

**AMENDMENT NO. 2  
TO THE  
2013 IMPACT FEE FACILITIES PLAN  
OCTOBER 2015**

**INTRODUCTION**

South Valley Sewer District (SVSD or District) retained Bowen Collins & Associates, Inc. (BC&A) to prepare the 2013 Impact Fee Facilities Plan (IFFP) dated November 20, 2013. Since that time, an amendment to the IFFP dated March 2015 was completed by BC&A to document projects that have been added or cancelled due to changes in city road construction projects, developers' requests for service and other factors. The Impact Fee Analysis (IFA) was also amended to incorporate changes from the IFFP amendment. The District has continued to receive change requests from city officials regarding city road construction projects and developers regarding development projects that impact the IFFP. The District has retained BC&A to prepare a second amendment to the IFFP to incorporate the changes that have been requested.

**CHANGES TO THE IFFP**

This amendment deletes Tables 3-1 and 4-1 of the IFFP and replaces them with the attached revised tables. All other components of the plan remain unchanged. The proposed capital projects listed in the tables have been modified as follows:

**Collection System**

- Project No. 1 – Inverted Siphon at 13800 South and Jordan River Sewer Project: Project was moved from 2016 to 2015 after the District obtained a needed right of entry permit authorizing the District to proceed with construction sooner than anticipated.
- Project No. 9 – Willow Springs Lane – Phase I (Cost to upgrade to 18”) and Phase II Between 300 East and 1120 East Project: Project has been moved beyond 10 years in the future (and correspondingly removed from the IFFP) due to a change in development plans.
- Project No. 10 – 13100 South Between 4900 West and Bangerter Highway: Project costs have been revised to reflect locating the sewer in the planned roadway rather than along the property line. The percent to 10-year growth has been revised due to a greater area that can now be served by the project (see Project 12) and additional development being constructed in the service area sooner than originally anticipated.
- Project No. 12 – Herriman Town Center Between Main Street and 4900 West (cost to upgrade to 24”): Project has been cancelled and is no longer needed because of the changes taking place in Project No. 10.
- Project No. 13 – 3600 West Between 14400 South and Mountain View Corridor (New Herriman). Project has been moved to 2016 and costs have been increased to reflect a longer sewer line extending from the Welby Jacob Canal to the Mountain View Corridor. The developer requested sewer service further south than originally planned. The percent to 10-year growth also changed because more growth in the service area is anticipated within the next 10 years than originally planned due to market conditions.
- Project No. 18a – Camp Williams Outfall – Phase IIa – 15800 South and Jordan Narrows Road: Project has been moved beyond 10 years in the future due to delayed development plans.

- Project No. 21 – Butterfield Creek Outfall – Phase IIA Between 6000 West and 7200 West: The project has been divided into Project 21a and Project 21b. Project 21a has been moved to 2017 and revised to reflect the portion of sewer construction west of 6400 West. Project 21b has been moved beyond 10 years in the future and revised to reflect the portion of sewer construction in 6000 West. The change was initiated by a developer requesting sewer service for a residential development west of 7300 West and is scheduled to be constructed in 2017. The percent to 10-year growth has been updated reflecting the development connecting to the sewer line.
- Project No. 24 – 1300 West Between 14600 South and 15100 South: The project name has been changed to read: 15000 South Between 1300 West and 1400 West due to the revised sewer location. The project cost has also been reduced based on the revised sewer location. The percent to 10-year growth increased based on accelerated development plans submitted to the District.
- Project No. 30 – 4150 West (Road “K”): Project has been moved to 2019-2023. Project schedule has been delayed by the city due to their revised road construction schedule.
- Project No. 31 – 13490 South Between Vista Station Boulevard and 200 West: New project added as a result of new development needing sewer service in the area.

### **Treatment Facilities**

- Project No. 1 – Solids Handling at JBWRF: A detailed cost estimate completed as part of a preliminary design study resulted in an increased project cost. The project schedule also changed from 2015-2016 to 2015-2018.

In preparing this amendment, the planning period (2014 – 2023) and total District growth projections in the IFFP have not been changed. Any additional growth in areas as identified above have been offset by reduced projections elsewhere such that the total projected growth remains the same. Revised project maps and cost estimates, where required, are presented in Appendix A. Project cost allocations for Project Nos. 10, 13, 21a, 24 and 31 in Revised Table 4-2 were determined by the District and are based on a flow analysis using the District’s collection system model.

### **POTENTIAL CHANGE TO IMPACT FEE**

The construction cost attributed to 10-year growth (including inflation) shown in Table 4-1 increased by \$2,936 since the first addendum to the IFFP and IFA. If the IFA were updated based on this revised IFFP, it is estimated that the collection component of the impact fee would increase by approximately \$0.15. Because the IFFP Amendment No. 2 does not change the impact fee significantly, the District has chosen to not make any changes to the impact fee at this time

### **CERTIFICATION**

The analysis contained in this amendment has been prepared based on growth and system information provided in the District’s SECAP. Based on the data and growth assumptions provided and assuming the District follows the improvement plan outlined in this report, BC&A certifies that, in accordance with Section 11-36a, 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 relevant respect with the Impact Fees Act.

**Revised Table 3-1**  
**2013 Capital Facilities Plan Summary**  
**Service Area No. 1**  
**South Valley Sewer District**

