (Sherri Mar)- Design/SDC	W1903C	Design/SDC	160,000	0	0	0	0	0	0	0	0	0	160,000	0%	100%	0%	$0	$160,000	$0
9	2020 Water Line Replacement (Sherri Mar) - Construct	W1903C	Construct	2,000,000	0	0	0	0	0	0	0	0	0	2,000,000	0%	100%	0%	$0	$2,000,000	$0
10	2021 Water Line Replacement (Namaqua Hills) - Design/SDC	0	Design/SDC	112,000	116,760	0	0	0	0	0	0	0	0	228,760	0%	100%	0%	$0	$228,760	$0
11	2021 Water Line Replacement (Namaqua Hills) - Construct	0	Construct	0	1,459,500	0	0	0	0	0	0	0	0	1,459,500	0%	100%	0%	$0	$1,459,500	$0
12	2022 Water Line Replacement (16" Taft Ave) - Design/SDC	0	Design/SDC	0	208,500	217,360	0	0	0	0	0	0	0	425,860	0%	100%	0%	$0	$425,860	$0
13	2022 Water Line Replacement (16" Taft Ave) - Construct	0	Construct	0	0	2,717,020	0	0	0	0	0	0	0	2,717,020	0%	100%	0%	$0	$2,717,020	$0
14	2023 Water Line Replacement (20" 29th St & 4th St) - Design/SDC	0	Design/SDC	0	0	163,020	220,930	0	0	0	0	0	0	383,950	0%	100%	0%	$0	$383,950	$0
15	2023 Water Line Replacement (20" 29th St & 4th St) - Construct	0	Construct	0	0	0	2,945,790	0	0	0	0	0	0	2,945,790	0%	100%	0%	$0	$2,945,790	$0
16	2024 Water Line Replacement - Design/SDC	0	Design/SDC	0	0	0	237,930	248,040	0	0	0	0	0	485,970	0%	100%	0%	$0	$485,970	$0
17	2024 Water Line Replacement - Construct	0	Construct	0	0	0	0	3,307,210	0	0	0	0	0	3,307,210	0%	100%	0%	$0	$3,307,210	$0
18	2025 Water Line Replacement - Design/SDC	0	Design/SDC	0	0	0	0	274,620	286,290	0	0	0	0	560,910	0%	100%	0%	$0	$560,910	$0
19	2025 Water Line Replacement - Construct	0	Construct	0	0	0	0	0	3,817,170	0	0	0	0	3,817,170	0%	100%	0%	$0	$3,817,170	$0
20	2026 Water Line Replacement - Design/SDC	0	Design/SDC	0	0	0	0	0	304,760	317,710	0	0	0	622,470	0%	100%	0%	$0	$622,470	$0
21	2026 Water Line Replacement - Construct	0	Construct	0	0	0	0	0	0	4,236,140	0	0	0	4,236,140	0%	100%	0%	$0	$4,236,140	$0
22	2027 Water Line Replacement - Design/SDC	0	Design/SDC	0	0	0	0	0	0	346,590	361,320	0	0	707,910	0%	100%	0%	$0	$707,910	$0
23	2027 Water Line Replacement - Construct	0	Construct	0	0	0	0	0	0	0	4,817,650	0	0	4,817,650	0%	100%	0%	$0	$4,817,650	$0
24	2028 Water Line Replacement - Design/SDC	0	Design/SDC	0	0	0	0	0	0	0	391,430	408,070	0	799,500	0%	100%	0%	$0	$799,500	$0
25	2028 Water Line Replacement - Construct	0	Construct	0	0	0	0	0	0	0	0	5,440,930	0	5,440,930	0%	100%	0%	$0	$5,440,930	$0
26	2028 Water Line Replacement - Design/SDC	0	Design/SDC	0	0	0	0	0	0	0	0	408,070	0	408,070	0%	100%	0%	$0	$408,070	$0
27	2029 Water Line Replacement - Construct	0	Construct	0	0	0	0	0	0	0	0	0	5,672,170	5,672,170	0%	100%	0%	$0	$5,672,170	$0
28	2029 Water Line Replacement - Design/SDC	0	Design/SDC	0	0	0	0	0	0	0	0	0	425,410	425,410	0%	100%	0%	$0	$425,410	$0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
30	24" & 48" Cathodic Protection Installation Design/SDC	0	Design/SDC	32,000	33,360	0	0	0	0	0	0	0	0	65,360	0%	100%	0%	$0	$65,360	$0
31	24" & 48" Cathodic Protection Installation Construct	0	Construct	0	417,000	0	0	0	0	0	0	0	0	417,000	0%	100%	0%	$0	$417,000	$0
32	34" Waterline Valve Insertions Design/SDC	0	Design/SDC	0	16,680	0	0	0	0	0	0	0	0	16,680	0%	100%	0%	$0	$16,680	$0
33	34" Waterline Valve Insertions Construct	0	Construct	0	208,500	0	0	0	0	0	0	0	0	208,500	0%	100%	0%	$0	$208,500	$0
34	36" Transmission Line Relining Design/SDC	0	Design/SDC	0	0	0	0	0	0	400,510	417,530	0	0	818,040	0%	100%	0%	$0	$818,040	$0
35	36" Transmission Line Relining Construct	0	Construct	0	0	0	0	0	0	0	5,219,120	0	0	5,219,120	0%	100%	0%	$0	$5,219,120	$0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
38	New water lines	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
39	37th St Waterline Connection Design/SDC	0	Design/SDC	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
40	37th St Waterline Connection Construct	0	Construct	150,000	0	0	0	0	0	0	0	0	0	150,000	0%	50%	50%	$0	$75,000	$75,000
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
42	East Gravity Zone 24" Phase 1a St Louis Design/SDC	0	Design/SDC	100,000	0	0	0	0	0	0	0	0	0	100,000	0%	20%	80%	$0	$20,000	$80,000
43	East Gravity Zone 24" Phase 1b St Louis Design/SDC	0	Design/SDC	0	200,160	208,670	0	0	0	0	0	0	0	408,830	0%	20%	80%	$0	$81,770	$327,060
44	East Gravity Zone 24" Phase 1b St Louis Construct	0	Construct	0	0	2,608,340	0	0	0	0	0	0	0	2,608,340	0%	20%	80%	$0	$521,670	$2,086,670
45	East Gravity Zone 36" Phase 2 28th St SW Taft to Garfield Design/SDC	0	Design/SDC	0	0	652,080	679,800	0	0	0	0	0	0	1,331,880	0%	20%	80%	$0	$266,380	$1,065,500

