

CENTERVILLE CITY COUNCIL AGENDA

NOTICE IS HEREBY GIVEN THAT THE CENTERVILLE CITY COUNCIL WILL HOLD A SPECIAL WORK SESSION AT 5:00 P.M. ON TUESDAY, NOVEMBER 25, 2014 AT THE CENTERVILLE CITY COMMUNITY CENTER AND CITY HALL COUNCIL CHAMBERS, 250 NORTH MAIN STREET, CENTERVILLE, UTAH. THE AGENDA IS SHOWN BELOW.

Tentative - The times shown below are tentative and are subject to change during the meeting.
Time:

5:00 **A. ROLL CALL**

B. BUSINESS

1. Work Session re: Drainage Master Plan Update and Drainage Utility Fund
 Rate Study

C. ADJOURNMENT

Marsha L. Morrow, MMC
Centerville City Recorder

CENTERVILLE WORK SESSION AGENDA

NOTICE IS HEREBY GIVEN THAT THE CENTERVILLE CITY COUNCIL WILL HOLD ITS WORK SESSION MEETING AT 5:00 PM ON November 25, 2014 AT THE CENTERVILLE CITY COMMUNITY CENTER AND CITY HALL COUNCIL CHAMBERS, 250 NORTH MAIN STREET, CENTERVILLE, UTAH. THE AGENDA IS SHOWN BELOW.

Tentative - The times shown below are tentative and are subject to change during the meeting.
Time:

5:00 **A. ROLL CALL**

B. NEW BUSINESS

5:00 1. Work Session re: Drainage Master Plan Update and Drainage Utililty Fund Rate Study

C. ADJOURNMENT

Marsha L. Morrow, MMC
Centerville City Recorder

**CENTERVILLE
WORK SESSION
Staff Backup Report
11/25/2014**

Item No. 1.

Short Title: Work Session re: Drainage Master Plan Update and Drainage Utility Fund Rate Study

Initiated By:

Scheduled Time: 5:00

SUBJECT

RECOMMENDATION

BACKGROUND

Staff have attached several documents for the work session:

- **IFFP Project List** -- This is the list of storm drain projects included in the Storm Drain Impact Fee Facilities Plan earlier this year, which was used as a basis for an update of the Storm Drain Impact Fee. Handwritten notes in the left margin cross-reference to the Updated Project List, mentioned below.
- **Updated Project List** -- This extensive list included all storm drain and subdrain projects anticipated over the next 20 and 30 years, respectively. The storm drain projects have been sorted into 5-year periods, 0-5 years, 6-10 years, etc. The number of storm drain projects for the first 10 years is now longer than the 10-year list included in the IFFP mentioned above. In the left margin of the Updated Project List are numbers cross-referencing to the projects included in the IFFP Project List. This clearly identifies the change in priority and which projects have been added. The reasons for the additional projects and the changes in priority will be explained at the work session.
- **Project Maps** -- These were prepared by Mike Smith, the City's GIS specialist. These illustrate the projects in 5-year intervals.

ATTACHMENTS:

Description

- ☐ IFFP Project List
- ☐ Updated Project List
- ☐ Project Maps

SECTION 5: CAPITAL FACILITY ANALYSIS

The estimated costs attributed to new growth were analyzed based on existing development versus future development patterns. From this analysis, a portion of future development costs were attributed to new growth and included in this impact fee analysis as shown in Table 5.1. Capital projects related to curing existing deficiencies were not included in the calculation of the impact fees. The costs of projects related to curing existing deficiencies cannot be funded through impact fees.

Total future project costs equate to \$3,684,000, as shown in the table below. Approximately \$797,210 is related to new growth.

TABLE 5.1: ILLUSTRATION OF CAPITAL IMPROVEMENTS SCHEDULED TO BE COMPLETED IN THE NEXT 10 YEARS

#	DESCRIPTION	TOTAL	CITY	COUNTY	UDOT	DEVELOPER	GROWTH
1	Legacy Trail and Sheep Rd at 1000 N. - new 72 x 44" culvert *	67,000	33,500	33,500	-	-	-
2	Lund Lane - new 36 culvert at UTA / UPRR *	225,000	75,000	-	-	150,000	-
3	400 East - 850 South to 700 South	82,000	82,000	-	-	-	-
4	Nola Drive - 1200 North to 1350 North	126,000	126,000	-	-	-	-
5	Main Street - 100 North to 50 South - Replace old 15 to 18" CMP *	152,000	38,000	-	114,000	-	-
6	Main Street - Pheasant Drive to Chase Lane including crossing at Pheasant Drive - Replace old CMP	253,000	63,250	-	189,750	-	-
7	Main Street - 1075 North (J.P. Stewart south property line) - replace 24 CMP w/ 36" RCP *	69,000	17,250	-	51,750	-	-
8	Main Street crossing at Rigby property - replace 24 CMP w/ 24" RCP also includes new 18" system running east *	224,000	53,760	-	53,760	-	116,480
9	Main Street crossing at 1700 North (Jennings Lane) - replace 24 CMP w/ 24" RCP also includes new 18" system running east *	185,000	44,400	-	44,400	-	96,200
10	Main Street - 725 South (Centerville Jr. High south property line) - replace 24 CMP *	49,000	12,250	-	36,750	-	-
11	Frontage Rd - 100 South (Kohl's south property line) - replace 24 CMP w/ 36" RCP *	51,000	43,860	-	-	-	7,140
12	Frontage Rd - 400 North (Pamish Lane) - replace 36 CMP *	175,000	175,000	-	-	-	-
13	Frontage Rd - 625 North (McDonald's North PL) - replace 24 CMP *	40,000	40,000	-	-	-	-
14	Frontage Rd - 750 North (Creekview) - replace 24 CMP *	41,000	41,000	-	-	-	-
15	Frontage Rd - 1000 North (Barnard and Pamish Overflow) - new 48 culvert *	100,000	41,500	41,500	-	-	17,000
16	Frontage Rd - 1300 N. (Community Park) - replace 42 CMP *	70,000	70,000	-	-	-	-
17	Frontage Rd - 1375 N. (North PL Community Park) replace 2 - 24 possibly with one new 36" culvert at new grade *	60,000	60,000	-	-	-	-
18	Frontage Rd - 1875 N. (Villa de France) - replace 24 CMP - new 36" culvert *	65,000	65,000	-	-	-	-
19	Frontage Rd - 2050 N. (Lexington) - replace 24 CMP *	45,000	21,600	-	-	-	23,400
20	Frontage Rd - 2150 N. (Millet) - replace 24 CMP w/ 24" RCP *	49,000	23,520	-	-	-	25,480
21	Frontage Rd - 2175 N. - replace 24 CMP w/ 24" RCP *	51,000	24,480	-	-	-	26,520
22	Frontage Rd - Air Products & Tri-City - replace 2 - 24 CMP w/ 2 - 24" RCP *	75,000	36,000	-	-	-	39,000
23	UDOT Maintenance Shed - Barnard Creek - 1250 West to Legacy Trail - replace 24 CMP w/ 36" RCP *	160,000	80,000	40,000	40,000	-	-
24	Home Depot Storm drain, drainage ditch and Detention Basin cleaning	250,000	250,000	-	-	-	-
25	I - 15 - Lund Lane - replace 24 CMP w/ 36" RCP *	367,000	130,285	-	130,285	-	106,430
26	I - 15 / UTA / UPRR - Air Products & Tri-City - replace 2 - 24 CMP w/ 2 - 24" RCP *	653,000	156,720	-	156,720	-	339,560
Totals		\$3,684,000	\$1,804,375	\$115,000	\$817,415	\$150,000	\$797,210