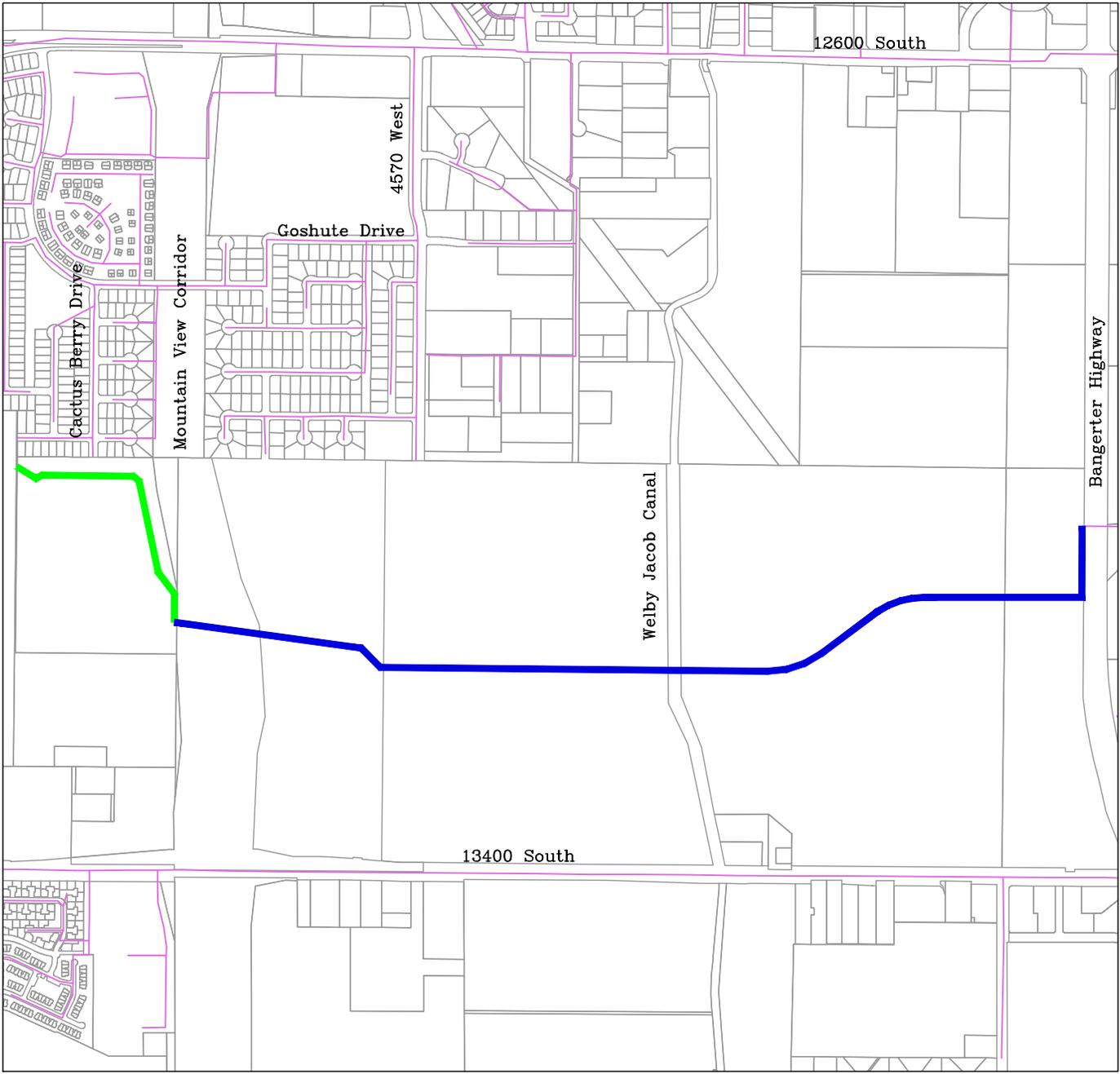
Proj No.	Project Name	2014 Actual	2015	2016	2017	2018	2019 - 2023	Future	2014 - 2023
<b>COLLECTION SYSTEM</b>									<b>Total</b>
1	Inverted Siphon at 13800 South and Jordan River Sewer Project		\$ 1,497,000						\$ 1,497,000
2	District Office and Maintenance Buildings Project		\$ 9,554,000						\$ 9,554,000
3	12200 South Between 350 West and Lone Peak Parkway (Ballard)	\$ 524,998					\$ 958,000		\$ 1,482,998
4	4000 West Between Deer Orchard Dr. and Welby Jacob Canal	\$ 155,404							\$ 155,404
5	5000 West Between 11800 South and Mountain View Corridor	\$ 897,983							\$ 897,983
6	Camp Williams Outfall - Phase I Between Redwood Road and Packsaddle Drive	\$ 1,018,271							\$ 1,018,271
7	4800 West Between 9860 South and 10200 South - PROJECT CANCELLED								\$ -
8	13400 South Sewer Improvements Between 1130 West and 1500 West	\$ 1,377,904							\$ 1,377,904
9	Willow Springs Lane - Phase I (Cost to upgrade to 18") and Phase II Between 300 East and 1120 East							\$ 4,337,000	\$ -
10	13100 South Between 4900 West and Bangarter Highway			\$ 3,765,000					\$ 3,765,000
11	10000 South Between State Street and Centennial Parkway		\$ 772,000						\$ 772,000
12	Herriman Town Center Between Main Street and 4900 West (Cost to upgrade to 24") - PROJECT CANCELLED								\$ -
13	3600 West Between 14400 South and Mountain View Corridor (New Herriman)			\$ 3,126,000					\$ 3,126,000
14	4500 West Between 13400 South and 13800 South						\$ 1,052,000		\$ 1,052,000
15	Green Clover Road Between 12800 South and Corner Canyon Creek						\$ 1,804,000		\$ 1,804,000
16	6600 West Between 14100 South and 14800 South						\$ 1,358,000		\$ 1,358,000
17	Herriman Parkway - Phase III Between 6000 West and 7200 West			\$ 1,895,000			\$ 1,789,000		\$ 3,684,000
18a	Camp Williams Outfall - Phase IIA - 15800 South and Jordan Narrows Road							\$ 836,000	\$ -
18b	Camp Williams Outfall - Phase IIB - 15800 South and Jordan Narrows Road							\$ 2,317,000	\$ -
19	11800 South Between 2700 West and 7200 West							\$ 18,591,000	\$ -
20	Minuteman Drive Between 25 West and Point of the Mountain							\$ 5,079,000	\$ -
21a	Butterfield Creek Outfall - Between 6600 West and 7400 West				\$ 1,866,000				\$ 1,866,000