Water 10 Year Capital Budget - For City

1	Project	Proj #	Type	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	10-Year Total (2020-2029)	Raw Water	General Unrestricted	SIF - Restricted	Raw Water - 10 year	General Unrestricted - 10 year	SIF - Restricted - 10 year
46	East Gravity Zone 36" Phase 2 28th St SW Taft to Garfield Construct		0 Construct	0	0	0	6,797,970	0	0	0	0	0	0	6,797,970	0%	20%	80%	$0	$1,359,590	$5,438,380
47	East Gravity Zone 36" Phase 3 Garfield to 402 Design/SDC		0 Design/SDC	0	0	0	0	0	0	0	0	1,325,350	1,381,680	2,707,030	0%	20%	80%	$0	$541,410	$2,165,620
48	East Gravity Zone 36" Phase 3 Garfield to 402 Construct		0 Construct	0	0	0	0	0	0	0	0	0	13,816,820	13,816,820	0%	20%	80%	$0	$2,763,360	$11,053,460
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	100%	$0	$0	$0
50	16" in Granite (57th to 50th) (Ranch Acres) Design/SDC		0 Design/SDC	0	0	0	0	0	43,340	45,190	0	0	0	88,530	0%	50%	50%	$0	$44,270	$44,270
51	16" in Granite (57th to 50th) (Ranch Acres) Construct		0 Construct	0	0	0	0	0	0	564,820	0	0	0	564,820	0%	50%	50%	$0	$282,410	$282,410
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	10%	90%	$0	$0	$0
53	402 Waterline Extension Design/SDC		0 Design/SDC	0	0	163,020	0	0	0	0	0	0	0	163,020	0%	0%	100%	$0	$0	$163,020
54	402 Waterline Extension Design/SDC		0 Design/SDC	0	0	0	770,440	803,180	0	0	0	0	0	1,573,620	0%	0%	100%	$0	$0	$1,573,620
55	402 Waterline Extension Construct		0 Construct	0	0	0	0	10,039,760	0	0	0	0	0	10,039,760	0%	0%	100%	$0	$0	$10,039,760
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	100%	$0	$0	$0
57	16" P8 Extension (South of 34, Lot 1) Design/SDC		0 Design/SDC	48,000	0	0	0	0	0	0	0	0	0	48,000	0%	0%	100%	$0	$0	$48,000
58	16" P8 Extension (South of 34, Lot 1) Construct		0 Construct	300,000	0	0	0	0	0	0	0	0	0	300,000	0%	0%	100%	$0	$0	$300,000
59	16" P8 Extension (South of 34, Lot 2) Design/SDC		0 Design/SDC	0	0	52,170	0	0	0	0	0	0	0	52,170	0%	0%	100%	$0	$0	$52,170
60	16" P8 Extension (South of 34, Lot 2) Construct		0 Construct	0	0	326,040	0	0	0	0	0	0	0	326,040	0%	0%	100%	$0	$0	$326,040
61	16" P8 Extension (South of 34, Lot 3) Design/SDC		0 Design/SDC	0	0	0	108,770	0	0	0	0	0	0	108,770	0%	0%	100%	$0	$0	$108,770
62	16" P8 Extension (South of 34, Lot 3) Construct		0 Construct	0	0	0	679,800	0	0	0	0	0	0	679,800	0%	0%	100%	$0	$0	$679,800
63	16" P8 Extension (Under 34) Design/SDC		0 Design/SDC	0	0	0	67,980	70,870	0	0	0	0	0	138,850	0%	0%	100%	$0	$0	$138,850
64	16" P8 Extension (Under 34) Construct		0 Construct	0	0	0	0	708,690	0	0	0	0	0	708,690	0%	0%	100%	$0	$0	$708,690
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
67	Large Projects		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
68	5.0 MG Water Storage 29th Street Tank #2 Design/SDC	W1904D	Design/SDC	648,000	0	0	0	0	0	0	0	0	0	648,000	0%	20%	80%	$0	$129,600	$518,400
69	5.0 MG Water Storage 29th Street Tank #2 Construct	W1904D	Construct	8,100,000	0	0	0	0	0	0	0	0	0	8,100,000	0%	20%	80%	$0	$1,620,000	$6,480,000
70	Namaqua Hills Pump Station Design/SDC	W1911C	Design/SDC	70,000	0	0	0	0	0	0	0	0	0	70,000	0%	100%	0%	$0	$70,000	$0
71	Namaqua Hills Pump Station Construct	W1911C	Construct	700,000	0	0	0	0	0	0	0	0	0	700,000	0%	100%	0%	$0	$700,000	$0
72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
73	Morning Drive Pump Station MCC Upgrade Design/SDC		0 Design/SDC	0	0	0	22,660	23,620	0	0	0	0	0	46,280	0%	50%	50%	$0	$23,140	$23,140
74	Morning Drive Pump Station MCC Upgrade Construct		0 Construct	0	0	0	0	236,230	0	0	0	0	0	236,230	0%	50%	50%	$0	$118,120	$118,120
75	3.5 MG 43rd St Tank #2 Design/SDC		0 Design/SDC	0	0	0	0	574,510	598,930	0	0	0	0	1,173,440	0%	20%	80%	$0	$234,690	$938,750
76	3.5 MG 43rd St Tank #2 Construct		0 Construct	0	0	0	0	0	7,486,590	0	0	0	0	7,486,590	0%	20%	80%	$0	$1,497,320	$5,989,270
77	Mariana Butte Pump Station Pump Replacement Design/SDC		0 Design/SDC	0	0	0	0	0	0	0	20,070	20,930	0	41,000	0%	0%	100%	$0	$0	$41,000
78	Mariana Butte Pump Station Pump Replacement Construct		0 Construct	0	0	0	0	0	0	0	0	418,530	0	418,530	0%	0%	100%	$0	$0	$418,530
79	Chasteens Grove Water Booster Station Design/SDC		0 Design/SDC	0	0	0	0	0	0	0	0	0	145,440	145,440	0%	0%	100%	$0	$0	$145,440
80	Chasteens Grove Water Booster Station Design/SDC		0 Design/SDC	0	0	0	0	0	0	0	0	0	0	0	0%	0%	100%	$0	$0	$0
81	Chasteens Grove Water Booster Station Construct		0 Construct	0	0	0	0	0	0	0	0	0	0	0	0%	0%	100%	$0	$0	$0
82	2.0 MG Dakota Ridge Buried Concrete Tank PZ2 Design/SDC		0 Design/SDC	0	0	0	0	0	0	0	0	0	799,920	799,920	0%	20%	80%	$0	$159,980	$639,940
83	2.0 MG Dakota Ridge Buried Concrete Tank PZ2 Construct		0 Construct	0	0	0	0	0	0	0	0	0	0	0	0%	20%	80%	$0	$0	$0
84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
86	Mountain View Water Pump Station 3rd Pump Design/SDC		0 Design/SDC	0	0	0	0	0	0	0	0	0	0	0	0%	0%	100%	$0	$0	$0
87	Mountain View Water Pump Station 3rd Pump Construct		0 Construct	0	0	0	0	0	0	0	0	0	0	0	0%	100%	0%	$0	$0	$0
88	2.0 MG Crossroads Elevated Tank #2 Construct		0 Construct	0	0	0	0	0	0	0	0	0	0	0	0%	20%	80%	$0	$0	$0
89	4.0 MG South Concrete Tank #2 Construct		0 Construct	0	0	0	0	0	0	0	0	0	0	0	0%	20%	80%	$0	$0	$0

Water 10 Year Capital Budget - For City

1	Project	Proj #		Type	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	10-Year Total (2020-2029)	Raw Water	General Unrestricted	SIF - Restricted	Raw Water - 10 year	General Unrestricted - 10 year	SIF - Restricted - 10 year
90	4.0 MG Chasteen Tank #2 at WTP Construct		0	Construct	0	0	0	0	0	0	0	0	0	0	0	0%	20%	80%	$0	$0	$0
91	FCLWD Interconnect at Crossroads Tank Design/SDC		0	Design/SDC	0	0	0	0	0	0	0	0	22,320	23,270	45,590	0%	100%	0%	$0	$45,590	$0
92	FCLWD Interconnect at Crossroads Tank Construct		0	Construct	0	0	0	0	0	0	0	0	0	290,880	290,880	0%	100%	0%	$0	$290,880	$0
93	Fire Training Grounds Water Metering Design/SDC		0	Design/SDC	8,000	8,340	0	0	0	0	0	0	0	0	16,340	0%	100%	0%	$0	$16,340	$0
94	Fire Training Grounds Water Metering Construct		0	Construct	0	104,250	0	0	0	0	0	0	0	0	104,250	0%	100%	0%	$0	$104,250	$0
95	29th St Pump Station Generator Design/SDC		0	Design/SDC	0	0	0	0	0	0	0	0	0	0	0	0%	100%	0%	$0	$0	$0
96	29th St Pump Station Generator Construct		0	Construct	0	0	0	0	0	0	0	0	0	0	0	0%	100%	0%	$0	$0	$0
97	57th & Monroe interconnect Construct		0	Construct	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
98																					
99	Service Center Expansion Construct		0	Construct	0	0	0	0	0	0	5,969,110	0	0	0	5,969,110	0%	50%	50%	$0	$2,984,560	$2,984,560
100		0	0		0	0	0	0	0	0	0	0	0	0	0	0%	100%	0%	$0	$0	$0
102	Miscellaneous		0		0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
103	Misc. Oversizing and Extensions	W1207D		Construct	75,000	78,190	81,510	84,970	88,590	92,350	96,280	100,370	104,630	109,080	910,970	0%	0%	100%	$0	$0	$910,970
104	Trans/Dist Meters (Wtr Dept) (48317	WA900		Construct	115,000	119,890	124,980	130,290	135,830	141,600	147,620	153,900	160,440	167,260	1,396,810	0%	100%	0%	$0	$1,396,810	$0
105	Contractors Meters (New Development) (48316	WA900		Construct	83,000	86,530	90,200	94,040	98,040	102,200	106,550	111,070	115,790	120,720	1,008,140	0%	100%	0%	$0	$1,008,140	$0
106	millenium nw		0	Construct	30,000	0	0	0	0	0	0	0	0	0	30,000	0%	0%	100%	$0	$0	$30,000
107	park side 2nd		0	Construct	0	52,130	0	0	0	0	0	0	0	0	52,130	0%	0%	100%	$0	$0	$52,130
108	gator west 12" Granite Waterline		0	Construct	0	104,250	0	0	0	0	0	0	0	0	104,250	0%	0%	100%	$0	$0	$104,250
110		0	0		0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
111	**TRANSMISSION/DISTRIBUTION TOTAL**				$12,731,000	$3,214,040	$7,404,410	$12,841,370	$16,609,190	##########	$12,230,520	$11,592,460	$8,425,060	$22,952,650	120,873,930				0	64,722,370	56,151,590
112																					
113																					
114	TRANSMISSION/DISTRIBUTION GENERAL TOTAL =				5,124,600	2,819,342	4,006,398	5,135,864	4,308,567	6,290,794	8,844,680	11,472,020	6,820,690	9,899,394	64,722,349						
115	TRANSMISSION/DISTRIBUTION SIF TOTAL =				7,531,400	316,508	3,316,502	7,620,536	12,212,033	6,490,086	3,289,560	20,070	1,499,740	12,944,176	55,240,611						
116	SIF OVERSIZING =				75,000	78,190	81,510	84,970	88,590	92,350	96,280	100,370	104,630	109,080	910,970						
117					0	0	0	0	0	0	0	0	0	0							
118																					
119	**WATER TREATMENT PLANT PROJECTS**																				
120	Expansion		0		0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
121	Cold Storage Building Construct	W1801D		Construct	250,000	0	0	0	0	0	0	0	0	0	250,000	0%	50%	50%	$0	$125,000	$125,000
122	WTP Backwash Pond #8 Design/SDC		0	Design/SDC	0	0	0	0	0	0	0	0	78,130	81,450	159,580	0%	100%	0%	$0	$159,580	$0
123	WTP Backwash Pond #8 Construct		0	Construct	0	0	0	0	0	0	0	0	0	1,018,080	1,018,080	0%	100%	0%	$0	$1,018,080	$0
124	Phase 3 Expansion (38-46 MGD) Design/SDC		0	Design/SDC	0	0	0	0	0	0	0	0	0	0	0	0%	20%	80%	$0	$0	$0
125	Phase 3 Expansion (38-46 MGD) Construct		0	Construct	0	0	0	0	0	0	0	0	0	0	0	0%	20%	80%	$0	$0	$0
126		0	0		0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
131	Improvements		0		0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
133	Backwash Pumps Construct		0	Construct	0	130,310	0	0	0	0	0	0	0	0	130,310	0%	100%	0%	$0	$130,310	$0
134	PLC Processors Design/SDC		0	Design/SDC	0	0	38,040	0	0	0	0	0	0	0	38,040	0%	100%	0%	$0	$38,040	$0
135	PLC Processors Construct		0	Construct	0	0	0	396,550	0	0	0	0	0	0	396,550	0%	100%	0%	$0	$396,550	$0
136	Pre Soda Ash System Rehab Design/SDC		0	Design/SDC	0	0	13,040	13,600	0	0	0	0	0	0	26,640	0%	100%	0%	$0	$26,640	$0
137	Pre Soda Ash System Rehab Construct		0	Construct	0	0	0	169,950	0	0	0	0	0	0	169,950	0%	100%	0%	$0	$169,950	$0
138	WTP Admin/Office Renovation Design/SDC		0	Design/SDC	0	104,250	108,680	0	0	0	0	0	0	0	212,930	0%	100%	0%	$0	$212,930	$0