* The City portion of this project is considered growth related. However, the existing impact fee fund balance will be used to fund this project. Thus, it is not included as a growth-related project for the purposes of calculating the future impact fee. Upon funding of this project, it is anticipated that there will be no outstanding impact fee fund balance remaining for future growth-related projects.

DRAINAGE MASTER PLAN - UPDATED STORM DRAIN PROJECT LIST 2014

KEVIN L. CAMPBELL, P.E.
REVISED 11-12-14

Project #
in earlier
IFFP list

PROJ. #	YR	DESCRIPTION	FUNDING	TOTAL ESTIMATE	CITY	COUNTY	UDOT	DEVELOPER	GROWTH
PRIORITY "A" - PROJECTS SCHEDULED TO BE COMPLETED 0 - 5 YEARS									
1	2014	Legacy Trail and Sheep Rd at 1000 N. - new 72" x 44" culvert	O&M	\$67,000	\$33,500 (funded)	\$33,500	\$0	\$0	\$0
2	2014	Lund Lane - new 36" culvert at UTA / UPRR	O&M / DEV.	\$225,000	\$75,000 (funded)	\$0	\$0	\$150,000	\$0
	2015	Porter Lane - 400 East to 300 East	O&M	\$80,000	\$80,000	\$0	\$0	\$0	\$0
14	2015	Frontage Rd - 750 North (Creekview) - replace 24" CMP	O&M	\$41,000	\$41,000	\$0	\$0	\$0	\$0
16	2015	Frontage Rd - 1300 N. (Community Park) - replace 42" CMP	O&M	\$70,000	\$70,000	\$0	\$0	\$0	\$0
17	2015	Frontage Rd - 1375 N. (North PL Community Park) replace 2 - 24" possibly with one new 36" culvert at new grade	O&M	\$60,000	\$60,000	\$0	\$0	\$0	\$0
18	2015	Frontage Rd - 1875 N. (Villa de France) - replace 24" CMP - new 36" culvert	O&M	\$65,000	\$65,000	\$0	\$0	\$0	\$0
19	2015	Frontage Rd - 2050 N. (Lexington) - replace 24" CMP	O&M / I.F.	\$45,000	\$21,600	\$0	\$0	\$0	\$23,400
20	2015	Frontage Rd - 2150 N. (Millet) - replace 24" CMP w/ 24" RCP	O&M / I.F.	\$49,000	\$23,520	\$0	\$0	\$0	\$25,480
21	2015	Frontage Rd. - 2175 N. - replace 24" CMP w/ 24" RCP	O&M / I.F.	\$51,000	\$24,480	\$0	\$0	\$0	\$26,520
23	2015	UDOT Maintenance Shed - Barnard Creek - 1250 West to Legacy Trail - replace 24" CMP w/ 36" RCP	O&M	\$160,000	\$80,000 (RDA funded)	\$80,000	\$0	\$0	\$0
25	2015	I - 15 - Lund Lane - replace 24" CMP w/ 36" RCP	O&M / I.F.	\$367,000	\$130,285	\$0	\$130,285	\$0	\$106,430

PROJ. #	YR	DESCRIPTION	FUNDING	TOTAL ESTIMATE	CITY	COUNTY	UDOT	DEVELOPER	GROWTH
13	2016	200 East to Deerfield Drive - slip-line existing culvert	O&M	\$45,000	\$45,000	\$0	\$0	\$0	\$0
14	2016	500 East to Nola Drive - slip-line existing culvert	O&M	\$99,000	\$99,000	\$0	\$0	\$0	\$0
15	2016	625 North - 150 West - slip-line existing culvert	O&M	\$49,000	\$49,000	\$0	\$0	\$0	\$0
16	2016	Island View Drive to Island View Park - slip-line existing culvert	O&M	\$74,000	\$74,000	\$0	\$0	\$0	\$0
17	2016 - 2019	Deuel Creek - 4' x 8' Box Culvert - 400 S. - 400 W. to 800 W.	O&M	\$952,000	\$238,000	\$714,000	\$0	\$0	\$0
18	2017	Main Street - 100 North to 50 South - Replace old 15" to 18" CMP	O&M	\$152,000	\$38,000	\$0	\$114,000	\$0	\$0
19	2017	Main Street - Pheasant Drive to Chase Lane including crossing at Pheasant Drive - Replace old CMP	O&M	\$253,000	\$63,250	\$0	\$189,750	\$0	\$0
20	2017	Main Street - 1075 North (J.P. Stewart south property line) - replace 24" CMP w/ 36" RCP	O&M	\$69,000	\$17,250	\$0	\$51,750	\$0	\$0
21	2017	Main Street crossing at Rigby property - replace 24" CMP w/ 24" RCP also includes new 18" system running east	O&M / I.F.	\$224,000	\$53,760	\$0	\$53,760	\$0	\$116,480
22	2017	Main Street crossing at 1700 North (Jennings Lane) - replace 24" CMP w/ 24" RCP also includes new 18" system running east	O&M / I.F.	\$185,000	\$44,400	\$0	\$44,400	\$0	\$96,200
23	2017	Main Street - 725 South (Centerville Jr.High south property line) - replace 24" CMP	O&M	\$49,000	\$12,250	\$0	\$36,750	\$0	\$0
24	2018	Frontage Rd. - Air Products & Tri-City - replace 2 - 24" CMP w/ 2 - 24" RCP	O&M / I.F.	\$75,000	\$36,000	\$0	\$0	\$0	\$39,000
25	2018	Frontage Rd - 100 South (Kohl's south property line) - replace 24" CMP w/ 36" RCP	O&M / I.F.	\$51,000	\$43,860	\$0	\$0	\$0	\$7,140
26	2018	Frontage Rd - 400 North (Parrish Lane) - replace 36" CMP	O&M	\$175,000	\$175,000	\$0	\$0	\$0	\$0