21b	Butterfield Creek Outfall - Between 12730 South and Herriman Parkway							\$ 1,243,000	\$ -
22	Midas Creek Outfall Between 6000 West and 7000 West							\$ 1,670,000	\$ -
23	13200 South Diversion to JBWRF							\$ 207,000	\$ -
24	15000 South Between 1300 West and 1400 West			\$ 1,556,000					\$ 1,556,000
25a	Jordan River Outfall Lining Project Between 9000 South and 14600 South	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 9,000,000	\$ 2,971,000	\$ 15,000,000
25b	East Outfall Lining Project Between 10000 South and 12300 South							\$ 5,138,000	\$ -
25c	West Outfall Lining Project Between 9800 South and 14400 South							\$ 10,951,000	\$ -
26	Miscellaneous Projects	\$ -	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 3,750,000		\$ 6,750,000
26a	Miscellaneous Projects - Developer Reimbursements for Upsizing or Pioneering		\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,250,000		\$ 2,250,000
27	Miscellaneous Repairs	\$ -	\$ 250,000	\$ 250,000		\$ 250,000	\$ 1,250,000		\$ 2,000,000
28	Impact Fee Facility Plan and Impact Fee Analysis Update		\$ 40,000		\$ 40,000		\$ 80,000		\$ 160,000
29	Four B Lane (lining and upsizing)	\$ 407,353							\$ 407,353
30	4150 West (Road "K")						\$ 942,000		\$ 942,000
31	13490 South Between Vista Station Boulevard and 200 West			\$ 48,000					\$ 48,000
<b>Collection System Total</b>		<b>\$ 4,382,000</b>	<b>\$ 14,613,000</b>	<b>\$ 13,140,000</b>	<b>\$ 4,406,000</b>	<b>\$ 2,750,000</b>	<b>\$ 23,233,000</b>	<b>\$ 53,340,000</b>	<b>\$ 62,524,000</b>
<b>TREATMENT FACILITIES</b>									
1	Solids Handling at JBWRF		\$ 250,000	\$ 4,280,000	\$ 4,280,000	\$ 4,281,000			\$ 13,091,000
2	JBWRF Expansion							\$ 74,000,000	
3	Miscellaneous JBWRF Projects	\$ -	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,250,000		\$ 2,250,000
<b>Treatment Facilities Total</b>			<b>\$ 500,000</b>	<b>\$ 4,530,000</b>	<b>\$ 4,530,000</b>	<b>\$ 4,531,000</b>	<b>\$ 1,250,000</b>	<b>\$ 74,000,000</b>	<b>\$ 15,341,000</b>
<b>TOTAL CAPITAL COSTS</b>		<b>\$ 4,382,000</b>	<b>\$ 15,113,000</b>	<b>\$ 17,670,000</b>	<b>\$ 8,936,000</b>	<b>\$ 7,281,000</b>	<b>\$ 24,483,000</b>	<b>\$ 127,340,000</b>	<b>\$ 77,865,000</b>