Water 10 Year Capital Budget - For City

1	Project	Proj #	Type	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	10-Year Total (2020-2029)	Raw Water	General Unrestricted	SIF - Restricted	Raw Water - 10 year	General Unrestricted - 10 year	SIF - Restricted - 10 year
139	WTP Admin/Office Renovation Construct	0	Construct	0	0	1,086,810	0	0	0	0	0	0	0	1,086,810	0%	100%	0%	$0	$1,086,810	$0
140	WTP Fire Pump Load Shedding Design/SDC	0	Design/SDC	7,500	7,820	0	0	0	0	0	0	0	0	15,320	0%	100%	0%	$0	$15,320	$0
141	WTP Fire Pump with Load Shedding Construct	0	Construct	0	78,190	0	0	0	0	0	0	0	0	78,190	0%	100%	0%	$0	$78,190	$0
142	WTP Filter Bldg 2 Concrete Wall Repair Design/SDC	0	Design/SDC	0	41,700	43,470	0	0	0	0	0	0	0	85,170	0%	100%	0%	$0	$85,170	$0
143	WTP Filter Bldg 2 Concrete Wall Repair Construct	0	Construct	0	0	543,400	0	0	0	0	0	0	0	543,400	0%	100%	0%	$0	$543,400	$0
144	**WATER TREATMENT PLANT TOTALS**			$257,500	$362,270	$1,833,440	$580,100	$0	$0	$0	$0	$78,130	$1,099,530	4,210,970				0	4,085,970	125,000
145																				$0
146																				
147																				
148	WATER TREATMENT PLANT GENERAL TOTAL =			132,500	362,270	1,833,440	580,100	0	0	0	0	78,130	1,099,530	4,085,970						
149	WATER TREATMENT PLANT SIF TOTAL =			125,000	0	0	0	0	0	0	0	0	0	125,000						
150				0	0	0	0	0	0	0	0	0	0							
151																				
152	**WATER RESOURCES PROJECTS**																			
153	Windy Gap Firming (W038AA)	W038AA	Contract	4,356,080	0	0	0	0	0	0	0	0	0	4,356,080	100%	0%	0%	$4,356,080	$0	$0
154	Future Water Court Transfer Actions	W1709A	Design/SDC	100,000	0	0	0	0	0	0	0	0	0	100,000	100%	0%	0%	$100,000	$0	$0
155	Change of Heikes Water	0	Design/SDC	0	0	0	84,970	59,060	0	0	0	0	0	144,030	100%	0%	0%	$144,030	$0	$0
156	Purchase CBT Water (W1014A) years 2020, 2021, 2022	W1014A	Contract	500,000	521,250	543,400	0	0	0	0	0	0	0	1,564,650	100%	0%	0%	$1,564,650	$0	$0
157	Purchase CBT Water (W1014A) years 4 to 6	W1014A	Contract	0	0	0	566,500	0	0	0	0	0	0	566,500	100%	0%	0%	$566,500	$0	$0
158	Purchase CBT Water (W1014A) years 7 to 9	W1014A	Contract	0	0	0	0	0	0	0	0	0	0	0	100%	0%	0%	$0	$0	$0
159	Purchase CBT Water (W1014A) year 10	W1014A	Contract	0	0	0	0	0	0	0	0	0	0	0	100%	0%	0%	$0	$0	$0
160	Downstream Storage - Armoring Construct	W1901A	Construct	434,600	0	0	0	0	0	0	0	0	0	434,600	100%	0%	0%	$434,600	$0	$0
161	Downstream Storage - Phase 2 Design/SDC	0	Design/SDC	0	0	0	0	0	0	0	0	0	872,640	872,640	100%	0%	0%	$872,640	$0	$0
162	Downstream Storage - Phase 3 Construct	0	Construct	0	0	0	0	0	0	0	0	0	0	0	100%	0%	0%	$0	$0	$0
163	GRGR 18" Bypass Pipe Connections Design/SDC	W1902A	Design/SDC	120,000	0	0	0	0	0	0	0	0	0	120,000	100%	0%	0%	$120,000	$0	$0
164	GRGR 18" Bypass Pipe Connections Construct	W1902A	Construct	1,500,000	0	0	0	0	0	0	0	0	0	1,500,000	100%	0%	0%	$1,500,000	$0	$0
165	Great Western Pond #3 Water Rights Filing	0	Design/SDC	25,000	0	0	0	0	0	0	0	0	0	25,000	100%	0%	0%	$25,000	$0	$0
166	**WATER RESOURCES TOTAL**			$7,035,680	$521,250	$543,400	$651,470	$59,060	$0	$0	$0	$0	$872,640	9,683,500				9,683,500	0	0
167																				
168																				
169																				
170	**WATER GENERAL PLANT**																			
171	Service Center Renovations	W2004C	GP	250,000	0	0	0	0	0	0	0	0	0	250,000	0%	100%	0%	$0	$250,000	$0
172	Service Center Renovations (years 2, 3, & 4)	0	GP	0	101,640	105,960	110,470	0	0	0	0	0	0	318,070	0%	100%	0%	$0	$318,070	$0
173	Service Center Renovations (years 5, 6, & 7)	0	GP	0	0	0	0	115,160	120,060	125,160	0	0	0	360,380	0%	100%	0%	$0	$360,380	$0
174	Service Center Renovations (years 8, 9, & 10)	0	GP	0	0	0	0	0	0	0	130,480	136,020	141,800	408,300	0%	100%	0%	$0	$408,300	$0
175														0						
176	Lab Equipment	W2010C	GP	300,000	0	0	0	0	0	0	0	0	0	300,000	0%	100%	0%	$0	$300,000	$0
177	Lab Equipment Replacement	WA930	GP	0	0	0	0	0	0	0	401,470	0	0	401,470	0%	100%	0%	$0	$401,470	$0
178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	0%	$0	$0	$0
179	Stand Alone Server WPCD (now DCWP	WA930	GP	7,280	0	0	0	0	0	0	0	0	0	7,280	0%	100%	0%	$0	$7,280	$0
180	Utility Locator - Replacement	WA930	GP	9,800	0	0	0	0	0	0	0	0	0	9,800	0%	100%	0%	$0	$9,800	$0

Water 10 Year Capital Budget - For City

1	Project	Proj #	Type	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	10-Year Total (2020-2029)	Raw Water	General Unrestricted	SIF - Restricted	Raw Water - 10 year	General Unrestricted - 10 year	SIF - Restricted - 10 year
181	FME Safe Integration Software	WA930	GP	20,000	0	0	0	0	0	0	0	0	0	20,000	0%	100%	0%	$0	$20,000	$0
182	2015 Ford Escape #2110 (previously leased	WA930	GP	5,300	0	0	0	0	0	0	0	0	0	5,300	0%	100%	0%	$0	$5,300	$0
183	Replace #6141 3/4 ton 4WD, Crew Cab, Utility Body	WA930	GP	54,000	0	0	0	0	0	0	0	0	0	54,000	0%	100%	0%	$0	$54,000	$0
184	Replace #5122 Crane upgrading from 3,000# to 4,000#	WA930	GP	105,000	0	0	0	0	0	0	0	0	0	105,000	0%	100%	0%	$0	$105,000	$0
185	Replace #6144 with 1/2 ton 4WD w/utility box Metering	WA930	GP	37,500	0	0	0	0	0	0	0	0	0	37,500	0%	100%	0%	$0	$37,500	$0
186	Sonde - Replacement - this is to replace a unit every 5 years	WA930	GP	0	0	0	0	27,170	0	0	0	0	0	27,170	0%	100%	0%	$0	$27,170	$0
187	Total Organic Carbon Analyzer - Replacement	WA930	GP	0	0	0	0	0	0	0	0	0	36,360	36,360	0%	100%	0%	$0	$36,360	$0
188	0	WA930	GP	0	0	0	0	0	0	0	0	0	0	0	0%	100%	0%	$0	$0	$0
189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	100%	0%	$0	$0	$0
190	**WATER GENERAL PLANT TOTAL**			$788,880	$101,640	$105,960	$110,470	$142,330	$120,060	$125,160	$531,950	$136,020	$178,160	2,340,630				0	2,340,630	0
191	Total Water General capital			$6,045,980	$3,283,252	$5,945,798	$5,826,434	$4,450,897	$6,410,854	$8,969,840	$12,003,970	$7,034,840	$11,177,084	$71,148,949						
192	**TOTAL WATER CIP**			$20,813,060	$4,199,200	$9,887,210	$14,183,410	$16,810,580	##########	$12,355,680	$12,124,410	$8,639,210	$25,102,980	137,109,030			Total =	9,683,500	71,148,970	56,276,590
193	**Total Water less Raw Water CIP**			$13,777,380	$3,677,950	$9,343,810	$13,531,940	$16,751,520	##########	$12,355,680	$12,124,410	$8,639,210	$24,230,340	127,425,530						$30
194	**Wtr SIF Capital**			7,731,400	394,698	3,398,012	7,705,506	12,300,623	6,582,436	3,385,840	120,440	1,604,370	13,053,256	56,276,581						
195	**Raw Water Capital**			**$7,035,680**	**$521,250**	**$543,400**	**$651,470**	**$59,060**	**$0**	**$0**	**$0**	**$0**	**$872,640**	**9,683,500**						

