2013 STORM DRAIN IMPACT FEE FACILITY PLAN

DRAFT FOR PUBLIC REVIEW

Prepared for:

Herriman City

Prepared by:

Bowen, Collins & Associates
154 East 14000 South
Draper, Utah 84020

June 2013

Project No. 217-11-06

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Prepared for:

Herriman City

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Bowen Collins
& Associates, Inc.
CONSULTING ENGINEERS

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IMPACT FEE FACILITIES PLAN

Recommended storm drain system improvements are identified in Herriman's 2012 Storm Drain Master Plan report (SDMP report). Information from that master plan and the associated analysis were used to identify recommended improvements that qualify to be used in the calculation of impact fees as outlined the Utah Code Ann. § 11-36a-101 *et seq.* The purpose of this Impact Fee Facilities Plan (IFFP) is to define future projects that are eligible for impact fees, develop cost allocations for those projects related to impact fees, and estimate the value of available capacity in the existing storm drain system facilities that are eligible for reimbursement through impact fees.

EXISTING LEVEL OF SERVICE

The SDMP report defines the existing level of service for Herriman's Storm Drain System. The level of service is also presented below.

Storm Drain Pipelines

Storm drain pipelines are not allowed to surcharge to within two feet from the ground surface during the 10 percent annual chance (10-year) design storm event. Storm drain pipelines are also not to be smaller than 18 inches in diameter. It is important to note that roadways become the major storm water conveyance facility during storms that are larger than the 10-year design event.

Open Channels

Open channels are required to have at least two feet of free board during the 1 percent annual chance (100-year) design storm event. Open channels should also have protective lining. If velocities are less than 4 ft per second (ft/s), the channel may be grass lined. However, if the peak velocity in a channel is over 4 ft/s, then grass will not be sufficient to protect the channel from erosion damage and armoring will be required.

Detention Basins

Detention facilities are required to have capacity for the 100-year storm, with at least one foot of freeboard, and have an emergency overflow that directs water away from private property.

It is important to note that not all of the existing facilities in the storm drain system meet the existing level of service. Those deficient storm drain facilities will be remedied over the next 6 years, and will be paid for independent of the impact fees.

PROPOSED LEVEL OF SERVICE

The Utah Code Ann. § 11-36a-302 (1)(a)(i)(ii) defines the need for a proposed level of service. The proposed level of service the storm drain system is the same as the existing level of service.

TYPES OF RECOMMENDED IMPROVEMENTS

The recommended improvements identified in the SDMP report included only major storm drain facilities (system improvements). Local storm drain facilities (project improvements), typically associated with development projects, are not included in the SDMP report nor are they eligible for impact fees. The SDMP report defines system improvements and project improvements for Herriman's Storm Drain System. The definition of system improvements and project improvements is presented below.

- **Major Conveyance Facilities** – Major storm drain conveyance facilities (system improvements) include pipelines or major channels that typically service multiple developments. Local facilities (project improvements) include smaller storm drain conveyance facilities that typically only serve one development and are used to convey storm water runoff from the 100-year design storm to the major conveyance facilities.
- **Regional Detention Facilities –** Development is required to provide local detention facilities (project improvements) to attenuate peak storm water discharges to the limits stated in the SDMP report. A major regional detention facility (system improvement) will attenuate peak runoff from the 100-year design storm to levels that can be safely conveyed through existing downstream facilities.

SERVICE AREAS

Herriman has been divided into three storm drain service areas: West Herriman, South Herriman, and the Towne Center. Figure 1 shows the boundaries for each service area. A brief description of each is provided below.

- **West Herriman** – This service area contains most of the existing development in Herriman City and thus it contains most of the existing storm drain infrastructure. The West Herriman service area has a storm drain detention requirement of 0.2 cfs/ac and is separate from the other service areas.

- **South Herriman** – This area is currently mostly undeveloped and has a separate storm drain detention requirement of 0.02 to 0.05 cfs/ac (see Chapter 6 of the 2012 Storm Drain Master Plan).

- **Towne Center –** The Towne Center is a 373 acre development on the central east side of Herriman. The Towne Center has a separate master plan and has a separate storm drain system.

DEMAND ANALYSIS

The SDMP report identifies the recommended capital facility projects needed to provide the desired level of storm drain service to various parts of the City at projected full build-out conditions. Most of those projects will be constructed in phases as development occurs. Tables 1 and 2 list capital facility projects identified in the SDMP report that should be constructed within the next 6 years to meet the needs of anticipated

development. Demands placed upon existing storm drain facilities by future development were determined using the process outlined below. Each of the steps were developed as part of the SDMP report and associated analyses. A detailed description of the steps outlined below can be found in the SDMP report. It is important to note that a demand analysis for the Towne Center was not completed with this IFFP, nor was it completed with the SDMP report.

1. **Existing Capacity** – The capacities in existing storm drain pipelines were estimated using Manning's equation, pipe size, and slope data provided by the City (See Chapters 3 and 4 of the SDMP report).
2. **Existing Flow** – The peak flow rates for existing development conditions were estimated using a hydrologic computer model (See Chapters 3 and 4 of the SDMP report).
3. **Existing Deficiencies** – Existing system capacity deficiencies in the storm drain system were identified using the defined level of service, peak flow estimates from the hydrologic computer model, and the estimated capacities for existing system facilities. Identified deficiencies were verified by City staff (see Chapter 5 of the SDMP report).
4. **Future Flow** - The peak flow rates for the design storm based on projected full build-out conditions were estimated using a hydrologic computer model (See Chapter 3 and 4 of the SDMP report).
5. **Future Demand** - Future demands on the storm drain system were identified using the defined level of service, peak flow estimates from the hydrologic computer model and the estimated capacities for existing system facilities. (see Chapters 5, 6 and 7 of the SDMP report).
6. **Recommended Improvements** – Needed storm drain projects were identified to meet demands associated with future development (See Chapter 7 of the SDMP report).

The steps listed above define the "demands placed upon [the] existing public facilities by new development activity; and the proposed means by which the local political subdivision will meet those demands" (Utah Code Ann. § 11-36a-302 (1)(a)(iv)(v)).

ALLOCATED PROJECT COSTS ASSOCIATED WITH NEW DEVELOPMENT

Results from the demand analysis were used to define the proportions of project costs that are needed to serve future development. Two examples of the cost allocation methodology used in this IFFP are presented below:

- **Example 1: Existing Pipeline Undersized for Existing Development:** If the estimated peak flow for existing development conditions in an existing pipeline is 14 cfs, and the existing pipeline has a capacity of 10 cfs, and the estimated future peak flow is 20 cfs, then the existing pipeline will need to be replaced. If the existing pipeline is replaced with a new pipeline that has 20 cfs capacity, then 60 percent of the pipeline replacement cost will be allocated to future growth and 40 percent to existing users.

- **Example 2: No Existing Storm Drain Infrastructure for Existing Development:** An area currently has low impact development (streets without curb and gutter, catch basins, storm drain piping, etc.). As the area continues to develop, the streets will be expanded and storm drain infrastructure will be installed. The estimated peak flow for existing development conditions is 10 cfs, and the estimated future design flow is 40 cfs. In this scenario, 75 percent of the storm drain improvement costs will be allocated to future growth and 25 percent to existing users.

Table 1 shows the recommended cost allocations for recommended capital facility projects that should be constructed in the next 6 years in the West Herriman and South Herriman service areas. The table does not include bond costs related to paying for impact fee eligible improvements.

The recommended improvements from the SDMP report are found in Appendix A. It is also important to remember that recommended improvements summarized in Table 1 are system improvements, and do not include any project improvements. As summarized in Table 1, the total cost that can be allocated to impact fees (not including applicable bond costs) is approximately $7.1 million in West Herriman and South Herriman. The $7.1 million will be allocated to its respective service area in the Impact Fee Analysis.

Based on data provided by the Momentum Development Group, the estimated total cost to construct the recommended Towne Center storm drain infrastructure is $2,985,839. The construction cost that can be attributed to future development is $1,461,082 for the Towne Center storm drain infrastructure.

REVENUE SOURCES

Several revenue sources were considered to pay for the system improvements. Those revenue sources include grants, bonds, interfund loans, impact fees, the general fund, and anticipated or accepted dedication of system improvements. It is recommended that impact fees be used to equitably allocate the costs between future development and existing users.