Note: Cost estimates are in 2013 dollars. Inflation is not included.

**Revised Table 4-1**  
**Impact Fee Facilities Plan – Project Costs that can be Allocated to Projected Development For FY 2014-2023**  
**Service Area No. 1**  
**South Valley Sewer District**

Proj No.	Project Name	Year of Project	Estimated Total Cost (2013 Dollars)	Construction Cost with Inflation	Percent to Existing	Percent to 10-year Growth	Percent to Growth Beyond 10 Years	Cost to Existing	Cost to 10-year Growth	Cost to Growth Beyond 10 Years
<b>COLLECTION SYSTEM</b>										
1	Inverted Siphon at 13800 South and Jordan River Sewer Project	2015	\$ 1,497,000	\$ 1,588,167	100.0%	0.0%	0.0%	\$ 1,588,167	\$ -	\$ -
2	District Office and Maintenance Buildings Project	2015	\$ 9,554,000	\$ 10,135,839	72.2%	17.6%	10.1%	\$ 7,320,328	\$ 1,788,465	\$ 1,027,046
3	12200 South Between 350 West and Lone Peak Parkway (Ballard)	2014	\$ 1,482,998	\$ 1,755,374	0.0%	60.9%	39.1%	\$ -	\$ 1,069,681	\$ 685,693
4	4000 West Between Deer Orchard Dr. and Welby Jacob Canal	2014	\$ 155,404	\$ 160,066	0.0%	67.1%	32.9%	\$ -	\$ 107,338	\$ 52,728
5	5000 West Between 11800 South and Mountain View Corridor	2014	\$ 897,983	\$ 924,922	0.0%	9.7%	90.3%	\$ -	\$ 90,037	\$ 834,886
6	Camp Williams Outfall - Phase I Between Redwood Road and Packsaddle Drive	2014	\$ 1,018,271	\$ 1,048,819	0.0%	17.2%	82.8%	\$ -	\$ 180,831	\$ 867,988
7	4800 West Between 9860 South and 10200 South - PROJECT CANCELLED							\$ -	\$ -	\$ -
8	13400 South Sewer Improvements Between 1130 West and 1500 West	2014	\$ 1,377,904	\$ 1,419,241	0.0%	100.0%	0.0%	\$ -	\$ 1,419,241	\$ -
9	Willow Springs Lane - Phase I (Cost to upgrade to 18") and Phase II Between 300 East and 1120 East	2024+	\$ -					\$ -	\$ -	\$ -
10	13100 South Between 4900 West and Bangerter Highway	2016	\$ 3,765,000	\$ 4,114,117	0.0%	50.0%	50.0%	\$ -	\$ 2,057,059	\$ 2,057,059
11	10000 South Between State Street and Centennial Parkway	2015	\$ 772,000	\$ 819,015	0.0%	57.4%	42.6%	\$ -	\$ 470,343	\$ 348,672
12	Herriman Town Center Between Main Street and 4900 West (Cost to upgrade to 24") - PROJECT CANCELLED			\$ -				\$ -	\$ -	\$ -
13	3600 West Between 14400 South and Mountain View Corridor (New Herriman)	2016	\$ 3,126,000	\$ 3,415,865	0.0%	50.0%	50.0%	\$ -	\$ 1,707,932	\$ 1,707,932
14	4500 West Between 13400 South and 13800 South	2019-2023	\$ 1,052,000	\$ 1,333,807	0.0%	46.3%	53.7%	\$ -	\$ 617,433	\$ 716,373
15	Green Clover Road Between 12800 South and Corner Canyon Creek	2019-2023	\$ 1,804,000	\$ 2,287,250	0.0%	33.1%	66.9%	\$ -	\$ 756,086	\$ 1,531,164
16	6600 West Between 14100 South and 14800 South	2019-2023	\$ 1,358,000	\$ 1,721,777	0.0%	2.2%	97.8%	\$ -	\$ 37,146	\$ 1,684,631
17	Herriman Parkway - Phase III Between 6000 West and 7200 West	2016, 2019+	\$ 3,684,000	\$ 4,278,638	0.0%	19.0%	81.0%	\$ -	\$ 814,565	\$ 3,464,073
18a	Camp Williams Outfall - Phase IIA - 15800 South and Jordan Narrows Road	2024+	\$ -		0.0%	0.0%	100.0%	\$ -	\$ -	\$ -
18b	Camp Williams Outfall - Phase IIB - 15800 South and Jordan Narrows Road	2024+	\$ -		0.0%	0.0%	100.0%	\$ -	\$ -	\$ -
19	11800 South Between 2700 West and 7200 West	2024+	\$ -		0.0%	0.0%	100.0%	\$ -	\$ -	\$ -
20	Minuteman Drive Between 25 West and Point of the Mountain	2024+	\$ -		0.0%	0.0%	100.0%	\$ -	\$ -	\$ -
21a	Butterfield Creek Outfall - Between 6600 West and 7400 West	2017	\$ 1,866,000	\$ 2,100,199	0.0%	10.0%	90.0%	\$ -	\$ 210,020	\$ 1,890,179
21b	Butterfield Creek Outfall - Between 12730 South and Herriman Parkway	2024+	\$ -		0.0%	0.0%	100.0%	\$ -	\$ -	\$ -
22	Midas Creek Outfall Between 6000 West and 7000 West	2024+	\$ -		0.0%	0.0%	100.0%	\$ -	\$ -	\$ -
23	13200 South Diversion to JBWRF	2024+	\$ -		0.0%	0.0%	100.0%	\$ -	\$ -	\$ -
24	15000 South Between 1300 West and 1400 West	2016	\$ 1,556,000	\$ 1,700,283	0.0%	100.0%	0.0%	\$ -	\$ 1,700,283	\$ -
25a	Jordan River Outfall Lining Project Between 9000 South and 14600 South	Multiple	\$ 15,000,000	\$ 18,068,509	49.8%	7.5%	42.7%	\$ 9,001,021	\$ 1,348,024	\$ 7,719,464
25b	East Outfall Lining Project Between 10000 South and 12300 South	2024+	\$ -		0.0%	0.0%	100.0%	\$ -	\$ -	\$ -
25c	West Outfall Lining Project Between 9800 South and 14400 South	2024+	\$ -		0.0%	0.0%	100.0%	\$ -	\$ -	\$ -
26	Miscellaneous Projects	Multiple	\$ 6,750,000	\$ 8,083,347	0.0%	19.3%	80.7%	\$ -	\$ 1,560,086	\$ 6,523,261
26a	Miscellaneous Projects - Developer Reimbursements for Upsizing or Pioneering	Multiple	\$ 2,250,000	\$ 2,694,449	0.0%	19.3%	80.7%	\$ -	\$ 520,029	\$ 2,174,420
27	Miscellaneous Repairs	Multiple	\$ 2,000,000	\$ 2,694,449	100.0%	0.0%	0.0%	\$ 2,694,449	\$ -	\$ -
28	Impact Fee Facility Plan and Impact Fee Analysis Update	Multiple	\$ 160,000	\$ 170,671	0.0%	100.0%	0.0%	\$ -	\$ 170,671	\$ -
29	Four B Lane (lining and upsizing)	2014	\$ 407,353	\$ 419,574	35.0%	35.0%	30.0%	\$ 146,851	\$ 146,851	\$ 125,872
30	4150 West (Road "K")	2019-2023	\$ 942,000	\$ 1,194,340	0.0%	50.0%	50.0%	\$ -	\$ 597,170	\$ 597,170
31	13490 South Between Vista Station Boulevard and 200 West	2016	\$ 48,000	\$ 52,451	0.0%	100.0%	0.0%	\$ -	\$ 52,451	\$ -
<b>Collection System Total</b>			<b>\$ 62,524,000</b>	<b>\$ 72,181,169</b>				<b>\$ 20,750,816</b>	<b>\$ 17,421,742</b>	<b>\$ 34,008,611</b>
<b>TREATMENT FACILITIES</b>										
1	Solids Handling at JBWRF	2015-2018	\$ 13,091,000	\$ 14,722,127	13.2%	37.5%	49.3%	\$ 1,943,321	\$ 5,520,798	\$ 7,258,009
2	JBWRF Expansion	2024+	\$ -		0.0%	0.0%	100.0%	\$ -	\$ -	\$ -
3	Miscellaneous JBWRF Projects	Multiple	\$ 2,250,000	\$ 2,250,000	100.0%	0.0%	0.0%	\$ 2,250,000	\$ -	\$ -
<b>Treatment Facilities Total</b>			<b>\$ 15,341,000</b>	<b>\$ 16,972,127</b>				<b>\$ 4,193,321</b>	<b>\$ 5,520,798</b>	<b>\$ 7,258,009</b>
<b>TOTAL CAPITAL COSTS</b>			<b>\$ 77,865,000</b>	<b>\$ 89,153,296</b>				<b>\$ 24,944,137</b>	<b>\$ 22,942,539</b>	<b>\$ 41,266,620</b>

# Appendix A



Project No. 10: 13100 South Between 4900 West  
and Bangerter Highway

SCALE: 1"=1000'

Legend

-  Existing Sewer
-  Proposed Sewer Improvements (Engineering & Construction by South Valley Sewer District)
-  Proposed Upsizing Sewer Improvements (Engineering & Construction by Developer)