2020 Wastewater 10 Year Capital - For City

	Project	Proj #	Design/SDC or Construct		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	10-Year Total (2020-2029)	General Unrestricted	SIF - Restricted	General Unrestricted - 10 Year	SIF - Restricted - 10 Year
1																			
2	**WASTEWATER LINE REPLACEMENT PROJECTS**																		
3	**New Wastewater Lines:**				0	0	0	0	0	0	0	0	0	0	$0	0%	0%	$0	$0
4	Highway 402 Wastewater Main Extension Design/SDC	0	Design/SDC		0	0	217,360	1,076,350	0	0	0	0	0	0	$1,293,710	0%	100%	$0	$1,293,710
5	Highway 402 Wastewater Main Extension - Design/SDC	0	Design/SDC		0	0	0	0	1,358,320	0	0	0	0	0	$1,358,320	0%	100%	$0	$1,358,320
6	Highway 402 Wastewater Main Extension Construct	0	Construct		0	0	0	0	13,583,200	0	0	0	0	0	$13,583,200	0%	100%	$0	$13,583,200
7	East Side Discharge Trunk to WWTP Design/SDC	0	Design/SDC		0	0	0	0	0	0	0	0	0	0	$0	0%	100%	$0	$0
8	East Side Discharge Trunk to WWTP Construct	0	Construct		0	0	0	0	0	0	0	0	0	0	$0	0%	100%	$0	$0
9	Upper Boyd Basin Sanitary Sewer Design/SDC	0	Design/SDC		0	552,530	576,010	0	0	0	0	0	0	0	$1,128,540	10%	90%	$112,854	$1,015,686
10	Upper Boyd Basin Sanitary Sewer Construct	0	Construct		0	0	5,760,070	0	0	0	0	0	0	0	$5,760,070	10%	90%	$576,007	$5,184,063
11	Abandon WWTP Sewer Re-route Design/SDC	W1901G	Design/SDC		28,000	0	0	0	0	0	0	0	0	0	$28,000	100%	0%	$28,000	$0
12	Abandon WWTP Sewer Re-route Construct	W1901G	Construct		350,000	0	0	0	0	0	0	0	0	0	$350,000	100%	0%	$350,000	$0
13	43rd Street Sewer Solution Design/SDC	0	Design/SDC		0	114,680	119,550	0	0	0	0	0	0	0	$234,230	10%	90%	$23,423	$210,807
14	43rd Street Sewer Solution Construct	0	Construct		0	0	1,195,490	0	0	0	0	0	0	0	$1,195,490	10%	90%	$119,549	$1,075,941
15	East 1st Street (FM) Discharge Vault Design/SDC	W2001G	Design/SDC		30,000	0	0	0	0	0	0	0	0	0	$30,000	100%	0%	$30,000	$0
16	East 1st Street (FM) Discharge Vault Construct	W2001G	Construct		250,000	0	0	0	0	0	0	0	0	0	$250,000	100%	0%	$250,000	$0
17	Sherri Mar (S. Colorado) 15" Sanitary Sewer Design/SDC	W2002H	Design/SDC		70,000	0	0	0	0	0	0	0	0	0	$70,000	0%	100%	$0	$70,000
18	Sherri Mar (S. Colorado) 15" Sanitary Sewer Construct	W2002H	Construct		700,000	0	0	0	0	0	0	0	0	0	$700,000	0%	100%	$0	$700,000
19					0	0	0	0	0	0	0	0	0	0	$0	0%	0%	$0	$0
20	**Rehab Wastewater Lines:**				0	0	0	0	0	0	0	0	0	0	$0	0%	0%	$0	$0
21	2020 CIPP Sewer Rehab Construct	W2002G	Construct		1,000,000	0	0	0	0	0	0	0	0	0	$1,000,000	100%	0%	$1,000,000	$0
22	2021 CIPP Sewer Rehab Construct	0	Construct		0	1,042,500	0	0	0	0	0	0	0	0	$1,042,500	100%	0%	$1,042,500	$0
23	2022 CIPP Sewer Rehab Construct	0	Construct		0	0	706,420	0	0	0	0	0	0	0	$706,420	100%	0%	$706,420	$0
24	2023 CIPP Sewer Rehab Construct	0	Construct		0	0	0	2,265,990	0	0	0	0	0	0	$2,265,990	100%	0%	$2,265,990	$0
25	2024 CIPP Sewer Rehab Construct	0	Construct		0	0	0	0	2,362,300	0	0	0	0	0	$2,362,300	100%	0%	$2,362,300	$0
26	2025 CIPP Sewer Rehab Construct	0	Construct		0	0	0	0	0	4,309,710	0	0	0	0	$4,309,710	100%	0%	$4,309,710	$0
27	2026 CIPP Sewer Rehab Construct	0	Construct		0	0	0	0	0	0	3,851,040	0	0	0	$3,851,040	100%	0%	$3,851,040	$0
28	2027 CIPP Sewer Rehab Construct	0	Construct		0	0	0	0	0	0	0	4,014,710	0	0	$4,014,710	100%	0%	$4,014,710	$0
29	2028 CIPP Sewer Rehab Construct	0	Construct		0	0	0	0	0	0	0	0	4,185,330	0	$4,185,330	100%	0%	$4,185,330	$0
30	2029 CIPP Sewer Rehab Construct	0	Construct		0	0	0	0	0	0	0	0	0	4,363,210	$4,363,210	100%	0%	$4,363,210	$0
31					0	0	0	0	0	0	0	0	0	0	$0	0%	0%	$0	$0
32	**Large Projects:**				0	0	0	0	0	0	0	0	0	0	$0	0%	0%	$0	$0
33	North Horseshoe Lift Station Upgrades Design/SDC	W2003G	Design/SDC		60,000	62,550	0	0	0	0	0	0	0	0	$122,550	100%	0%	$122,550	$0
34	North Horseshoe Lift Station Upgrades Construct	W2003G	Construct		0	625,500	0	0	0	0	0	0	0	0	$625,500	100%	0%	$625,500	$0
35	East Side Lift Station 3rd Pump Install Design/SDC	0	Design/SDC		0	0	0	0	0	36,940	38,510	0	0	0	$75,450	0%	100%	$0	$75,450
36	East Side Lift Station 3rd Pump Install Construct	0	Construct		0	0	0	0	0	0	385,100	0	0	0	$385,100	0%	100%	$0	$385,100
37	Southside Lift Station Generator Design/SDC	0	Design/SDC		0	0	43,470	45,320	0	0	0	0	0	0	$88,790	100%	0%	$88,790	$0
38	Southside Lift Station Generator Construct	0	Construct		0	0	0	679,800	0	0	0	0	0	0	$679,800	100%	0%	$679,800	$0
39	Bus Barn & Taft Lift Station Renovations Design/SDC	W2004G	Design/SDC		150,000	0	0	0	0	0	0	0	0	0	$150,000	100%	0%	$150,000	$0
40	Bus Barn & Taft Lift Station Renovations Construct	W2004G	Construct		950,000	0	0	0	0	0	0	0	0	0	$950,000	100%	0%	$950,000	$0
41	East Side Lift Station Overflow Vault Design/SDC	0	Design/SDC		0	0	0	0	0	86,190	89,860	0	0	0	$176,050	50%	50%	$88,025	$88,025
42	East Side Lift Station Overflow Vault Construct	0	Construct		0	0	0	0	0	0	898,580	0	0	0	$898,580	50%	50%	$449,290	$449,290
43	Boedecker Lift Station Generator Replacement Construct	0	Construct		0	0	0	226,600	0	0	0	0	0	0	$226,600	100%	0%	$226,600	$0
44	Boyd Lift Station Generator Replacement Construct	0	Construct		0	0	0	226,600	0	0	0	0	0	0	$226,600	100%	0%	$226,600	$0
45	Lakes Place Lift Station (HOA Fund) Construct	0	Construct		0	0	0	0	0	0	0	0	0	0	$0	0%	0%	$0	$0
46	Service Center Expansion Construct	0	Construct		0	0	0	0	0	0	4,428,690	0	0	0	$4,428,690	50%	50%	$2,214,345	$2,214,345
47					0	0	0	0	0	0	0	0	0	0	$0	0%	0%	$0	$0
48	**Miscellaneous:**				0	0	0	0	0	0	0	0	0	0	$0	0%	0%	$0	$0
49	Oversizing & Extensions Agreement Construct	W1232H	Construct		75,000	78,190	81,510	84,970	88,590	92,350	96,280	100,370	104,630	109,080	$910,970	0%	100%	$0	$910,970
50	Anderson 1st Oversizing Construct	0	Construct		0	417,000	0	0	0	0	0	0	0	0	$417,000	0%	100%	$0	$417,000
51	Waters Edge Oversizing Construct	0	Construct		0	0	0	0	0	0	0	0	0	0	$0	0%	100%	$0	$0
52	**WASTEWATER LINE REPLACEMENTS/LARGE PROJECTS**				$3,663,000	$2,892,950	$8,699,880	$4,605,630	$17,392,410	$4,525,190	$9,788,060	$4,115,080	$4,289,960	$4,472,290	$64,444,450			$35,412,543	$29,031,907
53																			
54	**WASTEWATER TREATMENT PLANT PROJECTS**																		
55	WWTP Final Clarifier #4 and RAS/Scum Design/SDC	0	Design/SDC		0	0	0	0	0	0	0	0	0	727,200	$727,200	20%	80%	$145,440	$581,760
56	WWTP Final Clarifier #4 and RAS/Scum Construct	0	Construct		0	0	0	0	0	0	0	0	0	0	$0	20%	80%	$0	$0
57	WWTP Primary Clarifier #3 & Trickling Filter Demo	0	Design/SDC		0	0	0	0	0	0	0	0	0	436,320	$436,320	20%	80%	$87,264	$349,056
58	WWTP Primary Clarifier #3 & Trickling Filter Demo Construct	0	Construct		0	0	0	0	0	0	0	0	0	0	$0	20%	80%	$0	$0
59	WWTP Digested Sludge Dewatering Design/SDC	0	Design/SDC		0	0	0	0	0	0	0	0	0	2,181,600	$2,181,600	75%	25%	$1,636,200	$545,400
60	WWTP Digested Sludge Dewatering Construct	0	Construct		0	0	0	0	0	0	0	0	0	0	$0	75%	25%	$0	$0
61	WWTP Upgrade PLC Processors Design/SDC	0	Design/SDC		0	36,490	0	0	0	0	0	0	0	0	$36,490	100%	0%	$36,490	$0
62	WWTP Upgrade PLC Processors Construct	0	Construct		0	364,880	0	0	0	0	0	0	0	0	$364,880	100%	0%	$364,880	$0