13

PROJ. #	YR	DESCRIPTION	FUNDING	TOTAL ESTIMATE	CITY	COUNTY	UDOT	DEVELOPER	GROWTH
27	2018	Frontage Rd - 625 North (McDonald's North PL) - replace 24" CMP	O&M	\$40,000	\$40,000	\$0	\$0	\$0	\$0
		TOTAL PRIORITY "A"		\$3,772,000					
		PRIORITY "A" - CITY TOTAL			\$1,733,155				
		PRIORITY "A" - CITY TOTAL (LESS PROJECT #s 1, 2, & 11)			\$1,544,655				
		PRIORITY "A" - COUNTY TOTAL				\$827,500			
		PRIORITY "A" - UDOT TOTAL					\$620,695		
		PRIORITY "A" - DEVELOPER TOTAL						\$150,000	
		PRIORITY "A" - GROWTH TOTAL							\$440,650
PRIORITY "B" - PROJECTS SCHEDULED TO BE COMPLETED 6 - 10 YEARS									
28		400 East - 850 South to 700 South	O&M	\$82,000	\$82,000	\$0	\$0	\$0	\$0
29		Nola Drive - 1200 North to 1350 North	O&M	\$126,000	\$126,000	\$0	\$0	\$0	\$0
30		200 South - 600 East to 500 East - replace CMP	O&M	\$56,000	\$56,000	\$0	\$0	\$0	\$0
31		650 North - UPRR to 1250 W. - replace old 30" CMP with new 42" RCP	O&M	\$450,000	\$450,000	\$0	\$0	\$0	\$0
32		Cottonwood Drive - 50 East to Deerfield Drive	O&M	\$25,000	\$25,000	\$0	\$0	\$0	\$0
33		Peachtree Drive - Main Street to 50 East	O&M	\$37,000	\$37,000	\$0	\$0	\$0	\$0
34		Deerfield - 1200 North to 1250 North	O&M	\$85,000	\$85,000	\$0	\$0	\$0	\$0
35		Centerville Junior High (south property line) - 300 East to Main Street or look at combining with Riviera SD system (1,300 LF)	O&M	\$275,000	\$275,000	\$0	\$0	\$0	\$0
36		1000 North (Barnard and Parrish Overflow) - UPRR to Legacy Hwy - channel improvements	O&M / DEV.	\$88,000	\$22,000	\$44,000	\$0	\$22,000	\$0

3
4

15

24

26

PROJ. #	YR	DESCRIPTION	FUNDING	TOTAL ESTIMATE	CITY	COUNTY	UDOT	DEVELOPER	GROWTH
37		Frontage Rd - 1000 North (Barnard and Parrish Overflow) - new 48" culvert	O&M / I.F.	\$100,000	\$41,500	\$41,500	\$0	\$0	\$17,000
38		Home Depot Storm drain, drainage ditch and Detention Basin cleaning	O&M	\$250,000	\$250,000	\$0	\$0	\$0	\$0
39		Island View Park - replace approx. 200 LF of 8" PVC at new grade to 700 East storm drain crossing	O&M	\$56,000	\$56,000	\$0	\$0	\$0	\$0
40		I - 15 / UTA / UPRR - Air Products & Tri-City - replace 2 - 24" CMP w/ 2 - 24" RCP	O&M / I.F.	\$653,000	\$156,720	\$0	\$156,720	\$0	\$339,560
		TOTAL - PRIORITY "B"		\$2,283,000					
		PRIORITY "B" - CITY TOTAL			\$1,662,220				
		PRIORITY "B" - COUNTY TOTAL				\$85,500			
		PRIORITY "B" - UDOT TOTAL					\$156,720		
		PRIORITY "B" - DEVELOPER						\$22,000	
		PRIORITY "B" - GROWTH							\$356,560
PRIORITY "C" - PROJECTS SCHEDULED TO BE COMPLETED 11 - 15 YEARS									
41		75 North - 1250 West storm drain crossing	O&M / I.F.	\$26,000	\$10,400	\$0	\$0	\$0	\$15,600
42		Parrish Creek - 950 West to 1250 West - channel improvements	O&M / I.F.	\$116,000	\$46,400	\$46,400	\$0	\$0	\$23,200
43		I - 15 - 100 South (Kohl's south property line) - replace 24" CMP - new 36"	O&M / I.F.	\$350,000	\$150,500	\$0	\$150,500	\$0	\$49,000
44		I - 15 - 400 North (Parrish Lane) - replace 24" CMP along east side of interstate / beneath northbound exit ramp	O&M	\$216,000	\$0	\$0	\$216,000	\$0	\$0
45		I - 15 - 400 North (Parrish Lane) - replace 36" CMP	O&M	\$768,000	\$0	\$0	\$768,000	\$0	\$0
46		I - 15 - 625 North (McDonald's North PL) - replace 30" CMP	O&M	\$395,000	\$0	\$0	\$395,000	\$0	\$0