South Valley Sewer District  
September 25, 2015



# Preliminary Cost Estimate



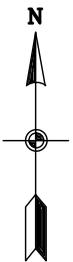
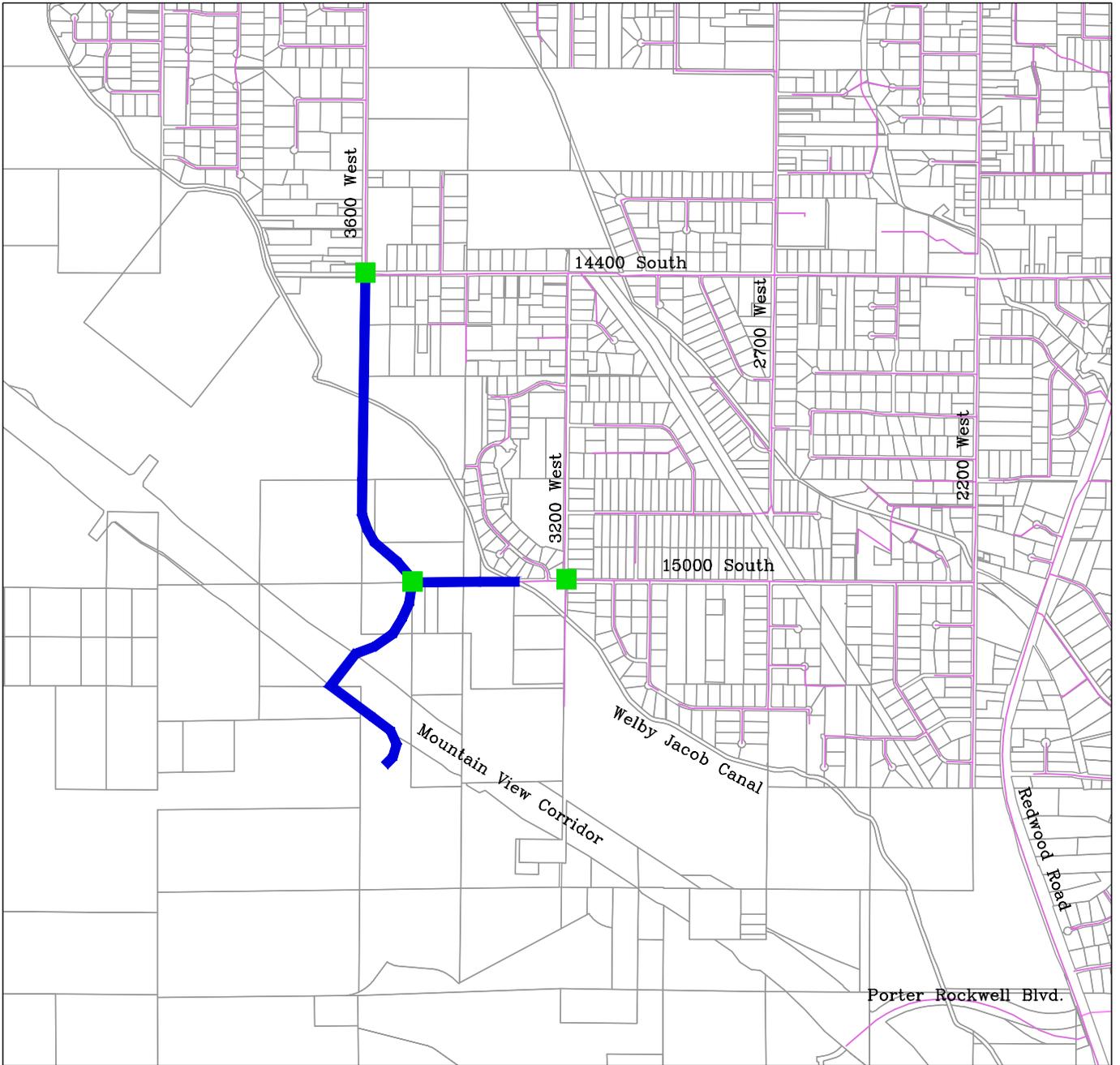
Project No. 10: 13100 South Between 4900 West  
and Bangerter Highway

Date: 9/25/15

Prepared by: BP & SM

Owner: South Valley Sewer District

No.	Item	Quantity	Units	Unit Cost	Cost
1	Engineering and Construction by South Valley Sewer District				
2	24-inch sewer, complete (12' to 20' deep)	6,480	lf	\$ 225	\$ 1,458,000
3	6-foot standard concrete sewer manhole, complete	24	ea	\$ 7,450	\$ 178,800
4	Welby Jacob Canal crossing (Owner-furnished 36-inch polycrrete casing, open cut)	100	lf	\$ 800	\$ 80,000
5	Kerns River Gas crossing (Owner-furnished 24-inch polycrrete pipe, open cut)	92	lf	\$ 615	\$ 56,580
6	Mountain View Corridor crossing (48-inch steel casing, trenchless construction)	550	lf	\$ 1,800	\$ 990,000
7	Connect to existing sewer manhole	1	ea	\$ 2,000	\$ 2,000
8	Unimproved surface restoration	32,000	sy	\$ 4	\$ 128,000
9					
10					
11	Subtotal				\$ 2,893,000
12					
13	Contingency (15%)				\$ 434,000
14					
15	Total construction cost				\$ 3,327,000
16					
17	Design eng/surveying/const eng (11%)				\$ 366,000
18					
19	Total				\$ 3,693,000
20					
21	Engineering and Construction by Developer				
22	Net difference between 10-inch and 18-inch sewer, complete (12' to 20' deep)	1,780	lf	\$ 30	\$ 53,400
23	Net difference between 4-foot and 5-foot standard concrete sewer manholes, complete	10	ea	\$ 915	\$ 9,150
24					
25	Subtotal				\$ 63,000
26					
27	Contingency (15%)				\$ 9,000
28					
29	Total				\$ 72,000
30					
31	<b>Combined Total Project Cost</b>				<b>\$ 3,765,000</b>
32					



Project No. 13: 3600 West Between 14400 South  
and Mountain View Corridor

SCALE: 1"=2000'