	Project	Proj #	Design/SDC or Construct		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	10-Year Total (2020-2029)	General Unrestricted	SIF - Restricted	General Unrestricted - 10 Year	SIF - Restricted - 10 Year
1																			
63	WWTP Rehabilitate Digester 1 & 2 Design/SDC	0	Design/SDC		0	260,630	543,400	0	0	0	0	0	0	0	$804,030	100%	0%	$804,030	$0
64	WWTP Rehabilitate Digester 1 & 2 Construct	0	Construct		0	0	5,434,030	0	0	0	0	0	0	0	$5,434,030	100%	0%	$5,434,030	$0
65	WWTP Primary Clarifier Odor Control Design/SDC	0	Design/SDC		0	0	81,510	0	0	0	0	0	0	0	$81,510	100%	0%	$81,510	$0
66	WWTP Primary Clarifier Odor Control - Design/SDC	0	Design/SDC		0	0	0	226,600	236,230	0	0	0	0	0	$462,830	100%	0%	$462,830	$0
67	WWTP Primary Clarifier Odor Control Construct	0	Construct		0	0	0	0	2,362,300	0	0	0	0	0	$2,362,300	100%	0%	$2,362,300	$0
68	WWTP Admin Remodel Design/SDC	W2005G	Design/SDC		100,000	0	0	0	0	0	0	0	0	0	$100,000	100%	0%	$100,000	$0
69	WWTP Admin Remodel Construct	W2005G	Construct		1,000,000	0	0	0	0	0	0	0	0	0	$1,000,000	100%	0%	$1,000,000	$0
70	WWTP Entrance Gates w/Security Cameras Design/SDC	0	Design/SDC		0	33,360	0	0	0	0	0	0	0	0	$33,360	100%	0%	$33,360	$0
71	WWTP Entrance Gates w/Security Cameras Construct	0	Construct		0	417,000	0	0	0	0	0	0	0	0	$417,000	100%	0%	$417,000	$0
72	IPS Wetwell Bypass & Coating Design/SDC	0	Design/SDC		0	0	0	0	0	184,700	192,550	0	0	0	$377,250	100%	0%	$377,250	$0
73	IPS Wetwell Bypass & Coating Construct	0	Construct		0	0	0	0	0	0	1,925,520	0	0	0	$1,925,520	100%	0%	$1,925,520	$0
74	Replace HVAC Unit on WAS (Waste Activated Sludge)	W2006G	Construct		25,000	0	0	0	0	0	0	0	0	0	$25,000	100%	0%	$25,000	$0
75	**WASTEWATER TREATMENT PLANT TOTAL**				$1,125,000	$1,112,360	$6,058,940	$226,600	$2,598,530	$184,700	$2,118,070	$0	$0	$3,345,120	$16,769,320			$15,293,104	$1,476,216
76																			
77	**WASTEWATER GENERAL PLANT - make sure Decision Packets are turned in for these:**																		
78	Lab Equipment for the New WQ Lab-Wastewater	W2010G	GP		300,000	0	0	0	0	0	0	0	0	0	$300,000				
79	Lab Equipment Replacement - every 8 years	0	GP		0	0	0	0	0	0	0	0	418,530	0	$418,530				
80	Miscellaneous Hardware Failures	WW930	GP		7,500	0	0	0	0	0	0	0	0	0	$7,500				
81	Purchase leased Vehicle #2111 - 2015 Ford Escape	WW930	GP		5,100	0	0	0	0	0	0	0	0	0	$5,100				
82	New Staging Server	WW930	GP		8,000	0	0	0	0	0	0	0	0	0	$8,000				
83	Integrated Voice Recognition Communication (IVR)	WW930	GP		300,000	0	0	0	0	0	0	0	0	0	$300,000				
84	Replace Vehicle #6307 w/like Tandem Axle Dump Truck	WW930	GP		165,000	0	0	0	0	0	0	0	0	0	$165,000				
85	Replace #6139 w/like 1 Ton, 4WD, DRW, Ext Cab	WW930	GP		56,000	0	0	0	0	0	0	0	0	0	$56,000				
86	**WASTEWATER GENERAL PLANT TOTAL**				841,600	0	0	0	0	0	0	0	418,530	0	1,260,130				