EXCESS CAPACITY

WEST AND SOUTH HERRIMAN

In an effort to assist in the development of the Impact Fee Analysis, the percentage of the monetary value of the excess capacity of the existing storm drain system that is eligible for reimbursement through impact fees was identified. In this report, the term “excess” capacity will be used interchangeably with available capacity. Available capacity or excess capacity is defined as the capacity in an existing storm drain pipeline that is available to convey the design flows from anticipated future development. To identify the value of the excess capacity, design flow rates for existing and future conditions were compared. The analysis included storm drain piping as a representation of the storm drain system. A summary of the results of this analysis are contained in the Appendix B of this report.

The calculations associated with the value of excess capacity were completed for West Herriman service areas. The limited existing storm drain facilities in South Herriman are project improvements and are not eligible for reimbursement through excess capacity impact fees. The method used to estimate the percentage of the monetary value of the excess capacity of the storm drain system that is eligible for reimbursement through impact fees for West Herriman is presented below:

- **Estimate Capacities of Existing Pipelines –** The capacities in existing storm drain pipelines were estimated using Manning's equation, pipe size, and slope data provided by the City.
- **Estimate Peak Flow Rate –** The design flow in each modeled pipeline was estimated using the computer hydraulic/hydrology model (See Chapters 3 and 4 of the SDMP report) for existing and future development conditions.
- **Eliminate Facilities without Available Capacity –** The projected future design flow was compared against the pipeline's existing capacity. Where the estimated projected future design flow exceeded the existing capacity of the pipeline, the available capacity was assumed to be zero, because the pipeline will need to be replaced. This corresponds to those facilities with deficiencies that are identified in the capital facilities plan (see Chapter 7 of the SDMP report). By assigning an available capacity value of zero, this eliminated double counting those facilities eligible for impact fees.
- **Calculate Percent of Available Capacity in Existing Pipelines –** Where the projected future design flow was less than the existing capacity of the pipeline, the percent of available capacity was calculated by dividing the existing flow rate by the projected future design flow and subtracting the result from one then multiplying by one hundred to convert to a percentage. It is important to note that because the existing pipelines used in this calculation were constructed to convey the projected future design flow, the projected future design flow was used as the capacity of the existing pipeline.
- **Calculate Cost Weighted Average for System –** Each pipeline in the storm drain system has a different monetary value. The value of excess capacity will also vary between pipelines (e.g. 20% excess capacity in a 36-inch, 4000 foot pipeline will be worth much more than 20% excess capacity in an 18-inch, 300 foot pipeline). To account for this situation, the replacement cost was incorporated into the calculation. The replacement cost for the each modeled pipeline was multiplied by the percent of available capacity, than summed over the system as a whole. For a summary of the detailed analysis, see Appendix B. It should be emphasized that replacement value was used for cost weighting only. In the final calculation of the impact fee, only the actual value of facilities will be used.

Based on the method described above, the percentage of the monetary value of the excess capacity of the West Herriman service area existing storm drain system that is eligible for reimbursement through impact fees is 20.4 percent.

TOWNE CENTER

The Towne Center service area contains 373 acres. According to information provided by the Momentum Development Group, about half of the storm drain system in the Towne Center has been constructed and provides service to approximately 190 acres. One hundred and one acres of the service area have been platted and have previously paid storm drain impact fees in the Towne Center. Therefore, the existing storm drain system has 47 percent available capacity to serve 89 acres of future development. The 47 percent available capacity in the existing Towne Center storm drain system is eligible to be reimbursed through impact fees, imposed in the Towne Center.

IMPACT FEE FACILITIES PLAN CERTIFICATION

The analysis contained in this report has been prepared based on growth and system information provided by the City of Herriman. Based on the data and growth assumptions provided and assuming the City follows the improvement plan outlined in this report, BC&A certifies that, to the best of our knowledge and in accordance with Utah Code Ann. § 11-36a-306, this impact fee facilities plan:

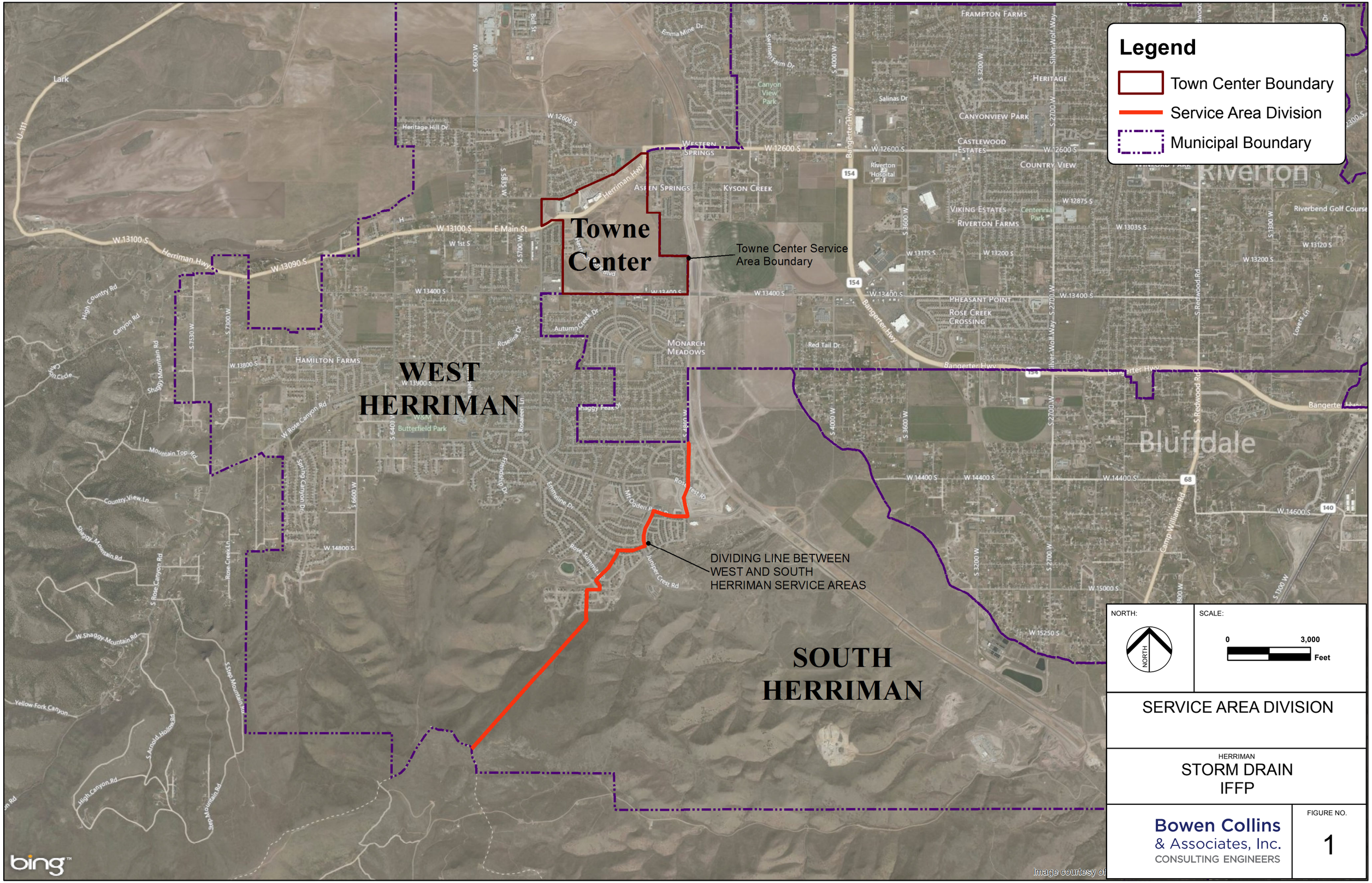
1. Includes only the costs for qualifying public facilities that are:
    a. allowed under the Impact Fees Act; and
    b. actually incurred; or
    c. projected to be incurred or encumbered within six years after the day on which each impact fee is paid;
2. Does not include:
    a. costs for operation or maintenance of public facilities;
    b. costs for qualifying public facilities that will raise the level of service for the facilities through impact fees, above the level of service that is supported by existing residents;
    c. an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with generally accepted cost accounting practices and the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursement; and
3. Complies in each and every other relevant respect with the Impact Fees Act.