PROJ #	YR	DESCRIPTION	FUNDING	TOTAL ESTIMATE	CITY	COUNTY	UDOT	DEVELOPER	GROWTH
PRIORITY "D" - PROJECTS SCHEDULED TO BE COMPLETED 16 - 20 YEARS									
58		Lund Lane - 200 West to 800 West - new 36" RCP	DEV	\$149,000	\$0	\$0	\$0	\$149,000	\$0
59		Rolling Hills Drive Improvements / Silt Basin including property acquisition if needed	DEV	\$175,000	\$0	\$0	\$0	\$175,000	\$0
60		Sheep Road - Parrish Lane - 2 new 36" culverts	O&M / I.F.	\$90,000	\$54,000	\$0	\$0	\$0	\$36,000
61		DRG / approx. 1350 N. - new 36" culvert	I.F.	\$133,000	\$0	\$0	\$0	\$0	\$133,000
62		DRG / Drainage Canal - new 42" culvert	I.F.	\$151,000	\$0	\$0	\$0	\$0	\$151,000
63		DRG / Rick's Creek - new 71" x 47" elliptical culvert	O&M / I.F.	\$225,000	\$56,250	\$56,250	\$0	\$0	\$112,500
64		Sheep Road - Rick's Creek - new 71" x 47" elliptical culvert	O&M / I.F.	\$114,000	\$28,500	\$28,500	\$0	\$0	\$57,000
65		DRG / 2075 N. - new 36" culvert	O&M / I.F.	\$133,000	\$35,910	\$0	\$0	\$0	\$97,090
66		Sheep Road / 2075 N. new 36" culvert	I.F.	\$46,000	\$0	\$0	\$0	\$0	\$46,000
67		Future Extension of 1250 West - Rick's Creek 12' x 5' Box Culvert	I.F. / DEV	\$179,000	\$0	\$0	\$0	\$89,500	\$89,500
68		Future Extension of 1250 West - New 36" RCP at 1875 North (Villa de France system)	I.F.	\$49,000	\$0	\$0	\$0	\$0	\$49,000
69		Future Extension of 1250 West - New 36" RCP at 2050 North (Lexington system)	I.F.	\$49,000	\$0	\$0	\$0	\$0	\$49,000
70		Future Extension of 1250 West - New 42" RCP at diagonal canal / ditch	I.F.	\$55,000	\$0	\$0	\$0	\$0	\$55,000
71		Future Extension of 1250 West - New 42" RCP at 1300 North (Community park system)	I.F.	\$55,000	\$0	\$0	\$0	\$0	\$55,000
72		Future Briarwood Subdivision Development (850 North 400 East)	I.F.	\$250,000	\$177,500	\$0	\$0	\$0	\$72,500
73		Casa Loma Storm Drain	O&M	\$253,000	\$253,000	\$0	\$0	\$0	\$0

PROJ. #	YR	DESCRIPTION	FUNDING	TOTAL ESTIMATE	CITY	COUNTY	UDOT	DEVELOPER	GROWTH
74		Willow Valley Drive to Frontage Road swale - pipe 3 - 15" systems	O&M	\$100,000	\$100,000	\$0	\$0	\$0	\$0
75		Cedar Springs north property line storm drain	O&M	\$116,000	\$116,000	\$0	\$0	\$0	\$0
		TOTAL - PRIORITY "D"		\$2,322,000					
		PRIORITY "D" - CITY TOTAL			\$821,160				
		PRIORITY "D" - COUNTY TOTAL				\$84,750			
		PRIORITY "D" - DEVELOPER						\$413,500	
		PRIORITY "D" - GROWTH							\$1,002,590

Note:

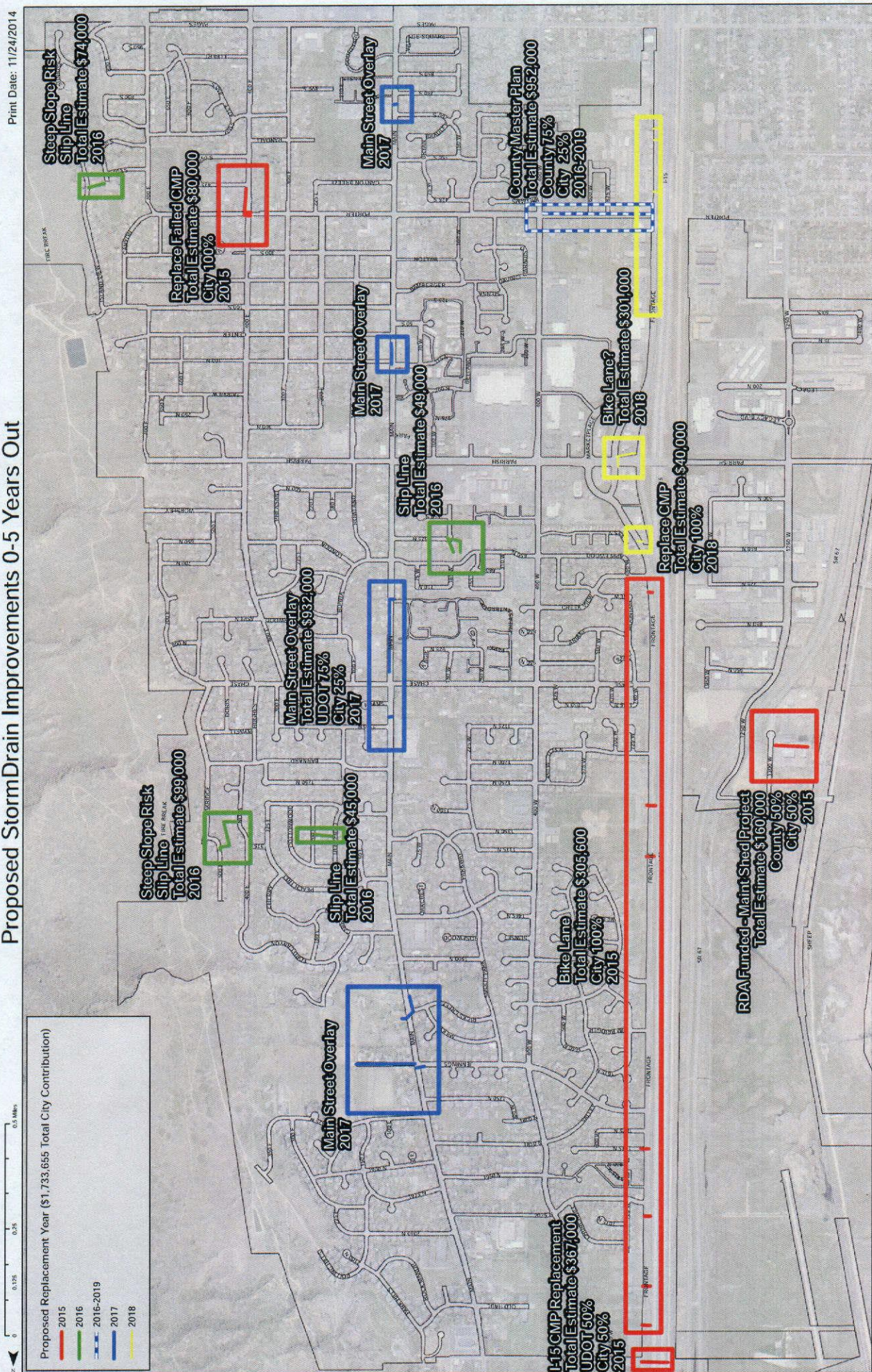
I.F. indicates that the project is to be funded using Impact Fees. O&M means operation and maintenance projects generally funded with storm drain rates. These projects are to replace old deteriorated systems. DEV stands for proposed development project to be funded and built before approvals are granted. DEV projects are tentative since their primary purpose is to support growth.