Power Ten Year CIP Plan for City

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Project	Project #	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	5-Year Total (2020-2024)	10-Year Total (2020-2029)	General Unrestricted	SIF - Restricted	General Unrestricted - 5 year	PIF - Restricted - 5 year	General Unrestricted - 10 year	PIF - Restricted - 10 year
2	**CAPITAL BLANKETS**																			
3	Hydro Generation	PW900	0	0	0	0	0	0	0	0	0	0	0	0	100%	0%	$0	$0	$0	$0
4	Overhead Distribution Lines	PW901	25,000	26,060	27,170	28,320	29,530	30,780	32,090	33,460	34,880	36,360	136,080	303,650	100%	0%	$136,080	$0	$303,650	$0
5	Underground Distribution Lines	PW902	200,000	208,500	217,360	226,600	236,230	246,270	256,740	267,650	279,020	290,880	1,088,690	2,429,250	100%	0%	$1,088,690	$0	$2,429,250	$0
6	Meter purchases/installs/upgrades	PW903	500,000	521,250	543,400	566,500	590,570	615,670	641,840	669,120	697,560	727,200	2,721,720	6,073,110	100%	0%	$2,721,720	$0	$6,073,110	$0
7	Distribution transformers	PW904	150,000	156,370	163,020	169,950	177,170	184,700	192,550	200,730	209,270	218,160	816,510	1,821,920	100%	0%	$816,510	$0	$1,821,920	$0
8	Substation	PW905	0	0	0	0	0	0	0	0	0	0	0	0	100%	0%	$0	$0	$0	$0
9	Street lights & Yard lights	PW906	350,000	364,880	380,380	396,550	413,400	430,970	449,290	468,380	488,290	509,040	1,905,210	4,251,180	100%	0%	$1,905,210	$0	$4,251,180	$0
10	Overhead Service installations/upgrades	PW907	10,000	10,430	10,870	11,330	11,810	12,310	12,840	13,380	13,950	14,540	54,440	121,460	100%	0%	$54,440	$0	$121,460	$0
11	Underground Service installations/upgrades	PW908	250,000	260,630	271,700	283,250	295,290	307,840	320,920	334,560	348,780	363,600	1,360,870	3,036,570	100%	0%	$1,360,870	$0	$3,036,570	$0
12	Temporary Service installations	PW909	50,000	52,130	54,340	56,650	59,060	61,570	64,180	66,910	69,760	72,720	272,180	607,320	100%	0%	$272,180	$0	$607,320	$0
13	**CAPITAL BLANKETS TOTAL**		1,535,000	1,600,250	1,668,240	1,739,150	1,813,060	1,890,110	1,970,450	2,054,190	2,141,510	2,232,500	8,355,700	18,644,460			8,355,700	0	18,644,460	0
14																		0		0
15	GENERAL (UNRESTRICTED) TOTAL =		1,535,000	1,600,250	1,668,240	1,739,150	1,813,060	1,890,110	1,970,450	2,054,190	2,141,510	2,232,500	8,355,700	18,644,460						
16	PIF (RESTRICTED) TOTAL =		0	0	0	0	0	0	0	0	0	0	0	0						
17			0	0	0	0	0	0	0	0	0	0	0	0						
18	**SPECIFIC PROJECTS**																			
19	**HYDRO GENERATION**		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
20	0	PW910	0	0	0	0	0	0	0	0	0	0	0	0	100%	0%	$0	$0	$0	$0
21	**SUBSTATION**		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
22	Capital Maintenance	PW911	150,000	156,380	163,020	169,950	177,170	184,700	192,550	200,740	209,270	218,160	816,520	1,821,940	100%	0%	$816,520	$0	$1,821,940	$0
23	Security gates and fences at Substations	PW911	650,000	677,630	706,420	736,447	767,746	0	0	0	0	0	3,538,243	3,538,243	100%	0%	$3,538,240	$0	$3,538,240	$0
24	Relay Replacements at Substations - Airport	PW911	0	234,560	0	0	0	0	0	0	0	0	234,560	234,560	100%	0%	$234,560	$0	$234,560	$0
25	East Substation - Replace Transformer E1	PW911	600,000	0	0	0	0	0	0	0	0	0	600,000	600,000	100%	0%	$600,000	$0	$600,000	$0
26	East Substation - Order and Install Transformer E2	PW911	0	0	0	0	0	0	1,001,270	0	0	0	0	1,001,270	100%	0%	$0	$0	$1,001,270	$0
27	Substation Annunciators	PW911	150,000	157,200	0	0	0	0	0	0	0	0	307,200	307,200	100%	0%	$307,200	$0	$307,200	$0
28	Airport Substation - Order and Install Switchgear and Transformer A1 and A2	PW911	0	0	2,130,140	0	0	0	0	0	0	0	2,130,140	2,130,140	100%	0%	$2,130,140	$0	$2,130,140	$0
29	Valley Substation - Order and Install Transformer V1	PW911	0	0	0	0	0	886,570	0	0	0	0	0	886,570	100%	0%	$0	$0	$886,570	$0
31	Order and Install of Switchgear for H1 & H2	PW911	700,000	0	0	0	0	0	0	0	0	0	700,000	700,000	100%	0%	$700,000	$0	$700,000	$0
34	**CUSTOMER ATC**		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
35	Transformers	PW904	450,000	469,130	489,060	509,850	531,520	554,110	577,660	602,210	627,800	654,480	2,449,560	5,465,820	100%	0%	$2,449,560	$0	$5,465,820	$0
36	Labor/Fleet & Other Materials	PW912	1,260,000	1,313,550	1,586,740	1,654,170	1,724,480	1,797,770	1,874,170	1,953,820	2,036,860	2,123,430	7,538,940	17,324,990	100%	0%	$7,538,940	$0	$17,324,990	$0
37	open	PW912	0	0	0	0	0	0	0	0	0	0	0	0	100%	0%	$0	$0	$0	$0
38	**SYSTEM IMPROVEMENTS**		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
39	Underground blanket-development driven construction of lateral feeder extentions as required to meet new load requirements	PW913	150,000	156,380	163,020	169,950	177,170	184,700	192,550	200,740	209,270	218,160	816,520	1,821,940	100%	0%	$816,520	$0	$1,821,940	$0
40	Demand Response	PW913	150,000	156,380	163,020	169,950	177,170	184,700	192,550	200,740	209,270	218,160	816,520	1,821,940	100%	0%	$816,520	$0	$1,821,940	$0
41	Smaller Aging Infrastructure Replacement Projects - Unplanned	PW913	375,000	390,940	407,550	424,870	442,930	461,750	481,380	501,840	523,170	545,400	2,041,290	4,554,830	100%	0%	$2,041,290	$0	$4,554,830	$0
42	Distribution Automation	PW913	110,000	114,680	119,550	124,630	129,930	135,450	141,200	147,210	153,460	159,980	598,790	1,336,090	100%	0%	$598,790	$0	$1,336,090	$0
43	Planned Future Projects - General	PW913	0	0	0	1,869,440	1,771,720	1,859,330	2,952,460	4,215,440	3,766,800	3,926,890	3,641,160	20,362,080	100%	0%	$3,641,160	$0	$20,362,080	$0
44	Planned Future Projects - Worst Performing Feeders	PW913	0	0	0	0	0	0	2,567,358	2,676,470	2,790,220	2,908,805	0	10,942,853	100%	0%	$0	$0	$10,942,850	$0
45	Energy Diversification Projects	PW913	300,000	312,750	326,040	339,900	354,340	369,400	385,100	401,470	418,530	436,320	1,633,030	3,643,850	100%	0%	$1,633,030	$0	$3,643,850	$0
46	200 AMP Cable Replacement - Planned	PW913	300,000	312,750	326,040	339,900	354,340	369,400	385,100	401,470	418,530	436,320	1,633,030	3,643,850	100%	0%	$1,633,030	$0	$3,643,850	$0
47	1 - Install 600 amp tie from Cascade west along Hwy 34, turning south on Rossum to Saint Andrews	PW913	0	0	0	0	0	0	0	0	0	65,450	0	65,450	100%	0%	$0	$0	$65,450	$0
49	3 - Extend new feeders from Foothills Substation from W. 22nd & Rio Blanco to Rossum and Eisenhower	PW913	400,000	0	0	0	0	0	0	0	0	0	400,000	400,000	100%	0%	$400,000	$0	$400,000	$0
52	45 - Transfer West Substation Circuit 914 to Foothills Substation	PW913	500,000	0	0	0	0	0	0	0	0	0	500,000	500,000	100%	0%	$500,000	$0	$500,000	$0
53	0	PW913	0	0	0	0	0	0	0	0	0	0	0	0	100%	0%	$0	$0	$0	$0
54	**CONVERSION PROJECTS**		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
55	Conversion Capital Maintenance	PW914	300,000	312,750	326,040	339,900	354,340	369,400	385,100	401,470	418,530	436,320	1,633,030	3,643,850	100%	0%	$1,633,030	$0	$3,643,850	$0
56	4 - Overhead to underground conversion Wilson Ave & Carlisle to SW 10th & Tyler	PW914	0	677,630	0	0	0	0	0	0	0	0	677,630	677,630	100%	0%	$677,630	$0	$677,630	$0
57	39 - Overhead to underground conversion (circuit 214) on Eisenhower from Gorom to Madison - Downtown Backbone	PW914	510,000	0	0	0	0	0	0	0	0	0	510,000	510,000	100%	0%	$510,000	$0	$510,000	$0
58	6 - Overhead to underground conversion along 29th St from Madison to Hwy 287	PW914	0	781,880	0	0	0	0	0	0	0	0	781,880	781,880	100%	0%	$781,880	$0	$781,880	$0
59	8 - Overhead to underground conversion (circuits 222 & 221) from 11th along Madison to 1st	PW914	30,000	474,340	0	0	0	0	0	0	0	0	504,340	504,340	100%	0%	$504,340	$0	$504,340	$0
60	9 - Overhead to underground conversion (circuit 713) from 402 & Lincoln N to 1st St	PW914	0	0	0	45,320	956,730	0	0	0	0	0	1,002,050	1,002,050	100%	0%	$1,002,050	$0	$1,002,050	$0
61	10 - Overhead to underground conversion (circuit 411) along S. Taft from 20th St. SW to 23rd St. SW.	PW914	0	0	0	45,320	838,610	0	0	0	0	0	883,930	883,930	100%	0%	$883,930	$0	$883,930	$0
62	12 - Overhead to underground conversion (circuit 411) on railroad right of way from Taft to Grant	PW914	0	0	597,740	0	0	0	0	0	0	0	597,740	597,740	100%	0%	$597,740	$0	$597,740	$0
63	13 - Overhead to underground conversion along 14th St. SW between Roosevelt & S. Taft Ave.	PW914	0	20,850	630,350	0	0	0	0	0	0	0	651,200	651,200	100%	0%	$651,200	$0	$651,200	$0
64	14 - Overhead to underground conversion along 14th St. SE from St. Louis going .26 miles east	PW914	10,000	406,580	0	0	0	0	0	0	0	0	416,580	416,580	100%	0%	$416,580	$0	$416,580	$0

Power Ten Year CIP Plan for City

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Project	Project #	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	5-Year Total (2020-2024)	10-Year Total (2020-2029)	General Unrestricted	SIF - Restricted	General Unrestricted - 5 year	PIF - Restricted - 5 year	General Unrestricted - 10 year	PIF - Restricted - 10 year
65	15 - Overhead to underground conversion along Madison between 16th & SW257 along ckt 231	PW914	0	0	54,340	1,076,350	0	0	0	0	0	0	1,130,690	1,130,690	100%	0%	$1,130,690	$0	$1,130,690	$0
66	16 - Overhead to underground conversion along Madison between 29th and vault 1023 - 200 amp	PW914	0	0	0	0	11,810	480,230	0	0	0	0	11,810	492,040	100%	0%	$11,810	$0	$492,040	$0
68	18 - Overhead to underground conversion on 29th - Logan to Garfield	PW914	0	781,880	0	0	0	0	0	0	0	0	781,880	781,880	100%	0%	$781,880	$0	$781,880	$0
69	34 - Overhead to underground conversion on S. Roosevelt	PW914	0	0	0	0	1,417,380	0	0	0	0	0	1,417,380	1,417,380	100%	0%	$1,417,380	$0	$1,417,380	$0
70	40 - Overhead to underground conversion circuit 214 - Eisenhower between Madison and Boise - Downtown Backbone	PW914	0	0	499,930	0	0	0	0	0	0	0	499,930	499,930	100%	0%	$499,930	$0	$499,930	$0
71	36 - Overhead to underground conversion circuit 214 - RR between 3rd and 7th - Downtown Backbone	PW914	0	0	0	487,190	0	0	0	0	0	0	487,190	487,190	100%	0%	$487,190	$0	$487,190	$0
72	37 - Overhead to underground conversion circuit 214 - 7th between RR and Monroe - Downtown Backbone	PW914	0	0	679,250	0	0	0	0	0	0	0	679,250	679,250	100%	0%	$679,250	$0	$679,250	$0
73	38 - Overhead to underground conversion circuit 214 - Monroe between 7th and 11th - Downtown Backbone	PW914	0	448,280	0	0	0	0	0	0	0	0	448,280	448,280	100%	0%	$448,280	$0	$448,280	$0
74	41 - Overhead to underground conversion circuit 214 - Gorom between Eisenhower and 11th - Downtown Backbone	PW914	230,000	0	0	0	0	0	0	0	0	0	230,000	230,000	100%	0%	$230,000	$0	$230,000	$0
75	46 - Overhead to Underground conversion - Highway 287 from 29th St to 41st St	PW914	1,000,000	0	0	0	0	0	0	0	0	0	1,000,000	1,000,000	100%	0%	$1,000,000	$0	$1,000,000	$0
76	47 - Overhead to Underground conversion - Highway 287 from 41st St to 57th St	PW914	0	1,042,500	0	0	0	0	0	0	0	0	1,042,500	1,042,500	100%	0%	$1,042,500	$0	$1,042,500	$0
77	48 - Overhead to Underground conversion - Highway 287 from 57th St to 71st St	PW914	0	0	1,086,810	0	0	0	0	0	0	0	1,086,810	1,086,810	100%	0%	$1,086,810	$0	$1,086,810	$0
78	0	PW914	0	0	0	0	0	0	0	0	0	0	0	0	100%	0%	$0	$0	$0	$0
79	**ROAD RELATED PROJECTS**		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
80	Miscellaneous Small Projects	PW913	100,000	104,250	108,680	283,250	295,290	307,840	320,920	334,560	348,780	363,600	891,470	2,567,170	100%	0%	$891,470	$0	$2,567,170	$0
81	19 - Reconductor 921 on N Taft Ave from railroad right of way to Eisenhower	PW913	470,250	0	0	0	0	0	0	0	0	0	470,250	470,250	100%	0%	$470,250	$0	$470,250	$0
83	0	PW913	0	0	0	0	0	0	0	0	0	0	0	0	100%	0%	$0	$0	$0	$0
84	**STREET LIGHT PROJECTS**		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
85	Arterials/Major Collectors	PW915	150,000	156,380	163,020	169,950	177,170	184,700	192,550	200,740	209,270	218,160	816,520	1,821,940	100%	0%	$816,520	$0	$1,821,940	$0
86	Customer requests/Miscellaneous projects	PW915	100,000	104,250	108,680	113,300	118,110	123,130	128,370	133,820	139,510	145,440	544,340	1,214,610	100%	0%	$544,340	$0	$1,214,610	$0
87	0		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
88	**TOTAL SPECIFIC PROJECTS**		9,145,250	9,763,900	10,835,440	9,069,637	10,777,956	8,453,180	11,970,288	12,572,740	12,479,270	13,075,075	49,592,183	108,142,736			49,592,180	0	108,142,730	0
89																		0		0
90	HYDRO GENERATION (GENERAL) =		0	0	0	0	0	0	0	0	0	0	0	0						
91	SUBSTATION (GENERAL) =		2,250,000	1,225,770	2,999,580	906,397	944,916	1,071,270	1,193,820	200,740	209,270	218,160	8,326,663	11,219,923						
92	CUSTOMER ATC (GENERAL) =		1,710,000	1,782,680	2,075,800	2,164,020	2,256,000	2,351,880	2,451,830	2,556,030	2,664,660	2,777,910	9,988,500	22,790,810						
93	SYSTEM IMPROVEMENTS (GENERAL) =		2,285,000	1,443,880	1,505,220	3,438,640	3,407,600	3,564,730	7,297,698	8,745,380	8,489,250	8,915,485	12,080,340	49,092,883						
94	CONVERSIONS (GENERAL) =		2,080,000	4,946,690	3,874,460	1,994,080	3,578,870	849,630	385,100	401,470	418,530	436,320	16,474,100	18,965,150						
95	ROAD RELATED PROJECTS (GENERAL) =		570,250	104,250	108,680	283,250	295,290	307,840	320,920	334,560	348,780	363,600	1,361,720	3,037,420						
96	STREET LIGHT PROJECTS (GENERAL) =		250,000	260,630	271,700	283,250	295,280	307,830	320,920	334,560	348,780	363,600	1,360,860	3,036,550						
97			0	0	0	0	0	0	0	0	0	0	0	0						