Table 1
Impact Fee Facilities Plan – Project Costs that can be Allocated to Projected Development For FY 2013-2018

Project Identifier[1]	Construction Year	Total Estimated Cost	Total Estimated Cost By Year	Existing Capacity (cfs or Ac-ft)	Existing Flow or Volume (cfs or Ac-ft)	Future Flow or Volume (cfs or Ac-ft)	Percentage of Cost Attributable to:		Cost Attributable to:	
							Existing Deficiency[2]	Future Development	Existing Deficiency[2]	Future Development
OC 17	2014	$828,385	$2,093,914	-	2.0	86.0	2%	98%	$19,265	$809,120
P 15		$305,216		-	7.9	11.0	72%	28%	$219,201	$86,015
P 17		$354,858		-	0.4	4.0	10%	90%	$35,486	$319,373
OC 19		$605,455		-	27.1	130.0	21%	79%	$126,383	$479,071
P 21	2015	$335,829	$2,397,394	-	15.7	32.4	49%	51%	$163,110	$172,720
P 8		$666,021		-	12.0	14.1	38%	62%	$256,301	$409,720
P 1		$359,785		-	27.6	44.9	61%	39%	$221,159	$138,625
OC 18		$427,246		-	25.1	41.0	61%	39%	$261,937	$165,309
P 22		$608,514		-	18.1	47.0	38%	62%	$234,171	$374,343
P 23	2016	$346,562	$3,301,259	-	38.6	79.4	49%	51%	$168,323	$178,240
P 3		$26,526		4.3	70.1	79.5	83%	17%	$21,939	$4,587
DB 5		$697,400		3.5	5.2	7.3	23%	77%	$159,542	$537,858
P 7		$1,198,750		-	118.0	182.0	65%	35%	$777,212	$421,539
P 24		$596,546		-	6.1	15.8	38%	62%	$229,565	$366,981
P 25		$435,475		-	6.2	16.2	38%	62%	$167,581	$267,894
P 27	2017	$307,594	$2,956,159	-	9.1	23.7	38%	62%	$118,369	$189,224
DB 1		$370,600		2.0	2.6	3.0	20%	80%	$75,780	$294,820
P 2		$37,118		3.5	26.0	41.6	54%	46%	$20,076	$17,042
P 5		$1,276,292		-	102.9	110.0	94%	6%	$1,193,913	$82,379
OC 7		$501,762		-	2.0	40.0	5%	95%	$25,088	$476,674
P 26		$462,793		-	4.7	12.1	38%	62%	$178,094	$284,699

Project Identifier[1]	Construction Year	Total Estimated Cost	Total Estimated Cost By Year	Existing Capacity (cfs or Ac-ft)	Existing Flow or Volume (cfs or Ac-ft)	Future Flow or Volume (cfs or Ac-ft)	Percentage of Cost Attributable to:		Cost Attributable to:	
							Existing Deficiency[2]	Future Development	Existing Deficiency[2]	Future Development
OC 5	2018	$447,271	$447,271	-	0.0	36.0	0%	100%	-	$447,271
P 18	2019	$304,821	$2,118,221	-	78.5	90.0	87%	13%	$265,905	$38,915
DB 2		$1,813,400		-	7.9	11.0	72%	28%	$1,302,351	$511,049
Totals		**$13,314,219**	**$13,314,219**	**-**	**-**	**-**	**44%**	**56%**	**$6,240,750**	**$7,073,469**

1 See Figures 7-1 and 7-2 in Appendix A for Project Location.
2 Existing Deficiencies will not be paid for using impact fees.


Legend
Town Center Boundary
Service Area Division
Municipal Boundary
Towne Center
Towne Center Service Area Boundary
WEST HERRIMAN
SOUTH HERRIMAN
DIVIDING LINE BETWEEN WEST AND SOUTH HERRIMAN SERVICE AREAS
Riverton
Bluffdale
Herriman Hwy
Bangerter Hwy
W 13100 S
W 13090 S
W 12600 S
W 13400 S
W 14400 S
W 14600 S
W 15000 S
W 15250 S
Western Springs
Aspen Springs
Kyson Creek
Monarch Meadows
Hamilton Farms
Frampton Farms
Heritage
Canyonview Park
Castlewood Estates
Country View
Viking Estates
Riverton Farms
Pheasant Point
Rose Creek Crossing
Riverton Hospital
Canyon View Park
Butterfield Park
Riverbend Golf Course
NORTH:
SCALE:
0
3,000
Feet
SERVICE AREA DIVISION
HERRIMAN
STORM DRAIN
IFFP
Bowen Collins
& Associates, Inc.
CONSULTING ENGINEERS
FIGURE NO.
1
Image courtesy of

APPENDIX A
HERRIMAN STORM DRAIN MASTER PLAN
RECOMMENDED SYSTEM IMPROVEMENTS

RECOMMENDED PIPELINE IMPROVEMENTS

Figures A-1 and A-2 shows the location of recommended pipeline improvements that are needed to meet future growth in Herriman. Table A-1 summarizes the cost of the proposed improvements in 2012 dollars.

Table A-1
Storm Drain Trunkline Improvements

Project ID	Total Length (ft)	Range of Diameters (in)	Cost (2012 Dollars)
P 1	1,182	36	$ 359,785
P 2	131	42	$ 37,118
P 3	108	36	$ 26,526
P 4	1,104	48	$ 357,199
P 5	3,553	42-48	$ 1,276,292
P 6	3,088	36	$ 716,837
P 7	3,654	48	$ 1,198,750
P 8	3,338	30	$ 666,021
P 9	2,805	18	$ 447,678
P 10	548	24	$ 92,301
P 11	1,882	18	$ 296,716
P 12	2,103	18	$ 336,515
P 13	909	36	$ 214,590
P 14	1,186	24	$ 196,819
P 15	1,797	24	$ 305,216
P 16	649	18	$ 102,628
P 17	2,069	24	$ 354,858
P 18	1,303	36	$ 304,821
P 19	1,460	42	$ 404,377
P 20	1,093	24	$ 184,255
P 21	1,094	36	$ 335,829
P 22	2,415	36-42	$ 608,514
P 23	956	42	$ 346,562
P 24	2,499	24	$ 596,546
P 25	1,604	30	$ 435,475
P 26	2,514	18	$ 462,793
P 27	1,165	30	$ 307,594
Total	**-**	**-**	**$10,973,000**

OPEN CHANNEL IMPROVEMENTS

Figures A-1 and A-2 shows the location of recommended open channel improvements that are needed to meet future growth in Herriman on facilities that are not under the jurisdiction of Salt Lake County. Table A-2 lists the recommended local open channel improvements in Herriman.

Salt Lake County's SWCC study indicates that channel improvements need to be completed in Butterfield Creek within Herriman City limits prior to development. The location of the improvements are shown on Figure A-1. It is recommended that development does not occur along Butterfield Creek until those improvements are completed or the County gives approval for development. The improvements along Butterfield Creek will not be included on Herriman's CIP.