Legend

-  Existing Sewer
-  Proposed Sewer Improvements
-  Proposed Diversion Structure

South Valley Sewer District  
July 20, 2015



# Preliminary Cost Estimate



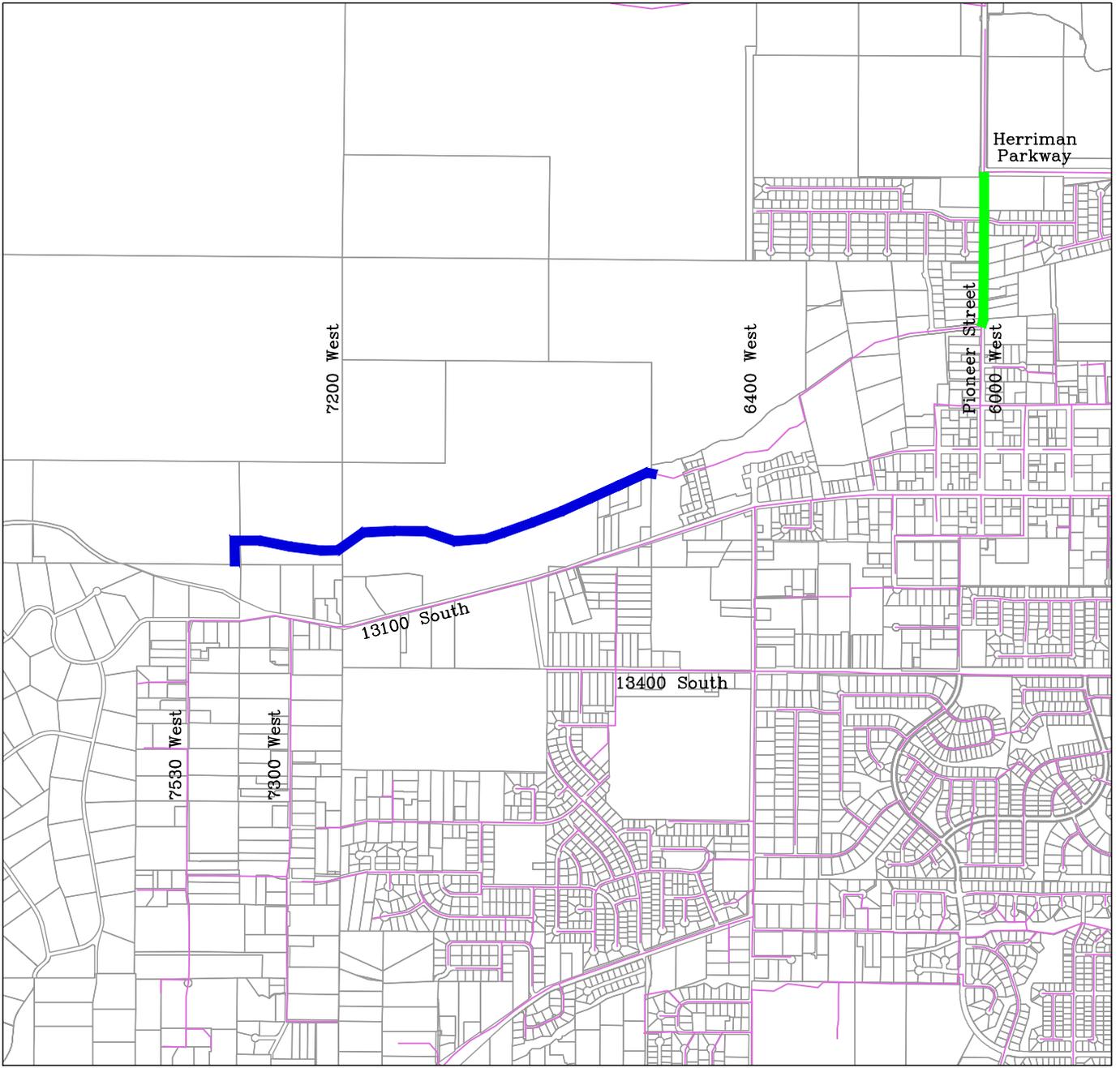
Project No. 13: 3600 West Between 14400 South  
and Mountain View Corridor

Date: 7/20/15

Prepared by: SM

Owner: South Valley Sewer District

No.	Item	Quantity	Units	Unit Cost	Cost
1	12-inch sewer, complete (13' to 18' deep)	5,605	lf	\$ 165	\$ 924,825
2	15-inch sewer, complete (13' to 18' deep)	3,170	lf	\$ 175	\$ 554,750
3	4-foot standard concrete sewer manhole, complete	35	ea	\$ 4,600	\$ 161,000
4	8' dia polymer diversion structure	3	ea	\$ 90,000	\$ 270,000
5	Welby Jacob Canal North Crossing (30-inch steel casing, open cut)	70	lf	\$ 810	\$ 56,700
6	Welby Jacob Canal West Crossing (30-inch steel casing, open cut)	125	lf	\$ 810	\$ 101,250
7	Mountain View Corridor (24-inch steel casing, trenchless construction)	530	lf	\$ 900	\$ 477,000
8	Asphalt restoration	100	sy	\$ 51	\$ 5,100
9	Unimproved surface restoration	39,500	sy	\$ 4	\$ 158,000
10	Gravel road restoration	1,200	sy	\$ 8	\$ 9,600
11					
12					
13					
14	Subtotal				\$ 2,718,000
15					
16	Contingency (15%)				\$ 408,000
17					
18	Total construction cost				\$ 3,126,000
19					
20					
21					
22	<b>Total Project Cost</b>				<b>\$ 3,126,000</b>
23					
24					



Project No.: 21a - Butterfield Creek Outfall Between  
6600 West and 7400 West

21b - Butterfield Creek Outfall Between  
12730 South and Herriman Parkway

SCALE: 1"=2000'

**Legend**

-  Existing Sewer
-  21a Proposed Sewer Improvements
-  21b Proposed Sewer Improvements

South Valley Sewer District  
September 25, 2015



# Preliminary Cost Estimate



Project No. 21a: Butterfield Creek Outfall

Date: 9/25/15

Between 6600 West and 7400 West

Prepared by: BP & SM

Owner: South Valley Sewer District

No.	Item	Quantity	Units	Unit Cost	Cost
1	15-inch sewer, complete (15' to 20' deep)	6,100	lf	\$ 206	\$ 1,256,600
2	5-foot standard sewer manhole, complete	17	ea	\$ 5,514	\$ 93,738
3	Field restoration	33,889	sy	\$ 8	\$ 271,111
4	Connect to existing sewer manhole	1	ea	\$ 2,000	\$ 2,000
5					
6					
7					
8					
9					
10					
11	Subtotal				\$ 1,623,000
12					
13	Contingency (15%)				\$ 243,000
14					
15	Total construction cost				\$ 1,866,000
16					
17					
18					
19					
20					
21	<b>Total Project Cost</b>				<b>\$ 1,866,000</b>
22					
23					
24					
25					
26					
27					