Print Date: 11/24/2014



Proposed Storm Drain Improvements 0-5 Years Out

Print Date: 11/24/2014

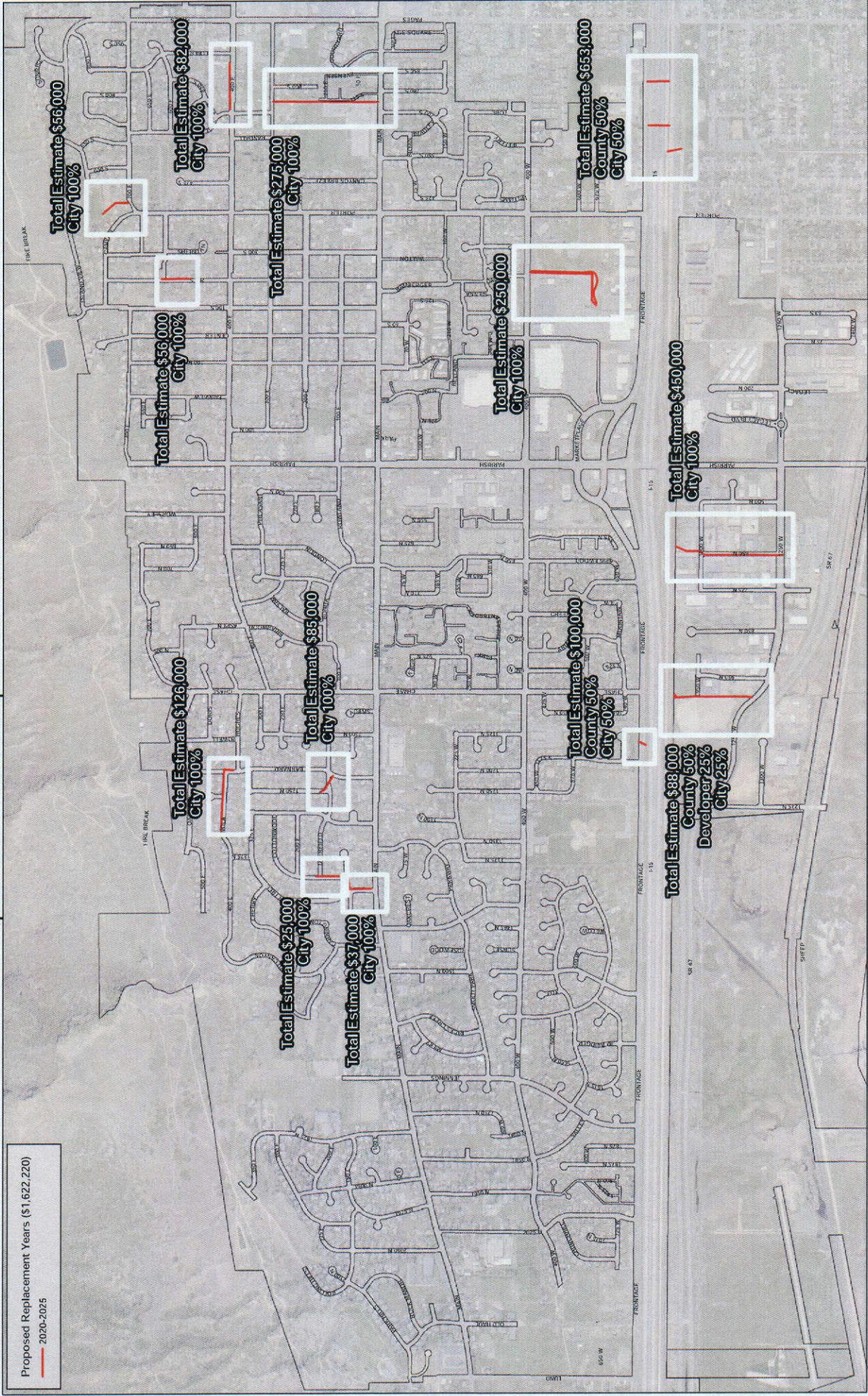


Proposed Storm Drain Improvements 6-10 Years Out

Print Date: 11/24/2014