Table A-2
Natural Channel Improvements

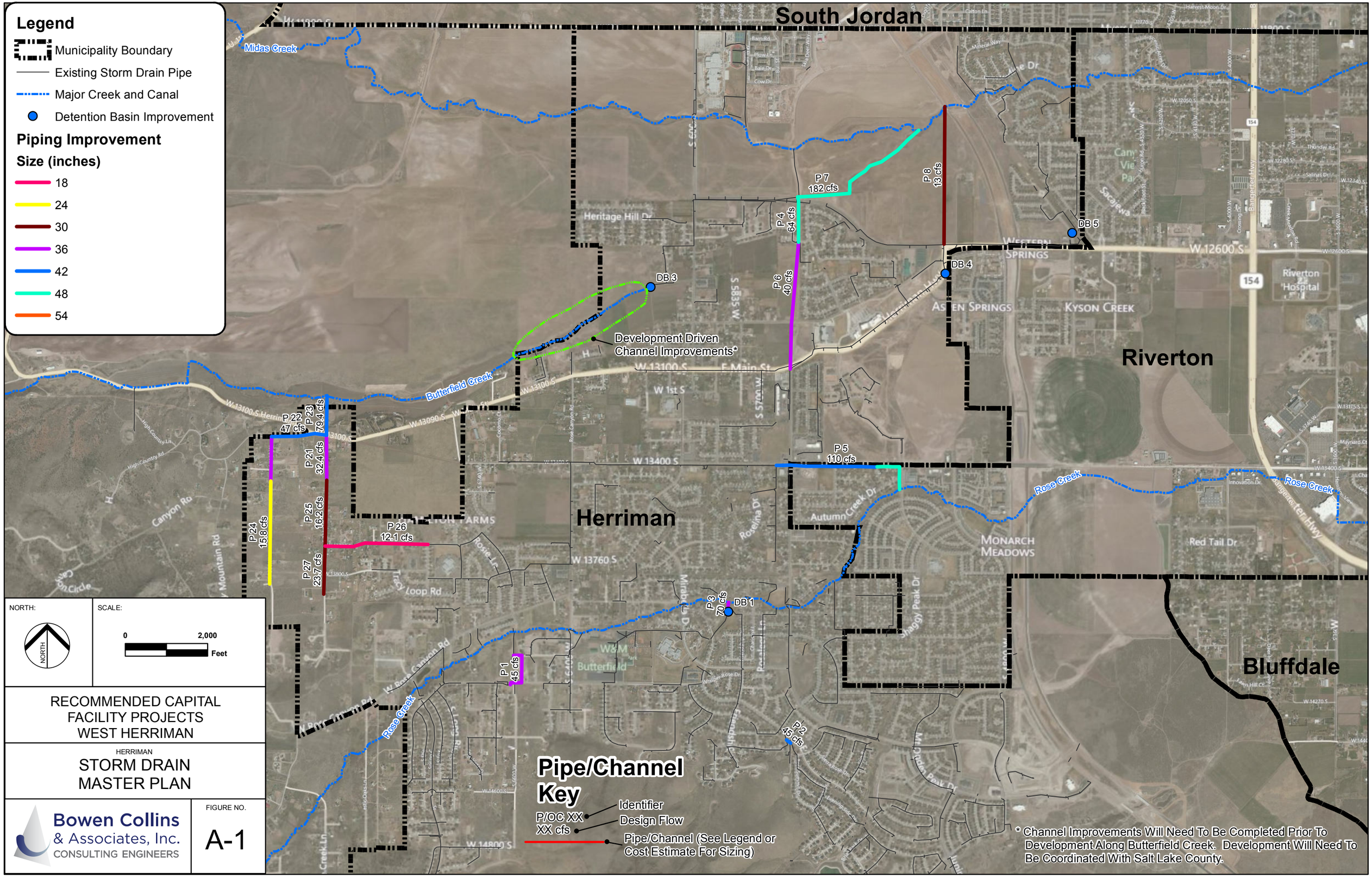
Channel ID	Total Length (ft)	Assumed Bottom Width (ft)	Assumed Channel Depth (ft)	Cost (2012 Dollars)
OC 1	2005	3	4	$268,929
OC 2	2158	3	4	$289,580
OC 3	1657	3	4	$222,262
OC 4	2069	3	4	$277,581
OC 5	2735	3	5	$447,271
OC 6	2406	3	4	$322,858
OC 7	3068	3	5	$501,762
OC 8	4364	3	4	$585,482
OC 9	2859	3	4	$383,504
OC 10	1804	3	4	$242,027
OC 11	2023	3	4	$271,348
OC 12	544	3	4	$73,017
OC 13	633	3	4	$84,929
OC 14	677	3	4	$90,818
OC 15	1343	3	4	$180,117
OC 16	3879	3	4	$520,364
OC 17	3811	5	6	$828,385
OC 18	3185	3	4	$427,246
OC 19	2339	10	6	$605,455
OC 20	1433	3	4	$192,310
OC 21	3058	3	5	$562,583
Total	**-**	**-**	**-**	**$7,377,827**

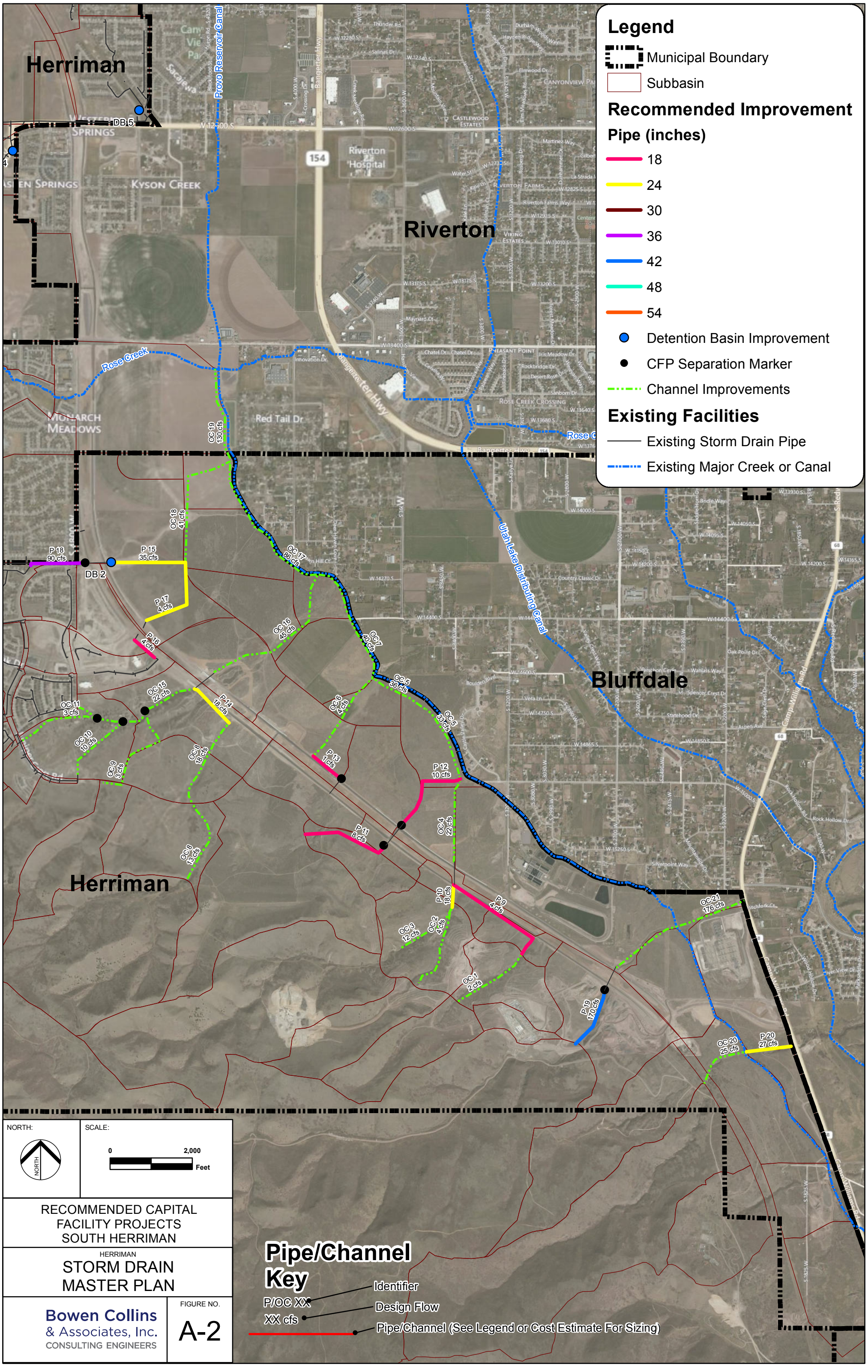
DETENTION BASIN IMPROVEMENTS

Figures A-1 and A-2 shows the location of recommended detention basin improvements that are needed to meet future growth in Herriman. Table A-3 lists the recommended detention volumes and costs for detention facilities in Herriman.