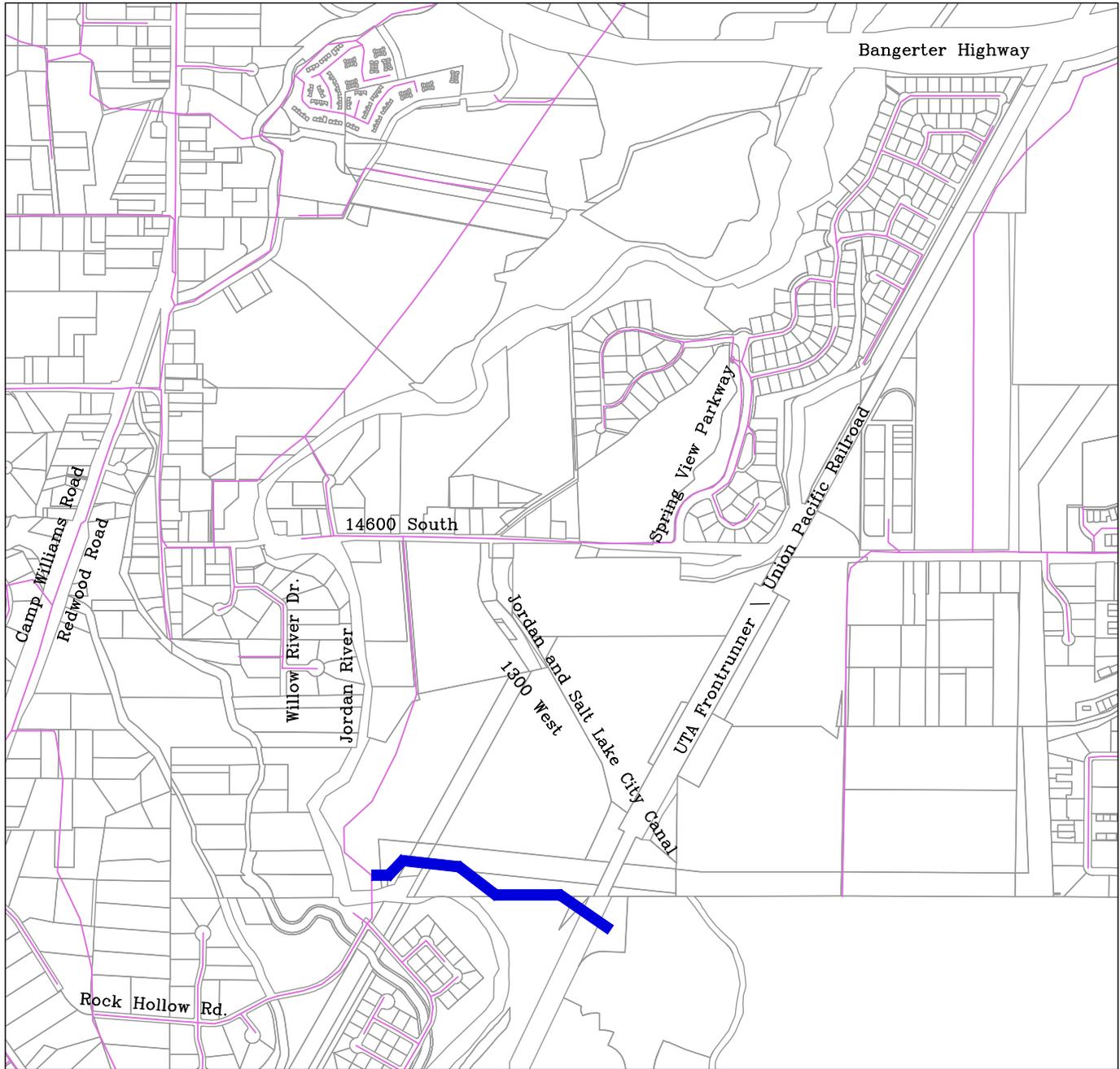
# Preliminary Cost Estimate



Project No. 21b: Butterfield Creek Outfall Between  
 12730 South and Herriman Parkway  
 Owner: South Valley Sewer District

Date: 9/25/15  
 Prepared by: BP & SM

No.	Item	Quantity	Units	Unit Cost	Cost
1	15-inch sewer, complete (15' to 20' deep)	2,300	lf	\$ 226	\$ 519,800
2	5-foot standard sewer manhole, complete	8	ea	\$ 6,229	\$ 47,756
3	Asphalt restoration	5,671	sy	\$ 51	\$ 289,227
4	1-inch asphalt overlay	10,311	sy	\$ 11	\$ 113,422
5	Connect to existing sewer manhole	2	ea	\$ 2,000	\$ 4,000
6					
7					
8					
9					
10					
11					
12	Subtotal				\$ 974,000
13					
14	Contingency (15%)				\$ 146,000
15					
16	Total construction cost				\$ 1,120,000
17					
18					
19					
20	Design eng/surveying/const eng (11%)				\$ 123,000
21					
22	<b>Total Project Cost</b>				<b>\$ 1,243,000</b>
23					
24					
25					
26					
27					
28					



Project No. 24: 15000 South Between 1300 West  
and 1400 West

SCALE: 1"=2000'