Proposed Replacement Years (\$1,622,220)
 2020-2025

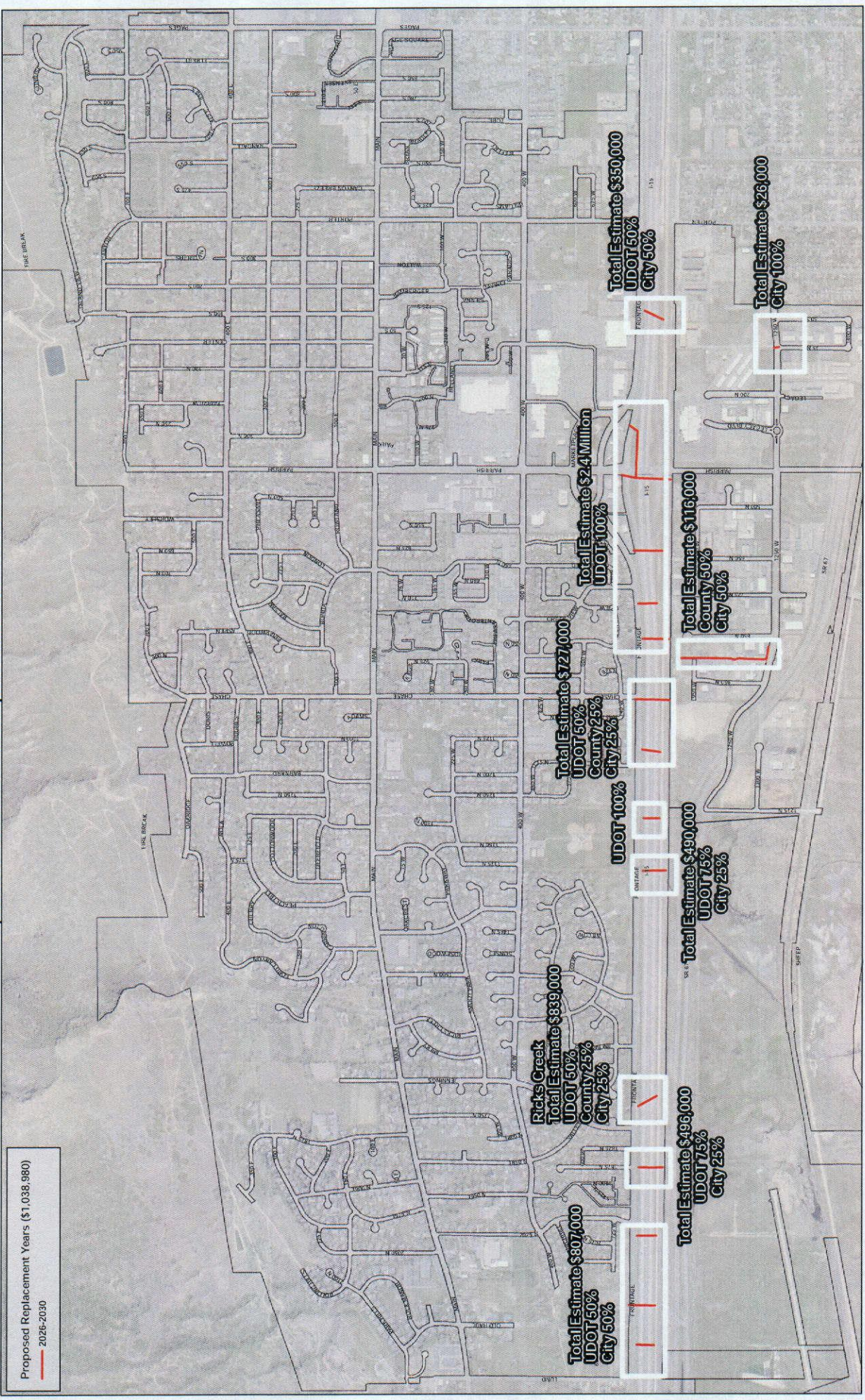


Proposed Storm Drain Improvements 11-15 Years Out

Print Date: 11/24/2014

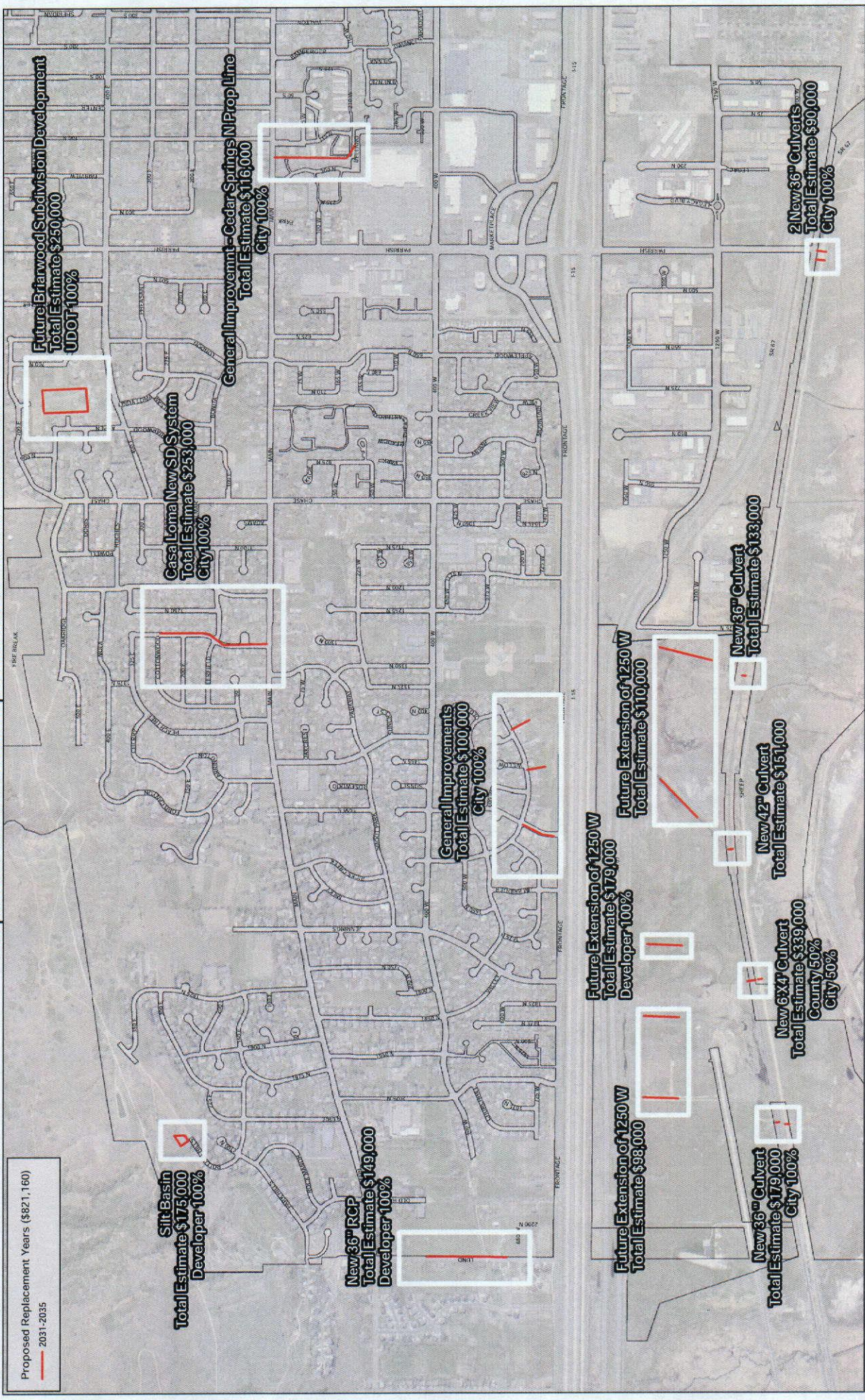
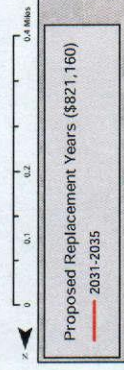