Table A-3
Required Capacity at Detention Basins

Detention Basin	Future Required Volume (acre-feet)	Cost (2012 Dollars)
DB 1	3.0	$ 370,600
DB 2	11.0	$ 1,813,400
DB 3	23.9	$ 3,945,800
DB 4	3.4	$ 358,600
DB 5	7.3	$ 697,400
Total	**-**	**$ 7,185,800**


Legend
Municipality Boundary
Existing Storm Drain Pipe
Major Creek and Canal
Detention Basin Improvement
Piping Improvement
Size (inches)
18
24
30
36
42
48
54
South Jordan
Riverton
Herriman
Bluffdale
Midas Creek
Butterfield Creek
Rose Creek
P 7
182 cfs
P 8
13 cfs
P 4
64 cfs
P 6
40 cfs
P 5
110 cfs
P 3
70 cfs
P 2
45 cfs
P 1
45 cfs
P 21
32.4 cfs
P 22
47 cfs
P 23
79.4 cfs
P 24
15.8 cfs
P 25
16.2 cfs
P 26
12.1 cfs
P 27
23.7 cfs
DB 1
DB 3
DB 4
DB 5
Development Driven
Channel Improvements*
Pipe/Channel
Key
P/OC XX
Identifier
XX cfs
Design Flow
Pipe/Channel (See Legend or
Cost Estimate For Sizing)
* Channel Improvements Will Need To Be Completed Prior To
Development Along Butterfield Creek. Development Will Need To
Be Coordinated With Salt Lake County.
NORTH:
SCALE:
0
2,000
Feet
RECOMMENDED CAPITAL
FACILITY PROJECTS
WEST HERRIMAN
HERRIMAN
STORM DRAIN
MASTER PLAN
Bowen Collins
& Associates, Inc.
CONSULTING ENGINEERS
FIGURE NO.
A-1



RECOMMENDED CAPITAL FACILITY PROJECTS SOUTH HERRIMAN

HERRIMAN
STORM DRAIN MASTER PLAN

Bowen Collins & Associates, Inc.
CONSULTING ENGINEERS

FIGURE NO.
A-2

APPENDIX B
AVAILABLE CAPACITY CALCULATIONS

FacilityID	Pipe Size (in)	Pipe Length (ft)	Existing Flow (cfs)	Future Flow (cfs)	Replacement Cost (2012 $)	Design Flows Expressed as % of Pipe Capacity		Estimated Replacement Cost Allocation (Based on Design Flow)	
						Existing	Future	Existing Users Allocation	Future Allocation
486	24	39	10.71	11.09	$ 3,933	97%	3%	$ 3,798.07	$ 134.76
487	24	301	10.71	11.09	$ 30,090	97%	3%	$ 29,058.52	$ 1,031.02
488	24	399	10.71	11.09	$ 39,851	97%	3%	$ 38,485.71	$ 1,365.51
489	24	110	10.71	11.09	$ 11,050	97%	3%	$ 10,671.26	$ 378.63
493	18	251	6.02	6.54	$ 22,585	92%	8%	$ 20,789.21	$ 1,795.75
494	18	5	6.02	6.54	$ 421	92%	8%	$ 387.13	$ 33.44
748	24	124	10.72	11.09	$ 12,364	97%	3%	$ 11,951.96	$ 412.52
789	18	234	6.02	6.54	$ 21,096	92%	8%	$ 19,418.75	$ 1,677.37
790	18	31	6.02	6.54	$ 2,817	92%	8%	$ 2,592.84	$ 223.97
791	18	352	6.02	6.54	$ 31,660	92%	8%	$ 29,143.13	$ 2,517.35
792	18	160	6.02	6.54	$ 14,386	92%	8%	$ 13,242.37	$ 1,143.86
793	18	79	12.06	6.54	$ 7,096	92%	8%	$ 6,531.97	$ 564.22
794	18	178	12.06	6.54	$ 15,976	92%	8%	$ 14,705.53	$ 1,270.25
795	24	245	12.06	6.54	$ 24,471	92%	8%	$ 22,525.43	$ 1,945.72
796	24	26	12.06	6.57	$ 2,608	92%	8%	$ 2,400.62	$ 207.36
1610	36	60	44.39	63.11	$ 8,653	70%	30%	$ 6,086.34	$ 2,566.71
1611	36	138	44.39	63.12	$ 20,008	70%	30%	$ 14,070.97	$ 5,937.13
1613	36	94	44.39	63.04	$ 13,603	70%	30%	$ 9,578.37	$ 4,024.25
1614	36	38	44.4	63.04	$ 5,535	70%	30%	$ 3,898.39	$ 1,636.62
1621	36	239	44.39	63.11	$ 34,586	70%	30%	$ 24,326.86	$ 10,259.04
1624	36	62	44.39	63.11	$ 8,990	70%	30%	$ 6,323.11	$ 2,666.56
1625	36	97	44.39	63.11	$ 14,057	70%	30%	$ 9,887.50	$ 4,169.72
1640	36	64	4.93	30.1	$ 9,291	16%	84%	$ 1,521.79	$ 7,769.47
1641	36	110	4.93	30.1	$ 15,903	16%	84%	$ 2,604.74	$ 13,298.42
1646	36	308	4.93	92.67	$ 44,629	5%	95%	$ 2,374.24	$ 42,254.78
1647	36	310	4.93	30.1	$ 44,974	16%	84%	$ 7,366.12	$ 37,607.58
1649	36	361	44.4	63.11	$ 52,324	70%	30%	$ 36,811.48	$ 15,512.22
1651	36	306	44.4	63.11	$ 44,339	70%	30%	$ 31,193.87	$ 13,144.98
1653	36	326	44.4	63.11	$ 47,341	70%	30%	$ 33,305.84	$ 14,034.96
1654	36	189	44.39	63.11	$ 27,361	70%	30%	$ 19,244.70	$ 8,115.81
1656	36	95	44.39	63.11	$ 13,728	70%	30%	$ 9,656.17	$ 4,072.17
1733	18	88	6.02	6.55	$ 7,954	92%	8%	$ 7,310.27	$ 643.59
1968	36	36	4.93	30.1	$ 5,210	16%	84%	$ 853.27	$ 4,356.33
1969	36	325	4.93	30.1	$ 47,170	16%	84%	$ 7,725.80	$ 39,443.90
1970	36	175	4.93	30.1	$ 25,369	16%	84%	$ 4,155.14	$ 21,213.99
1971	36	172	4.93	30.1	$ 24,888	16%	84%	$ 4,076.27	$ 20,811.32
1972	36	35	4.93	30.1	$ 5,105	16%	84%	$ 836.09	$ 4,268.64
1973	36	201	4.93	30.1	$ 29,207	16%	84%	$ 4,783.66	$ 24,422.88
1974	36	166	4.93	30.1	$ 24,128	16%	84%	$ 3,951.90	$ 20,176.33
1975	36	75	4.93	30.1	$ 10,864	16%	84%	$ 1,779.33	$ 9,084.33
2015	36	67	44.4	60.14	$ 9,769	74%	26%	$ 7,212.28	$ 2,556.79
2019	36	73	4.93	30.1	$ 10,555	16%	84%	$ 1,728.75	$ 8,826.10
2020	36	19	4.93	30.1	$ 2,714	16%	84%	$ 444.53	$ 2,269.56
2021	36	206	4.93	30.1	$ 29,839	16%	84%	$ 4,887.18	$ 24,951.38
2023	36	29	4.94	30.1	$ 4,270	16%	84%	$ 700.84	$ 3,569.48
2030	18	188	4.93	30.1	$ 16,925	16%	84%	$ 2,772.06	$ 14,152.68
2102	30	36	10.71	11.09	$ 4,288	97%	3%	$ 4,141.25	$ 146.94
2103	18	68	10.71	11.09	$ 6,123	97%	3%	$ 5,913.40	$ 209.81
2447	30	258	27.65	44.87	$ 30,915	62%	38%	$ 19,050.29	$ 11,864.23
2454	30	92	30.6	52.96	$ 11,072	58%	42%	$ 6,397.19	$ 4,674.54
2455	36	130	30.61	52.95	$ 18,891	58%	42%	$ 10,920.93	$ 7,970.39
2456	30	105	30.6	52.96	$ 12,592	58%	42%	$ 7,275.70	$ 5,316.49
2457	30	79	30.6	52.95	$ 9,440	58%	42%	$ 5,455.22	$ 3,984.45
2631	24	233	158.97	6.54	$ 23,274	92%	8%	$ 21,423.53	$ 1,850.54
2732	18	23	4.93	30.1	$ 2,030	16%	84%	$ 332.52	$ 1,697.67
2733	18	220	4.93	30.1	$ 19,761	16%	84%	$ 3,236.56	$ 16,524.19
2739	30	18	27.65	44.87	$ 2,150	62%	38%	$ 1,324.95	$ 825.16
2753	18	78	6.02	6.55	$ 7,055	92%	8%	$ 6,484.46	$ 570.89
2795	30	387	30.6	52.96	$ 46,389	58%	42%	$ 26,803.55	$ 19,585.86

