VOLUME 3 - APPENDICES

SOUTHWEST CANAL AND CREEK STUDY

SECTION 3 - CANALS, BINGHAM CREEK, BARNEYS CREEK, BEEF HOLLOW, WOOD HOLLOW, AND WOOD HOLLOW SOUTH

Prepared for:

SALT LAKE COUNTY

July 2022

Prepared by:

BOWEN COLLINS & ASSOCIATES

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APPENDIX A

Wood Hollow Memo

BOWEN COLLINS & ASSOCIATES

TECHNICAL MEMORANDUM

TO:	Tamaran Woodland, P.E. Salt Lake County Engineering Flood Control Division 2001 South State Street, N3100 Salt Lake City, Utah 84114
COPIES:	File
FROM:	Tucker Jorgensen, Kameron Ballentine and Craig Bagley Bowen Collins & Associates 154 East 14075 South Draper, Utah 84020
DATE:	02-29-2021
SUBJECT:	Wood Hollow and Wood Hollow South Drainage Alternative Study
JOB NO.:	022-18-02

SECTION 1
INTRODUCTION

Salt Lake County (SLCo) retained Bowen Collins and Associates (BC&A) to complete a study on the Wood Hollow and Wood Hollow South drainages located at the south end of Salt Lake County. There is currently development pressure adjacent to these two drainage channels and Herriman City and Bluffdale City are working with SLCo to determine the most efficient means to manage the additional storm water runoff generated by development activities. Various alternatives to manage storm water runoff in this area were analyzed as part of this study.

This study included performing site visits, collecting survey data, developing hydrologic models, developing a hydraulic model based on the collected survey data, and using peak flows from the hydrologic model to identify deficiencies for Wood Hollow, Wood Hollow South, Utah Lake Distribution Canal (ULDC), and Utah and Salt Lake Canal (USLC). The study also included developing cost estimates and a summary of improvements for each alternative. The purpose of this Technical Memorandum is to summarize the analysis, results, alternatives, and cost estimates associated with alternative improvements to the drainage areas.

SECTION 2
EXISTING CONDITION DRAINAGE

Figure 1 identifies the existing drainage patterns in the study area. Site visits were conducted to inspect both Wood Hollow and Wood Hollow South drainage channels to observe the current drainage patterns and channel conditions in the area. Photographs from the site visits are provided in Appendix A. In addition, survey was collected in the study drainage area to collect needed information on culverts and channel cross-sections so hydraulic models could be developed for Wood Hollow, Wood Hollow South, and both ULDC and USLC.

WOOD HOLLOW DRAINAGE

Wood Hollow receives storm water runoff from a drainage area of approximately 6 square miles. Approximately 75-percent of the drainage area is currently undeveloped and is unlikely to develop because it is federal land occupied by Camp Williams, a Utah National Guard training facility. The existing developed area is concentrated east (downstream) of Redwood Road. The storm water conveyed by Wood Hollow is discharged into the Jordan River with no hydraulic connections to either the ULDC or USLC. Wood Hollow is mostly open channel for the upstream portion of the drainage basin, except for two culverts that cross an access road and Mountain View Corridor, as can be seen in Figure 1. After Wood Hollow crosses Redwood Road, a significant reach of the channel has been enclosed in a piped storm drain system with pipe sizes ranging in diameters between 30 and 48 inches. That storm drain trunk line conveys runoff down Iron Horse Blvd to an Overflow Pond at approximately 1700 West and 15450 South before discharging to the Jordan River.

WOOD HOLLOW SOUTH DRAINAGE

Wood Hollow South receives storm water runoff from a drainage area of approximately 1.3 square miles. The Wood Hollow South drainage area is currently mostly undeveloped. The only major development is a commercial property on Porter Rockwell Blvd west of the Welby Jacob Canal. Over 80-percent of the drainage area is unlikely to be developed in the future because it is on federal land occupied by Camp Williams. Storm water runoff is conveyed through an open channel and four culvert crossings at Welby Jacob Canal, Redwood Road, a pedestrian trail, and the ULDC, and then discharges into USLC as shown on Figure 1. There is no hydraulic connection to the ULDC because the invert of the Wood Hollow South culvert under the canal is approximately 25 feet below the ULDC invert. The section of the Wood Hollow South channel downstream of USLC has been inactive for many years.