Proposed Replacement Years (\$1,038,980)
 2026-2030



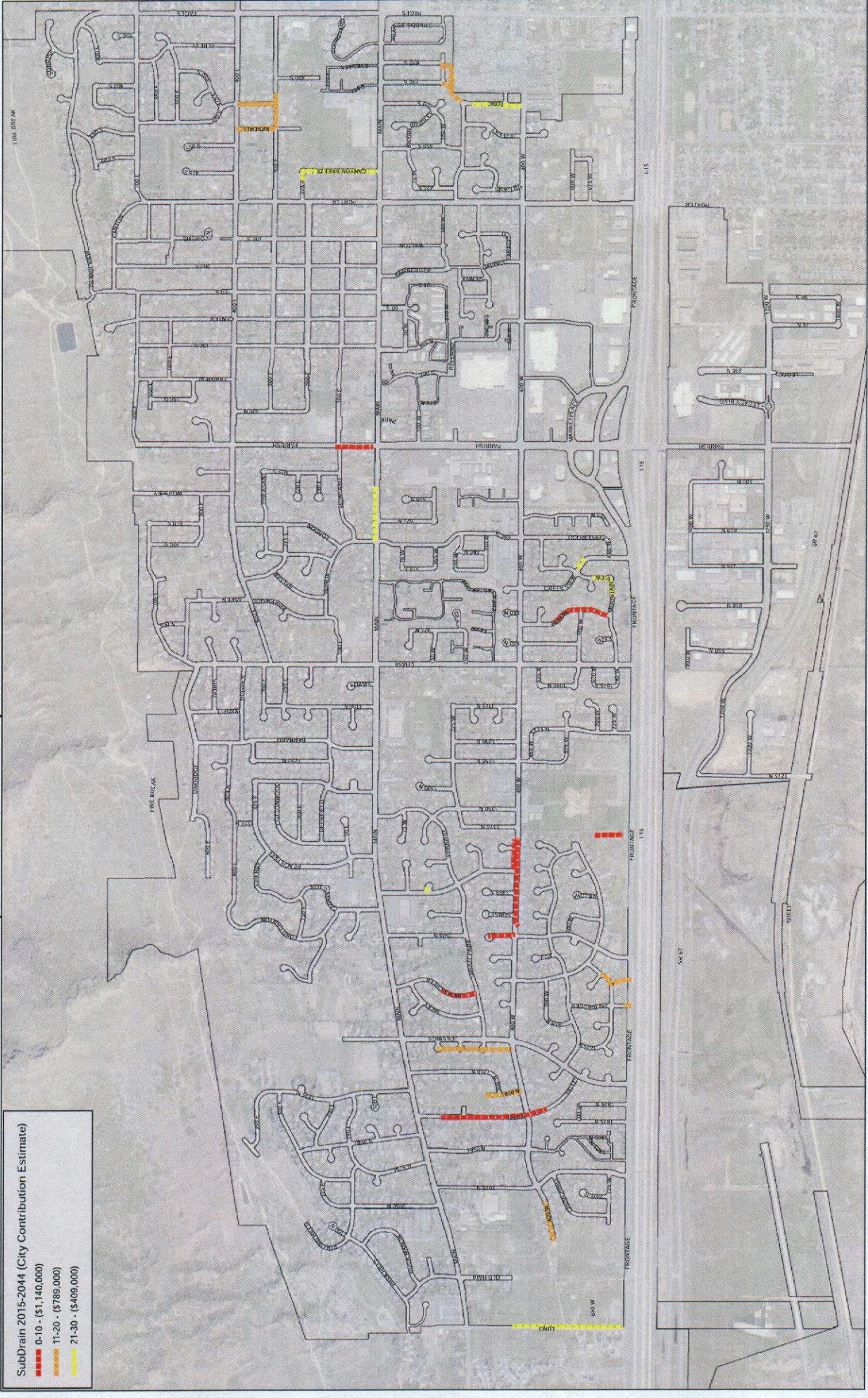
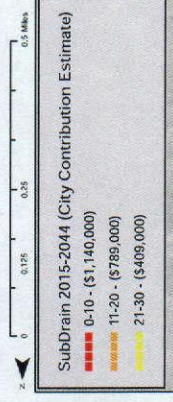
Proposed Storm Drain Improvements 16-20 Years Out

Print Date: 11/24/2014



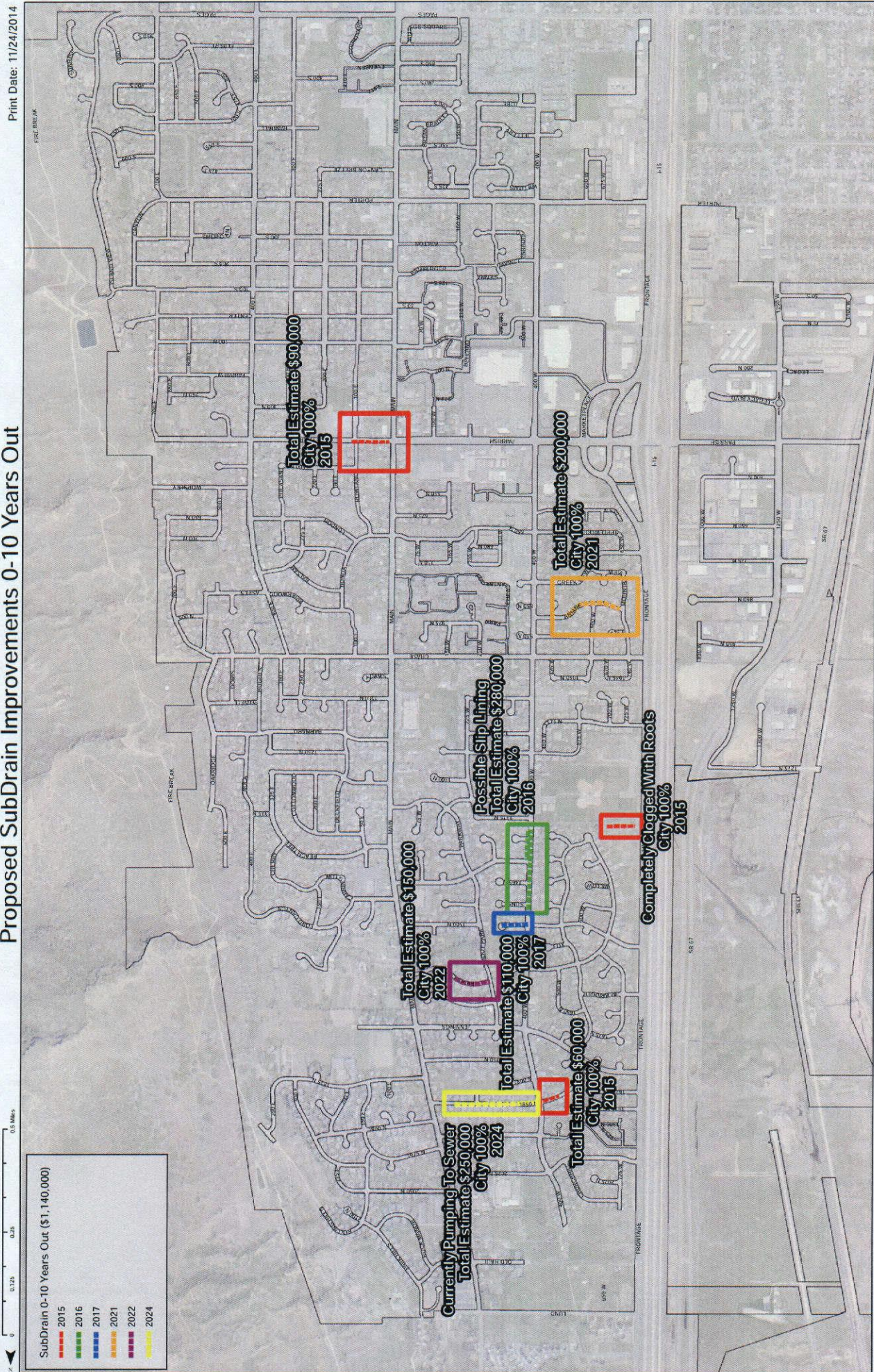
Proposed SubDrain Improvements 0-30 Years Out