FacilityID	Pipe Size (in)	Pipe Length (ft)	Existing Flow (cfs)	Future Flow (cfs)	Replacement Cost (2012 $)	Design Flows Expressed as % of Pipe Capacity		Estimated Replacement Cost Allocation (Based on Design Flow)	
						Existing	Future	Existing Users Allocation	Future Allocation
2801	24	261	10	10	$ 26,073	100%	0%	$ 26,073.33	$ -
2807	18	47	2.44	15.01	$ 4,259	16%	84%	$ 692.38	$ 3,566.92
2816	18	342	2.44	15	$ 30,787	16%	84%	$ 5,008.03	$ 25,779.06
2817	30	273	2.44	15.03	$ 32,721	16%	84%	$ 5,311.92	$ 27,408.66
2818	24	31	2.44	15	$ 3,117	16%	84%	$ 507.08	$ 2,610.20
2820	30	256	2.44	15	$ 30,698	16%	84%	$ 4,993.54	$ 25,704.43
2822	36	58	2.44	15	$ 8,408	16%	84%	$ 1,367.68	$ 7,040.21
2830	36	406	30.6	52.95	$ 58,802	58%	42%	$ 33,982.17	$ 24,820.31
2831	36	261	30.6	52.96	$ 37,901	58%	42%	$ 21,899.03	$ 16,002.04
3004	30	87	2.44	15	$ 10,496	16%	84%	$ 1,707.38	$ 8,788.80
3149	36	432	27.61	44.86	$ 62,679	62%	38%	$ 38,577.09	$ 24,101.95
489	24	53	10	10	$ 5,312	100%	0%	$ 5,311.80	$ -
1	24	78	11.96	12.38	$ 7,804	97%	3%	$ 7,539.44	$ 264.76
2	24	504	11.96	12.38	$ 50,440	97%	3%	$ 48,728.81	$ 1,711.21
4	24	182	11.96	12.38	$ 18,215	97%	3%	$ 17,597.09	$ 617.96
5	24	161	11.96	12.38	$ 16,143	97%	3%	$ 15,595.29	$ 547.66
7	24	22	11.96	12.38	$ 2,222	97%	3%	$ 2,146.42	$ 75.38
9	24	40	11.96	12.38	$ 4,015	97%	3%	$ 3,878.40	$ 136.20
15	24	60	21.02	21.35	$ 5,976	97%	3%	$ 5,772.78	$ 202.72
16	24	62	11.96	12.38	$ 6,165	97%	3%	$ 5,955.45	$ 209.14
30	36	35	17.93	18.1	$ 5,066	99%	1%	$ 5,018.13	$ 47.58
37	36	308	55.91	55.98	$ 44,594	100%	0%	$ 44,537.75	$ 55.76
98	36	196	55.84	65.21	$ 28,384	86%	14%	$ 24,305.72	$ 4,078.52
164	36	176	35.38	49.6	$ 25,459	100%	0%	$ 25,458.60	$ -
165	36	171	24.96	39.43	$ 24,774	100%	0%	$ 24,773.75	$ -
177	30	182	17.93	18.1	$ 21,852	99%	1%	$ 21,646.59	$ 205.24
178	30	111	17.93	18.1	$ 13,273	99%	1%	$ 13,147.96	$ 124.66
179	30	187	17.93	18.1	$ 22,464	99%	1%	$ 22,252.90	$ 210.99
180	30	281	17.93	18.1	$ 33,750	99%	1%	$ 33,432.97	$ 316.99
183	30	41	17.93	18.1	$ 4,884	99%	1%	$ 4,838.61	$ 45.88
184	30	160	17.93	18.1	$ 19,155	99%	1%	$ 18,975.44	$ 179.91
185	30	201	17.93	18.1	$ 24,147	99%	1%	$ 23,920.28	$ 226.80
186	30	148	17.93	18.1	$ 17,773	99%	1%	$ 17,606.17	$ 166.93
189	30	243	17.93	18.1	$ 29,203	99%	1%	$ 28,929.07	$ 274.29
190	30	50	17.93	18.1	$ 5,985	99%	1%	$ 5,928.36	$ 56.21
192	30	412	17.93	18.1	$ 49,466	99%	1%	$ 49,001.19	$ 464.60
212	18	44	24.96	29.43	$ 3,956	85%	15%	$ 3,355.10	$ 600.85
218	30	98	24.96	29.43	$ 11,817	85%	15%	$ 10,022.19	$ 1,794.84
219	30	86	24.96	29.43	$ 10,263	85%	15%	$ 8,703.95	$ 1,558.76
220	30	442	24.96	29.43	$ 53,001	85%	15%	$ 44,951.14	$ 8,050.14
221	30	83	24.96	29.43	$ 9,987	85%	15%	$ 8,470.27	$ 1,516.91
222	30	308	24.96	29.43	$ 36,979	85%	15%	$ 31,362.16	$ 5,616.54
223	30	30	24.95	29.43	$ 3,558	85%	15%	$ 3,016.76	$ 541.69
224	36	60	24.95	39.43	$ 8,669	63%	37%	$ 5,485.67	$ 3,183.67
239	30	133	24.04	28.81	$ 15,922	83%	17%	$ 13,285.84	$ 2,636.17
292	36	39	35.38	49.6	$ 5,658	71%	29%	$ 4,036.20	$ 1,622.24
350	36	238	35.39	49.6	$ 34,453	71%	29%	$ 24,582.33	$ 9,870.44
366	24	31	0	0	$ 3,074	100%	0%	$ 3,074.31	$ -
367	24	296	0	0	$ 29,585	100%	0%	$ 29,584.52	$ -
441	36	275	0	0	$ 39,930	100%	0%	$ 39,930.36	$ -
442	36	412	0	0	$ 59,799	100%	0%	$ 59,798.95	$ -
444	18	7	0	0	$ 589	100%	0%	$ 588.58	$ -
445	30	319	0	0	$ 38,333	100%	0%	$ 38,332.89	$ -
448	15	279	0	0	$ 22,328	100%	0%	$ 22,328.41	$ -
453	24	57	0	0	$ 5,663	100%	0%	$ 5,663.19	$ -
454	24	76	0	0	$ 7,637	100%	0%	$ 7,636.94	$ -
455	36	394	56.46	55.98	$ 57,119	100%	0%	$ 57,118.52	$ -
458	24	300	7.45	7.77	$ 29,993	96%	4%	$ 28,757.36	$ 1,235.22
463	24	59	0	0	$ 5,874	100%	0%	$ 5,874.28	$ -