Power Ten Year CIP Plan for City

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Project	Project #	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	5-Year Total (2020-2024)	10-Year Total (2020-2029)	General Unrestricted	SIF - Restricted	General Unrestricted - 5 year	PIF - Restricted - 5 year	General Unrestricted - 10 year	PIF - Restricted - 10 year
98	**PLANT INVESTMENT FEE PROJECTS**																			
99	**SUBSTATION PIF PROJECTS**		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
100	Valley Substation - V3 Switchgear and Transformer	PW920	0	0	2,336,630	0	0	0	0	0	0	0	2,336,630	2,336,630	0%	100%	$0	$2,336,630	$0	$2,336,630
103	Valley Substation - Order & Install Transformer V1	PW920	0	0	0	0	0	591,050	0	0	0	0	0	591,050	0%	100%	$0	$0	$0	$591,050
104	Airport Substation - Order & Install Switchgear and Transformer A1 & A2	PW920	0	0	532,540	0	0	0	0	0	0	0	532,540	532,540	0%	100%	$0	$532,540	$0	$532,540
105	Horseshoe Substation - Install new switchgear for H1 & H2	PW920	700,000	0	0	0	0	0	0	0	0	0	700,000	700,000	0%	100%	$0	$700,000	$0	$700,000
106	New Substation in SE corner of service territory	PW920	0	0	0	0	6,960,820	0	0	0	0	0	6,960,820	6,960,820	0%	100%	$0	$6,960,820	$0	$6,960,820
107	Replace Airport Substation Transformer	PW920	0	938,250	0	0	0	0	0	0	0	0	938,250	938,250	0%	100%	$0	$938,250	$0	$938,250
108	Foothills Substation - Order & Install F3 & F4 Transformers	PW920	0	0	0	0	0	0	0	3,345,590	0	0	0	3,345,590	0%	100%	$0	$0	$0	$3,345,590
109	Replace Horseshoe Substation Transformer H1	PW920	0	0	0	0	0	0	0	0	1,255,600	0	0	1,255,600	0%	100%	$0	$0	$0	$1,255,600
110	Land Purchase	PW920	700,000	0	0	0	0	0	0	0	0	0	700,000	700,000	0%	100%	$0	$700,000	$0	$700,000
111	Land Development	PW920	900,000	0	0	0	0	0	0	0	0	0	900,000	900,000	0%	100%	$0	$900,000	$0	$900,000
112	East Substation - Order & Install Transformer E2	PW920	0	0	0	0	0	0	667,510	0	0	0	0	667,510	0%	100%	$0	$0	$0	$667,510
113	East Substation - Order and Install new Transformer - E1	PW920	400,000	0	0	0	0	0	0	0	0	0	400,000	400,000	0%	100%	$0	$400,000	$0	$400,000
114	0	PW920	0	0	0	0	0	0	0	0	0	0	0	0	0%	100%	$0	$0	$0	$0
115	**FEEDER PIF PROJECTS**		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
116	Blanket-development driven construction of miscellaneous primary feeder extentions as required to meet new load requirements	PW921	150,000	156,380	163,020	169,950	177,170	184,700	192,550	200,740	209,270	218,160	816,520	1,821,940	0%	100%	$0	$816,520	$0	$1,821,940
117	21 - Feeder from Foothills to Hunters Run	PW921	1,500,000	0	0	0	0	0	0	0	0	0	1,500,000	1,500,000	0%	100%	$0	$1,500,000	$0	$1,500,000
118	22 - Install conduits from Byrd Dr to I25 Frontage Rd, connecting at Kendall Pkwy	PW921	900,000	0	0	0	0	0	0	0	0	0	900,000	900,000	0%	100%	$0	$900,000	$0	$900,000
119	44 - Install 750 AL from MCR to Kendall Pkwy & I25 - sub to sub tie between Crossroads and Airport	PW921	400,000	0	0	0	0	0	0	0	0	0	400,000	400,000	0%	100%	$0	$400,000	$0	$400,000
120	23 - Sub to Sub Tie - Install new conduit bank and 750 AL from Garfield to CR 11	PW921	0	0	0	906,400	0	0	0	0	0	0	906,400	906,400	0%	100%	$0	$906,400	$0	$906,400
121	24 - Sub to Sub Tie - Install new conduit bank and 750 AL from 57th and Taft to vault V1780.	PW921	0	0	54,340	793,100	0	0	0	0	0	0	847,440	847,440	0%	100%	$0	$847,440	$0	$847,440
122	25 - Foothills Substation Conduit - Install new conduit along W. 22nd east from Rio Blanco to Van Buren	PW921	0	0	0	0	0	0	1,925,520	0	0	0	0	1,925,520	0%	100%	$0	$0	$0	$1,925,520
123	26 - Extend new feeders from Valley V3 into system	PW921	0	0	54,340	1,586,190	0	0	0	0	0	0	1,640,530	1,640,530	0%	100%	$0	$1,640,530	$0	$1,640,530
124	42 - Extend new feeders from East Sub to Boise and 402	PW921	500,000	0	0	0	0	0	0	0	0	0	500,000	500,000	0%	100%	$0	$500,000	$0	$500,000
125	27 - Extend new feeders from Boise and 402 to I25 towards future new substation	PW921	50,000	2,032,880	0	0	0	0	0	0	0	0	2,082,880	2,082,880	0%	100%	$0	$2,082,880	$0	$2,082,880
126	29 - Sub to Sub Tie - Install new duct bank and 750 AL on Madison E on 37th to CR11C, N to 57th St	PW921	0	0	0	0	0	61,570	962,760	0	0	0	0	1,024,330	0%	100%	$0	$0	$0	$1,024,330
127	30 - Sub to Sub Tie - Extend new feeders along CR 11 from 57th St. to CR 30	PW921	0	0	0	0	0	0	0	26,760	1,088,190	0	0	1,114,950	0%	100%	$0	$0	$0	$1,114,950
128	31 - Sub to Sub Tie - Extend new feeders along CR 11 from Boyd Lake Ave. to CR 30	PW921	0	0	0	0	0	0	0	0	2,092,670	0	0	2,092,670	0%	100%	$0	$0	$0	$2,092,670
129	35 - The Brands - Byrd Dr Fairgrounds along Crossroads	PW921	450,000	0	0	0	0	0	0	0	0	0	450,000	450,000	0%	100%	$0	$450,000	$0	$450,000
133	0	PW921	0	0	0	0	0	0	0	0	0	0	0	0	0%	100%	$0	$0	$0	$0
134	**POWER GENERATION PIF**		0	0	0	0	0	0	0	0	0	0	0	0	0%	0%	$0	$0	$0	$0
135	Service Center Expansion - PIF		0	0	0	0	0	0	4,428,690	0	0	0	0	4,428,690	0%	100%	$0	$0	$0	$4,428,690
136	**TOTAL PIF PROJECTS**		6,650,000	3,127,510	3,140,870	3,455,640	7,137,990	837,320	8,177,030	3,573,090	4,645,730	218,160	23,512,010	40,963,340			0	23,062,010	0	32,877,030
137																		0		0
138	SUBSTATION PROJECTS (RESTRICTED) =		2,700,000	938,250	2,869,170	0	6,960,820	591,050	667,510	3,345,590	1,255,600	0	13,468,240	19,327,990						
139	FEEDER PROJECTS (RESTRICTED) =		3,950,000	2,189,260	271,700	3,455,640	177,170	246,270	3,080,830	227,500	3,390,130	218,160	10,043,770	17,206,660						
140	POWER GENERATION PROJECTS (RESTRICTED) =		0	0	0	0	0	0	4,428,690	0	0	0	0	4,428,690						
141			0	0	0	0	0	0	0	0	0	0	0	0						
142	**GENERAL PLANT**																			
143	New Field Test Kit for Commercial Applications - Metering	PW930	55,000	0	0	0	0	0	0	0	0	0	55,000	55,000	100%	0%	$55,000	$0	$55,000	$0
144	Replace #5208 - 3/4 Ton, Extended Cab 4WD	PW930	52,000	0	0	0	0	0	0	0	0	0	52,000	52,000	100%	0%	$52,000	$0	$52,000	$0
145	Replace #5304 - 2020 Ford F450 with Service Body	PW930	115,000	0	0	0	0	0	0	0	0	0	115,000	115,000	100%	0%	$115,000	$0	$115,000	$0
149	Service Center Renovations	PW930	0	99,040	103,250	107,630	112,210	116,980	121,950	127,130	132,540	138,170	422,130	1,058,900	100%	0%	$422,130	$0	$1,058,900	$0
150	Service Center Expansion - Gen	PW930	0	0	0	0	0	0	4,428,690	0	0	0	0	4,428,690	100%	0%	$0	$0	$4,428,690	$0
151		PW930																		
152	0	PW930	0	0	0	0	0	0	0	0	0	0	0	0	100%	0%	$0	$0	$0	$0
153	**TOTAL GENERAL PLANT PROJECTS**		222,000	99,040	103,250	107,630	112,210	116,980	4,550,640	127,130	132,540	138,170	644,130	5,709,590			644,130	0	5,709,590	0
154																				
156	POWER GENERAL TOTAL =		10,902,250	11,463,190	12,606,930	10,916,417	12,703,226	10,460,270	18,491,378	14,754,060	14,753,320	15,445,745	58,592,013	132,496,786						
157	POWER PIF TOTAL =		6,650,000	3,127,510	3,140,870	3,455,640	7,137,990	837,320	8,177,030	3,573,090	4,645,730	218,160	23,512,010	40,963,340						
158			0	0	0	0	0	0	0	0	0	0								
159																				
160	TOTAL POWER CAPITAL EXPENDITURES =		17,552,250	14,590,700	15,747,800	14,372,057	19,841,216	11,297,590	26,668,408	18,327,150	19,399,050	15,663,905	82,104,023	173,460,126						