Print Date: 11/24/2014



Proposed SubDrain Improvements 0-10 Years Out

Print Date: 11/24/2014



SubDrain 0-10 Years Out (\$1,140,000)

- 2015
- 2016
- 2017
- 2021
- 2022
- 2024



Proposed SubDrain Improvements 11-20 Years Out

Print Date: 11/24/2014



SubDrain 2025-2034 (\$789,000)



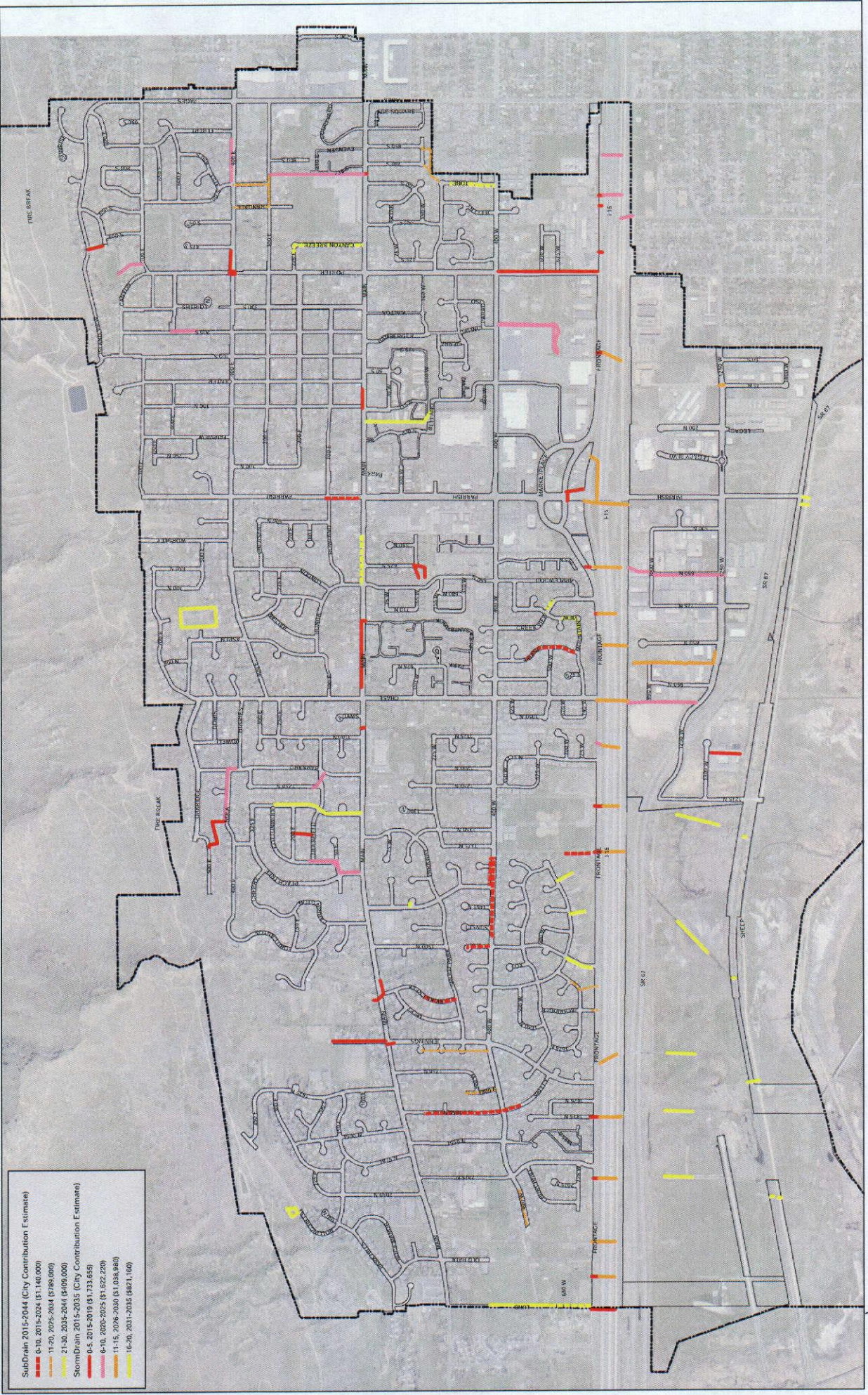
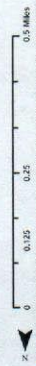
Proposed SubDrain Improvements 21-30 Years Out

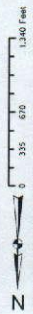
Print Date: 11/24/2014



Proposed StormDrain and SubDrain Improvements 0-30 Years Out

Print Date: 11/24/2014





Proposed Culinary Lines, StormDrain, and SubDrain Improvements 0-30 Years Out

Print Date: 11/24/2014

0 0.125 0.25 0.5 Miles

- WaterLines Needing Replacement**
- AC 3.8 miles
 - CAST 8 miles
 - SubDrain 2015-2044 (City Contribution Estimate)
 - StormDrain 2015-2035 (City Contribution Estimate)
 - 0-10, 2015-2024 (\$1,140,000)
 - 11-20, 2025-2034 (\$780,000)
 - 21-30, 2035-2044 (\$409,000)
 - 0-5, 2015-2019 (\$1,133,635)
 - 6-10, 2020-2025 (\$1,622,220)
 - 11-15, 2026-2030 (\$1,038,980)
 - 16-20, 2031-2035 (\$821,160)