FacilityID	Pipe Size (in)	Pipe Length (ft)	Existing Flow (cfs)	Future Flow (cfs)	Replacement Cost (2012 $)	Design Flows Expressed as % of Pipe Capacity		Estimated Replacement Cost Allocation (Based on Design Flow)	
						Existing	Future	Existing Users Allocation	Future Allocation
464	24	162	0	0	$ 16,153	100%	0%	$ 16,152.82	$ -
465	24	63	0	0	$ 6,296	100%	0%	$ 6,295.68	$ -
466	24	29	0	0	$ 2,925	100%	0%	$ 2,924.63	$ -
467	24	63	0	0	$ 6,348	100%	0%	$ 6,347.90	$ -
468	24	394	0	0	$ 39,398	100%	0%	$ 39,397.59	$ -
502	36	28	22.38	23.15	$ 4,118	97%	3%	$ 3,981.21	$ 136.98
525	24	262	7.45	7.77	$ 26,189	96%	4%	$ 25,110.55	$ 1,078.57
555	36	401	55.92	55.98	$ 58,109	100%	0%	$ 58,046.96	$ 62.28
556	36	394	55.91	55.98	$ 57,108	100%	0%	$ 57,036.49	$ 71.41
558	36	171	55.91	55.98	$ 24,732	100%	0%	$ 24,700.76	$ 30.93
559	36	300	55.91	55.98	$ 43,460	100%	0%	$ 43,405.34	$ 54.34
560	36	264	55.91	55.98	$ 38,223	100%	0%	$ 38,174.84	$ 47.80
564	36	1086	55.91	55.98	$ 157,454	100%	0%	$ 157,256.66	$ 196.89
565	36	698	55.91	55.98	$ 101,195	100%	0%	$ 101,068.88	$ 126.54
566	36	22	55.91	55.98	$ 3,134	100%	0%	$ 3,130.40	$ 3.92
567	36	256	55.91	55.98	$ 37,062	100%	0%	$ 37,016.14	$ 46.34
568	36	70	55.91	55.98	$ 10,204	100%	0%	$ 10,190.98	$ 12.76
569	36	474	55.91	55.98	$ 68,767	100%	0%	$ 68,681.26	$ 85.99
570	36	83	55.91	55.99	$ 12,041	100%	0%	$ 12,023.72	$ 17.20
571	36	318	55.91	55.98	$ 46,141	100%	0%	$ 46,083.72	$ 57.70
572	36	163	55.91	55.98	$ 23,615	100%	0%	$ 23,585.44	$ 29.53
573	36	349	55.91	55.98	$ 50,614	100%	0%	$ 50,550.57	$ 63.29
574	36	40	55.92	55.98	$ 5,761	100%	0%	$ 5,755.23	$ 6.18
575	36	327	55.92	55.99	$ 47,366	100%	0%	$ 47,307.25	$ 59.22
576	36	399	55.98	56.06	$ 57,820	100%	0%	$ 57,737.14	$ 82.51
577	36	399	56	56.06	$ 57,845	100%	0%	$ 57,783.02	$ 61.91
578	36	404	56	56.06	$ 58,524	100%	0%	$ 58,461.42	$ 62.64
598	30	89	17.49	22.22	$ 10,732	79%	21%	$ 8,447.69	$ 2,284.60
601	24	507	0	0	$ 50,673	100%	0%	$ 50,672.95	$ -
626	18	238	0	0	$ 21,428	100%	0%	$ 21,428.11	$ -
627	15	63	0	0	$ 5,036	100%	0%	$ 5,035.59	$ -
728	42	412	36.46	23.15	$ 74,244	97%	3%	$ 71,774.07	$ 2,469.44
740	21	189	5.19	5.22	$ 17,962	99%	1%	$ 17,858.43	$ 103.23
772	30	48	23.63	23.65	$ 5,715	100%	0%	$ 5,710.48	$ 4.83
900	15	17	4.46	4.6	$ 1,326	97%	3%	$ 1,286.10	$ 40.37
902	18	40	4.46	4.6	$ 3,562	97%	3%	$ 3,453.93	$ 108.42
904	30	224	4.45	4.6	$ 26,822	97%	3%	$ 25,947.74	$ 874.64
907	30	65	4.45	4.6	$ 7,814	97%	3%	$ 7,559.43	$ 254.81
908	30	111	4.45	4.6	$ 13,314	97%	3%	$ 12,879.82	$ 434.15
909	30	36	4.44	4.6	$ 4,281	97%	3%	$ 4,132.37	$ 148.91
912	36	67	4.44	4.6	$ 9,652	97%	3%	$ 9,316.30	$ 335.72
924	30	83	4.44	4.6	$ 9,978	97%	3%	$ 9,630.86	$ 347.06
925	24	77	4.44	4.6	$ 7,657	97%	3%	$ 7,391.06	$ 266.34
926	24	129	4.44	4.6	$ 12,891	97%	3%	$ 12,442.91	$ 448.39
933	24	283	4.41	4.6	$ 28,335	96%	4%	$ 27,164.87	$ 1,170.37
934	36	216	0	11.08	$ 31,248	100%	0%	$ 31,247.75	$ -
935	36	175	0	11.08	$ 25,418	100%	0%	$ 25,418.43	$ -
936	36	152	0	11.08	$ 22,088	100%	0%	$ 22,088.38	$ -
939	36	65	0	11.08	$ 9,409	100%	0%	$ 9,409.15	$ -
955	30	89	4.41	15.62	$ 10,734	28%	72%	$ 3,030.45	$ 7,703.25
956	30	40	4.41	15.62	$ 4,812	28%	72%	$ 1,358.57	$ 3,453.42
959	30	231	4.4	15.62	$ 27,720	28%	72%	$ 7,808.43	$ 19,911.50
962	30	202	4.39	15.62	$ 24,244	28%	72%	$ 6,813.67	$ 17,429.95
963	30	172	58.5	58.52	$ 20,616	100%	0%	$ 20,609.36	$ 7.05
966	30	139	56	56.06	$ 16,697	100%	0%	$ 16,679.47	$ 17.87
967	30	459	56	56.06	$ 55,021	100%	0%	$ 54,961.85	$ 58.89
974	18	198	10	0	$ 17,859	100%	0%	$ 17,858.52	$ -
975	18	33	10	0	$ 3,014	100%	0%	$ 3,013.60	$ -
989	21	221	0	0	$ 20,995	100%	0%	$ 20,995.33	$ -