ULDC AND USLC

The Jordan River is the topographic low point to which much of the Salt Lake Valley naturally drains. When the ULDC and USLC were constructed parallel to the Jordan River in the late 1800s, the canals began intercepting storm water runoff from areas that had historically drained to the Jordan River. The areas that drain to these canals in the study area are shown in Figure 1. Storm water runoff collected by both ULDC and USLC is currently conveyed to overflow/dump out structures at Rose Creek. The ULDC has a drainage area of 1.8 square miles upstream of Wood Hollow. The USLC upstream of Wood Hollow receives runoff from

a drainage area of 1.6 square miles, including storm water conveyed by the Wood Hollow South channel.

As shown on Figure 1, most of the runoff from land between Redwood Road and the USLC discharges to the canals. Little development currently exists in the drainage basins that discharge to ULDC and USLC upstream of Wood Hollow. However, recent development has been occurring and has resulted in multiple new culverts being constructed on both ULDC and USLC associated with road crossings. Continued development is expected as there is still significant development pressure in the area between the Jordan River and Redwood Road. One of the primary purposes of this study is to determine how storm water runoff from the land that currently drains to these canals will be managed in the future as these areas develop.

SECTION 3
HYDROLOGIC ANALYSIS & HYDRAULIC ANALYSIS

This study is part of Phase 3 of the SWCCS Study. For detailed information regarding the methodology and development of the hydrologic and hydraulic models, refer to the 2020 South West Canal and Creek (SWCC) report. A brief summary of the hydrologic and hydraulic study methodology is provided below.

HYDROLOGIC ANALYSIS

All hydrologic models were developed using Autodesk Storm and Sanitary Analysis 2020 (ASSA) software. ASSA uses a HEC-1 hydrologic engine with a loss method of SCS Curve Number. The model required the following input parameters:

- Subbasin Area (ac)
- Pervious SCS Curve Number
- Impervious area (%)
- Lag time or Time of Concentration

A modified Farmer-Fletcher 100-year, 3-hour rainfall event was used as the design storm with a storm depth of 1.84-inches. Subbasin boundaries were delineated based on 2013-2014 LiDAR data and aerial photographs from the Utah Automated Geographic Reference Center (AGRC) and verified based upon site visits and as-built drawings. Other parameters were estimated using a combination of data from the NRCS Soil Survey Geographic (SSURGO) dataset, City/County general plans, survey from pipes and culverts, and existing storm drain databases from Bluffdale and Herriman City.

As part of the hydrologic analysis, it was assumed that all storm water runoff would be conveyed to the appropriate conveyance system (e.g., Wood Hollow, Wood Hollow South, or a canal). This is a conservative assumption and is consistent with the 2020 SWCC Study.

HYDRAULIC ANALYSIS

Hydraulic computer models for all open channels in the study area were developed using the United States Army Corps of Engineers' HEC-RAS Version 5.0.7 software. Survey data was used to define channel cross-sections and topographic data for the overbanks was developed using 2013-2014 LiDAR data for the area. Culverts were included in the hydraulic models based on field survey data. The piped section of Wood Hollow along Iron Horse Blvd was modeled in ASSA to simulate flow conditions during the design storm event. The pipe data sizes and slopes in the model were based on survey data collected for this study.

WHAT IS A DEFICIENCY

The deficiencies are broken into three categories, open channel on either Wood Hollow or Wood Hollow South, open channel on either ULDC or USLC, and pipes/culverts.

Wood Hollow and Wood Hollow South Open Channel Deficiency

An open channel capacity deficiency on Wood Hollow and Wood Hollow South was identified when the hydraulic model predicted channel overtopping while routing runoff from the design storm. Channel improvements were then identified to mitigate the capacity deficiencies. Due to a relative steep channel slope (>4%), channel reaches with 0-2 feet of predicted freeboard were also identified to show potential capacity deficiencies, but no capital improvement projects were evaluated unless the channels overtopped during the 100-year design event.

Canal Open Channel Deficiency

Similarly, for the canals, an open channel capacity deficiency was identified when the hydraulic model predicted channel overtopping. Potential capital improvements that can resolve identified capacity deficiencies were then evaluated. With relatively flat channel slopes (0.05-0.3%) for both canals, areas with 0-1 feet of predicted freeboard were identified to show potential capacity deficiencies.