Legend

- Existing Sewer
- Proposed Sewer Improvements

# Preliminary Cost Estimate



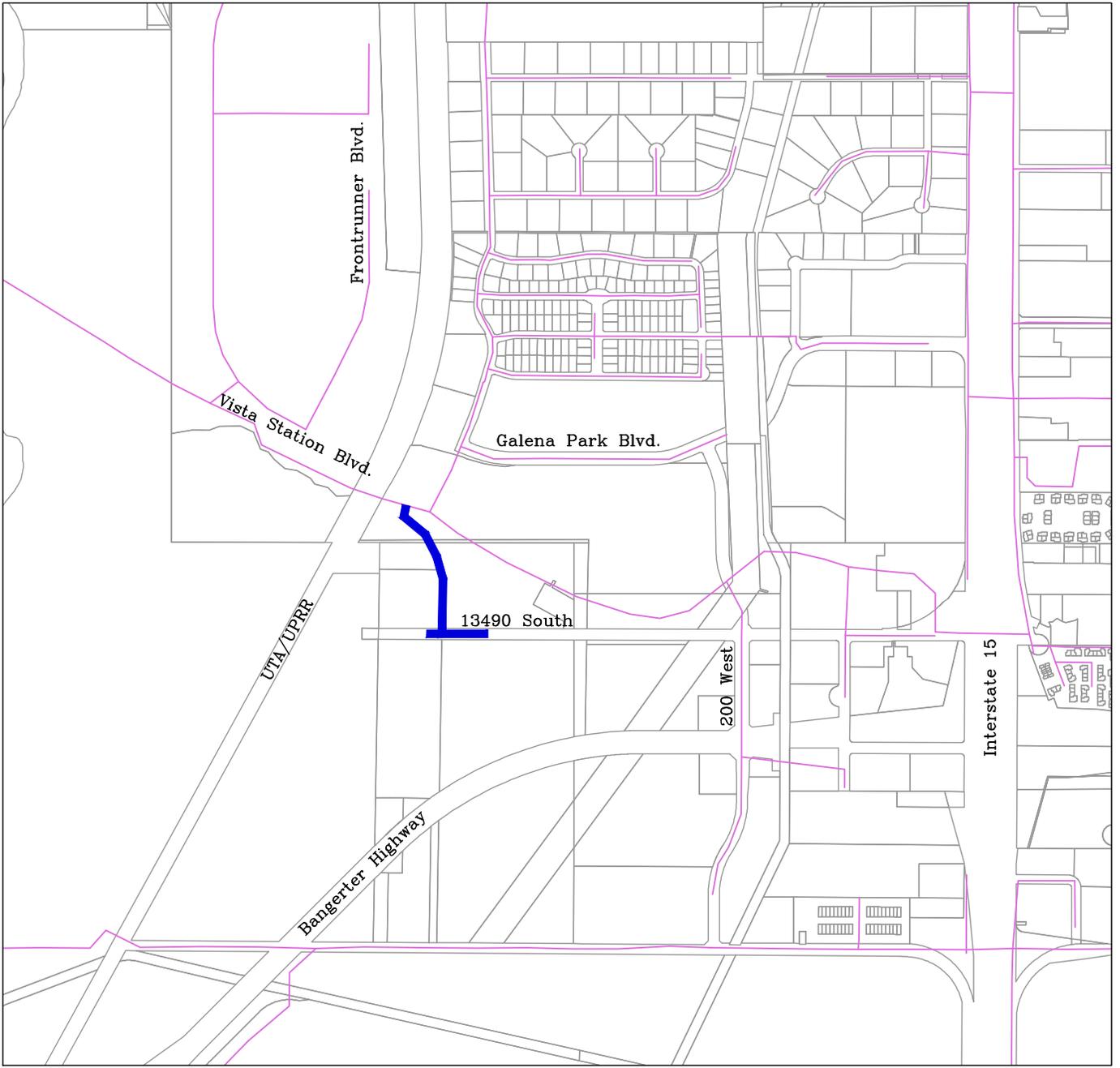
Project No. 24: 15000 S. Between 1300 W. and 1400 W.

Date: 9/16/15

Prepared by: SM

Owner: South Valley Sewer District

No.	Item	Quantity	Units	Unit Cost	Cost
1	18-inch sewer, complete (9' to 19' deep)	2,050	lf	\$ 217	\$ 444,850
2	5-foot standard sewer manhole, complete	6	ea	\$ 5,514	\$ 33,084
3	Jordan and Salt Lake City Canal / UTA crossing (36-inch steel casing, trenchless construction), complete	382	lf	\$ 1,300	\$ 496,600
4	JVWCD water line crossing (36-inch steel casing, open cut), complete	40	lf	\$ 1,100	\$ 44,000
5	Jordan River Trail restoration (10' wide)	300	sy	\$ 47	\$ 14,100
6	Unimproved surface restoration	9,486	sy	\$ 4	\$ 37,944
7	Permanent ingress and egress roadway, complete	1,150	lf	\$ 35	\$ 40,250
8					
9					
10					
11	Subtotal				\$ 1,111,000
12					
13	Contingency (15%)				\$ 167,000
14					
15	Total construction cost				\$ 1,278,000
16					
17	Easements (20' for permanent)	0.95	ac	\$ 125,000	\$ 118,974
18					
19	Easements (30' for temporary)	1.40	ac	\$ 12,500	\$ 17,450
20					
21	Design eng/surveying/const eng (11%)				\$ 141,000
22					
23	<b>Total Project Cost</b>				<b>\$ 1,556,000</b>
24					
25					
26					
27					
28					



Project No. 31: 13490 South Between Vista Station  
Boulevard and 200 West

SCALE: 1"=1000'

Legend

- Existing Sewer
- Proposed Sewer Improvements

# Preliminary Cost Estimate



Project No. 31: 13490 South Sewer Between Vista

Date: 9/25/15

Station Boulevard and 200 West

Prepared by: SM

Owner: South Valley Sewer District

No.	Item	Quantity	Units	Unit Cost	Cost
1	Net difference between 8-inch and 10-inch sewer, complete (18' to 23' deep)	1,320	lf	\$ 25	\$ 33,000
2	Corner Canyon Creek Crossing (net difference between 16-inch and 20-inch steel casing, trenchless construction)	60	lf	\$ 150	\$ 9,000
3					
4					
5					
6					
7					
8					
9					
10	Subtotal				\$ 42,000
11					
12	Contingency (15%)				\$ 6,000
13					
14	Total construction cost				\$ 48,000
15					
16					
17					
18	<b>Total Project Cost</b>				<b>\$ 48,000</b>
19					
20					