LOVELAND UTILITIES COMMISSION

AGENDA ITEM: 8
MEETING DATE: 6/19/2019
SUBMITTED BY: Joe Bernosky
STAFF TITLE: Director

ITEM TITLE:

Commission & Council Report

SUMMARY:

Discuss events that the Loveland Utility Commission Board members attended, special topics and any City Council items related to the Water and Power Department from the past month.

CITY COUNCIL REPORT:

City Council Regular Meeting – May 21

- Nothing of interest

City Council Study Session – May 28

- Nothing of interest

City Council Regular Meeting – June 4

- Resolution approving a contract for broadband engineering services during construction to Ditesco, LLC
- Resolution authorizing approval of a contract with Nokia for fiber to the premise active equipment, software, and hardware
- Resolution authorizing an intergovernmental agreement between the City of Loveland and the City of Fort Collins for broadband transport and access facilities

City Council Study Session – June 11

- Nothing of interest

City Council Regular Meeting – June 18

- Meeting cancelled

RECOMMENDATION:

Commission/Council report only.

LOVELAND UTILITIES COMMISSION

AGENDA ITEM: 9
MEETING DATE: 6/19/2019
SUBMITTED BY: Joe Bernosky
STAFF TITLE: Director

ITEM TITLE:
Director's Report

SUMMARY:
Discuss upcoming events, special topics and follow up items from previous meetings.

EVENTS:

Colorado Water Congress Summer Conference: A smaller version of the Annual Convention, the Summer Conference is held the third week of August in one of Colorado's picturesque mountain communities. It includes updates and dialogue on Colorado water legislation, workshops and panel discussions on pressing water issues, and fun break-out opportunities. This year the conference will be held August 20-22, 2019 at the Steamboat Grand in Steamboat, CO. Contact Courtney Whittet for registration information.

Water Literate Leaders of Northern Colorado: The Colorado Water Institute, in cooperation with Community Foundation of Northern Colorado has launched a non-partisan Water Literate Leaders of Northern Colorado program. Modeled after highly successful programs such as Leadership Northern Colorado, this program is for those who hold or aspire to political office, or other roles, including boards and commissions, which can impact regional water policy. Dates: September 4, October 2, November 20, December 18, January 15, February 19, March 11, April 8, May 13. Class fee of $150, kept low thanks to generous support from City of Greeley, City of Fort Collins, Town of Windsor, and City of Loveland. Maximum of 20 participants. For more information and to apply, deadline to apply is June 24th. Visit http://waterliterateleaders.colostate.edu/ for more information

Boards & Commissions Appreciation Event:

CUSTOMER RELATIONS:

Community Outreach: Loveland Water and Power will be attending the following upcoming events:

- Loveland Youth Gardeners: Garden and Art Tour – June 15, 2019
- Cherry Pie Festival – July 6, 2019

Facebook Insights (May 2019):

- Reach (unique users) – 1,093 people
- Engagement (unique users) – 115 people
- Impressions (total count) – 3,264 people

Media:

- The Complete Colorado-Page 2 – May 2, 2019: Loveland city-owned broadband still has many unanswered questions.
- Sierra Club – May 2, 2019: 100 Percent clean energy: The new normal
- Coloradoan – May 6, 2019: Fort Collins wants renewable electricity, survey says. But will residents pay more for it?
- Reporter Herald – May 8, 2019: Loveland approves changes to help Platte River Authority transition into renewable energy.
- Reporter Herald – May 13, 2019: Loveland council to advise city staff on new power rate structures.
- Reporter Herald – May 14, 2019: Loveland looks at mitigating disproportionate power cost for residents with home solar arrays
- Reporter Herald – May 16, 2019: With trips east, Loveland looks to other cities' expertise on building broadband network.
- Reporter Herald – May 17, 2019: Loveland fire department responds to lighting strike report at apartment complex.
- The Complete Colorado-Page 2 – May 23, 2019: 5G Wireless technology could cause early end for municipal broadband
- Reporter Herald – May 30, 2019: Loveland launches broadband push
- BizWest – May 30, 2019: Loveland's broadband utility to be called Pulse
- Times Call – May 31, 2019: Platte River Power Authority reaches new energy wholesale deals with Longmont, Loveland, Fort Collins, Estes Park
- Reporter Herald – June 3, 2019: Loveland City Council to consider broadband-boosting measures
- Reporter Herald – June 4, 2019:Loveland Council approves agreements, contracts for municipal broadband
- Longmont Observer – June 8, 2019: Platte River owner communities extend contract
- Coloradoan – June 11, 2019: Study: Local renewables, batteries could cover 74% of Fort Collins' residential electricity

ATTACHMENTS:

- Attachment A: Roger Weidelman comments on Self-Generation rates

Attachment A

Good Evening, Mayor, Councilors, and City Staff.

My name is Roger Weidelman, a thirty-plus year resident of Loveland's Ward 2.

The topic of "home solar rates' was discussed at last week's Council study session.

One issue that arose was the "per kilowatt" charge that each home solar system should be assessed. City staff and Loveland Utility Commission recommended an option with a charge of $0.96 per kW per month.

This charge, if I understood correctly, would cover the fixed costs of the miscellaneous additional equipment, City utility staff tasks, etc., required to integrate the home solar system to the City electrical grid.

There are 120 home solar systems currently operating within the Loveland electric utility system. They average about 5 kW per system.

City staff estimated that not charging the "per kW" charge would result in an annual shortfall of $6300. This may appear to be insignificant in the large scheme of things.

$6300 divided by 120 results in an average "subsidy" per home solar owner of $52.50 per year or $4.38 per month.

One or more Councilors thought that this shortage could readily be absorbed by the rest of the utility residential customers and/or offset by efficiencies somewhere. A question arises; "Why should the non-solar customers or anyone within the City utility service area subsidize any solar owner?"

One could make a minor adjustment to the staff recommended "per kW" charge to cover the shortfall. $0.88 per kW times 5 kW times 120 systems times 12 months equals **$6336**. This equates to a monthly charge of $4.40 (5 times $0.88) per average home solar system, hardly, a punitive amount.

Each home solar owner adds an accounting task to the City utility staff over and above the non-solar customer. They should not be treated the same. There are additional fixed costs associated with any solar owner.

The issue is not how little the subsidy, if any, should be, but, and, **I repeat**, "Why should the non-solar customers or anyone within the city utility service area subsidize any solar owner?"

The home solar owners have probably taken advantage of any state or federal tax credit programs that are available. In addition, I have to assume that most, if not all, of these solar owners are members of the median and higher income segments of the population.

The home solar owners **shouldn't** be subsidized. They should bear **all** the costs of being connected to the City electrical grid, which also include access to a dependable source of backup electricity when necessary. They are a distinct, easily identifiable class of customer.

Unfortunately, the proposed waiving of the "per kW" charge appears to be pandering to a very small special interest group.

I question whether it's the City's role to offer incentives to anyone for solar energy, wind energy or electric autos. **What is the overall economic gain to the community?**

Thank you for your attention!