FacilityID	Pipe Size (in)	Pipe Length (ft)	Existing Flow (cfs)	Future Flow (cfs)	Replacement Cost (2012 $)	Design Flows Expressed as % of Pipe Capacity		Estimated Replacement Cost Allocation (Based on Design Flow)	
						Existing	Future	Existing Users Allocation	Future Allocation
990	21	96	0	0	$ 9,082	100%	0%	$ 9,081.96	$ -
991	18	209	0	0	$ 18,806	100%	0%	$ 18,805.73	$ -
1002	36	330	0.18	1.61	$ 47,902	11%	89%	$ 5,355.55	$ 42,546.83
1134	24	307	5.19	5.22	$ 30,668	99%	1%	$ 30,491.46	$ 176.25
1136	24	76	5.19	5.22	$ 7,633	99%	1%	$ 7,589.50	$ 43.87
1137	24	137	5.19	5.22	$ 13,709	99%	1%	$ 13,630.43	$ 78.79
1155	36	319	5.19	5.22	$ 46,185	99%	1%	$ 45,919.32	$ 265.43
1184	24	50	5.19	5.22	$ 5,032	99%	1%	$ 5,002.60	$ 28.92
1186	36	81	5.19	5.22	$ 11,809	99%	1%	$ 11,741.00	$ 67.87
1460	48	264	7.42	11.97	$ 56,754	62%	38%	$ 35,180.80	$ 21,573.13
1489	30	177	0	11.08	$ 21,290	100%	0%	$ 21,289.84	$ -
1490	30	392	0	11.08	$ 47,021	100%	0%	$ 47,020.58	$ -
1735	24	103	112.16	3.25	$ 10,337	100%	0%	$ 10,337.20	$ -
1736	24	106	111.69	3.24	$ 10,623	100%	0%	$ 10,622.89	$ -
1738	24	90	82.28	1.77	$ 8,984	100%	0%	$ 8,983.77	$ -
1739	24	31	835.99	0.52	$ 3,052	100%	0%	$ 3,052.08	$ -
1775	18	26	27.02	0	$ 2,360	100%	0%	$ 2,360.03	$ -
1776	24	227	44.28	0	$ 22,694	100%	0%	$ 22,694.01	$ -
1902	30	294	52.49	0	$ 35,269	100%	0%	$ 35,268.75	$ -
1910	24	181	0	0	$ 18,145	100%	0%	$ 18,145.08	$ -
2189	12	33	10	0	$ 2,296	100%	0%	$ 2,296.31	$ -
2227	36	35	0.18	1.62	$ 5,110	11%	89%	$ 567.73	$ 4,541.86
2228	36	34	0.18	1.62	$ 4,946	11%	89%	$ 549.56	$ 4,396.46
2229	36	222	0.18	1.61	$ 32,238	11%	89%	$ 3,604.26	$ 28,633.84
2273	36	28	7.74	12.28	$ 4,014	63%	37%	$ 2,529.87	$ 1,483.93
2275	36	33	7.74	12.28	$ 4,726	63%	37%	$ 2,978.78	$ 1,747.24
2276	36	25	7.74	12.28	$ 3,680	63%	37%	$ 2,319.31	$ 1,360.42
2367	36	92	32.29	32.33	$ 13,305	100%	0%	$ 13,288.85	$ 16.46
2368	30	83	23.63	23.65	$ 9,918	100%	0%	$ 9,909.33	$ 8.39
2394	18	156	2.86	4.55	$ 14,028	63%	37%	$ 8,817.63	$ 5,210.42
2515	27	10	56.02	56.08	$ 1,075	100%	0%	$ 1,073.72	$ 1.15
2523	42	131	7.46	11.98	$ 23,658	62%	38%	$ 14,732.09	$ 8,926.14
2535	18	13	10	0	$ 1,190	100%	0%	$ 1,189.54	$ -
2540	18	93	10	0	$ 8,380	100%	0%	$ 8,380.43	$ -
2552	12	790	4.48	4.6	$ 55,309	97%	3%	$ 53,866.55	$ 1,442.85
2572	36	101	10	0	$ 14,672	100%	0%	$ 14,654.05	$ 18.35
2590	36	372	55.83	65.21	$ 53,922	86%	14%	$ 46,165.79	$ 7,756.32
2607	24	336	23.55	7.57	$ 33,598	100%	0%	$ 33,597.80	$ -
2608	24	294	23.55	7.57	$ 29,401	100%	0%	$ 29,400.59	$ -
2613	30	30	31.96	28.53	$ 3,557	100%	0%	$ 3,556.86	$ -
2614	30	49	31.96	28.53	$ 5,887	100%	0%	$ 5,886.90	$ -
2621	18	17	6.92	10.25	$ 1,539	100%	0%	$ 1,539.02	$ -
2623	24	288	23.55	7.57	$ 28,794	100%	0%	$ 28,793.82	$ -
2624	18	9	16.57	10.27	$ 803	100%	0%	$ 803.11	$ -
2649	30	88	19.3	22.52	$ 10,602	86%	14%	$ 9,085.99	$ 1,515.90
2666	48	278	60.27	76.7	$ 59,863	79%	21%	$ 47,039.77	$ 12,823.35
2673	60	841	60.29	76.7	$ 239,822	79%	21%	$ 188,512.02	$ 51,310.04
2674	48	100	60.28	76.7	$ 21,443	79%	21%	$ 16,852.65	$ 4,590.59
2675	48	80	60.28	76.7	$ 17,146	79%	21%	$ 13,474.98	$ 3,670.52
2676	48	164	60.28	76.7	$ 35,291	79%	21%	$ 27,736.05	$ 7,555.17
2677	48	269	60.28	76.7	$ 57,915	79%	21%	$ 45,516.63	$ 12,398.52
2678	48	294	60.28	76.7	$ 63,220	79%	21%	$ 49,685.90	$ 13,534.21
2679	48	43	60.28	76.7	$ 9,346	79%	21%	$ 7,345.28	$ 2,000.82
2680	48	249	60.28	76.7	$ 53,609	79%	21%	$ 42,132.27	$ 11,476.64
2711	60	544	79.29	191.7	$ 155,157	41%	59%	$ 64,175.15	$ 90,981.58
2717	27	94	23.63	23.65	$ 10,377	100%	0%	$ 10,368.32	$ 8.78
2728	21	29	7.45	7.77	$ 2,731	96%	4%	$ 2,618.80	$ 112.49
2751	15	69	24.96	29.43	$ 5,516	85%	15%	$ 4,678.27	$ 837.81
2756	21	25	7.45	7.77	$ 2,414	96%	4%	$ 2,314.34	$ 99.41

FacilityID	Pipe Size (in)	Pipe Length (ft)	Existing Flow (cfs)	Future Flow (cfs)	Replacement Cost (2012 $)	Design Flows Expressed as % of Pipe Capacity		Estimated Replacement Cost Allocation (Based on Design Flow)	
						Existing	Future	Existing Users Allocation	Future Allocation
2799	42	67	121.94	18.67	$ 11,990	71%	29%	$ 8,512.99	$ 3,477.14
2837	48	70	157.82	18.67	$ 14,958	71%	29%	$ 10,619.90	$ 4,337.70
2838	48	1035	13.26	18.68	$ 222,529	71%	29%	$ 157,961.99	$ 64,566.67
2870	48	365	13.26	18.69	$ 78,368	71%	29%	$ 55,599.57	$ 22,768.15
2874	48	40	8.36	8.36	$ 8,703	100%	0%	$ 8,703.08	$ -
2902	18	217	16.67	0	$ 19,503	100%	0%	$ 19,503.34	$ -
2905	18	25	14.77	0	$ 2,219	100%	0%	$ 2,218.90	$ -
2906	18	349	14.77	0	$ 31,368	100%	0%	$ 31,367.92	$ -
2907	21	306	14.73	0	$ 29,029	100%	0%	$ 29,028.80	$ -
2910	21	124	14.73	0	$ 11,805	100%	0%	$ 11,805.16	$ -
2912	21	135	14.73	0	$ 12,804	100%	0%	$ 12,803.83	$ -
2913	24	415	14.73	0	$ 41,474	100%	0%	$ 41,473.75	$ -
2915	27	351	14.73	0	$ 38,645	100%	0%	$ 38,645.44	$ -
2917	27	328	10	0	$ 36,108	100%	0%	$ 36,108.33	$ -
2919	27	330	14.74	0	$ 36,251	100%	0%	$ 36,251.47	$ -
2921	27	55	14.86	1.17	$ 5,997	100%	0%	$ 5,997.11	$ -
2922	18	36	6.16	10.24	$ 3,258	60%	40%	$ 1,959.79	$ 1,298.04
2923	36	243	51.45	13.04	$ 35,296	100%	0%	$ 35,296.48	$ -
2925	36	297	51.45	13.04	$ 43,108	100%	0%	$ 43,108.18	$ -
2926	42	49	51.29	13.04	$ 8,811	100%	0%	$ 8,811.11	$ -
2928	48	284	50.86	13.04	$ 61,105	100%	0%	$ 61,105.04	$ -
2929	48	91	70.04	13.04	$ 19,644	100%	0%	$ 19,644.17	$ -
2931	48	194	93.46	13.04	$ 41,779	100%	0%	$ 41,778.69	$ -
2932	30	232	45.72	13.04	$ 27,872	100%	0%	$ 27,872.14	$ -
2935	30	65	36.9	13.04	$ 7,771	100%	0%	$ 7,770.75	$ -
2936	30	263	10	0	$ 31,512	100%	0%	$ 31,512.06	$ -
2939	30	37	36.44	13.04	$ 4,462	100%	0%	$ 4,461.66	$ -
2940	30	93	36.44	13.04	$ 11,206	100%	0%	$ 11,206.33	$ -
2945	18	341	6.16	10.24	$ 30,711	60%	40%	$ 18,474.61	$ 12,236.43
2952	30	334	36.44	0	$ 40,130	100%	0%	$ 40,129.75	$ -
2953	30	352	36.44	0	$ 42,286	100%	0%	$ 42,286.42	$ -
2954	30	349	36.44	0	$ 41,875	100%	0%	$ 41,875.17	$ -
2955	30	319	43.43	0	$ 38,265	100%	0%	$ 38,265.22	$ -
2977	18	115	19.87	0.01	$ 10,333	100%	0%	$ 10,332.51	$ -
2978	18	38	19.87	0	$ 3,398	100%	0%	$ 3,397.87	$ -
3040	60	504	79.29	191.7	$ 143,691	41%	59%	$ 59,432.92	$ 84,258.48
3094	60	19	10	0	$ 5,375	79%	21%	$ 4,245.96	$ 1,128.67
3095	60	191	60.28	76.7	$ 54,336	79%	21%	$ 42,704.03	$ 11,632.39
3330	60	486	79.29	191.7	$ 138,369	41%	59%	$ 57,231.36	$ 81,137.31
3331	60	302	79.29	191.7	$ 86,162	41%	59%	$ 35,637.81	$ 50,523.98
3332	60	129	79.29	191.7	$ 36,818	41%	59%	$ 15,228.63	$ 21,589.73
3333	60	541	60.28	76.7	$ 154,114	79%	21%	$ 121,121.22	$ 32,992.87
				Total	$ 7,293,510	-	-	$ 5,806,043	$ 1,487,466
				Value of Excess Capacity (Expressed As Percent)				**79.6%**	**20.4%**