Pipe/Culvert Deficiency

A pipe/culvert was considered to be capacity deficient if the design storm discharge was shown by the model to back up to the point of either bubbling up out of a manhole or overtopping channel banks. Surcharged pipes that do not result in water bubbling out were identified.

SECTION 4
ANALYSIS RESULTS

HYDROLOGY RESULTS

Peak flows associated with the 100-year design storm for the existing conditions at each of the structures are shown in Table 1. Peak flows were estimated using the developed hydrologic models. Irrigation flows were added to the model for the canals based upon conversations with the canal irrigation flow masters. These flows were used to identify channel and structure capacity deficiencies.

Table 1
Summary of Estimated Peak Discharge Rates for Existing Development Conditions

Pipe/Culvert ID	Existing Peak 100-year Discharge (cfs)
WH-1	130
WH-2	130
WH-3	130
WH-4	130
WH-5	110
WH-6	110
WH-7	110
WH-8	100
WHS-1	N/A
WHS-2	N/A
WHS-3	25
WHS-4	25
WHS-5	23
WHS-6	23
WHS-7	23
ULDC-33 [1]	90
ULDC-34 [1]	90
ULDC-35 [1]	90
USLC-82 [1]	190
USLC-83 [1]	195
USLC-85 [1]	180

[1] Flow includes irrigation flow, 50 cfs for ULDC and 170 cfs for USLC

HYDRAULIC CAPACITY ESTIMATES

The hydraulic capacity of each pipe and culvert in the study area were estimated using the developed hydraulic models. Model estimated capacities were compared to independent calculations for verification. The estimated pipe and culvert capacities are presented in Table 2.

Section 3: Canals and Misc. Creeks

Table 2
Summary of Existing Pipe and Culvert Capacity

Drainage Facility	Pipe/Culvert ID (see Figure 2)	Existing Size	Model Estimated Capacity (cfs)
Wood Hollow	WH-1	60" RCP	165
Wood Hollow	WH-2	48" RCP	235[1]
Wood Hollow	WH-3	42" to 48" RCP	155-235[1]
Wood Hollow	WH-4	30" to 42" RCP	85-120[1]
Wood Hollow	WH-5	48" RCP	140
Wood Hollow	WH-6	39" CMP	70
Wood Hollow	WH-7	48" RCP	280
Wood Hollow	WH-8	48"	420
Wood Hollow South	WHS-3	10'X6' Arch	1100
Wood Hollow South	WHS-4	4' CMP	170
Wood Hollow South	WHS-5	27'X11' Box	3980
Wood Hollow South	WHS-6	2' CMP	55
Wood Hollow South	WHS-7	2' CMP	30
ULDC	ULDC-33	5' RCP	200
ULDC	ULDC-34	14'X6' Box	165
ULDC	ULDC-35	12'X6' Box	200
USLC	USLC-82	20'X7' Box	750
USLC	USLC-83	45' Footbridge	Not a Restriction
USLC	USLC-85	48' Footbridge	Not a Restriction

[1]Backwater controlled

EXISTING CONDITIONS RESULTS AND IMPROVEMENTS

Information on Figure 2 identifies the open channel freeboard and culvert/pipe capacity deficiencies on Wood Hollow, Wood Hollow South, ULDC, and USLC for the 100-yr design storm peak discharge rates associated with existing development conditions. Capital improvement projects that will resolve existing capacity deficiencies are shown in Figure 3. As can be seen from Figure 3, Wood Hollow South, ULDC, and USLC would have adequate capacity to convey storm water. The only required improvements to resolve existing deficiencies are to upsize two sections of pipe as shown on Figure 3.

FUTURE ALTERNATIVES ANALYSIS

An analysis was also performed to estimate the 100-year peak discharge in the existing drainage facilities for projected fully developed land use conditions in the study area. Previously there has not been a detailed analysis performed regarding how to manage storm water from future development in the study area. Increasing storm water runoff in the area will only compound the existing deficiencies. At the request of SLCo three alternatives were analyzed to identify the impacts of projected future development on the 2 canals as well as potential methods to redirect storm water to the Jordan River. The alternatives are identified below:

- Alternative 1 – Discharge storm water intercepted by ULDC and USLC into Wood Hollow by constructing overflow/dumpout structures. Storm water from the area between the Jordan River and Redwood Road would then be routed to the Jordan River via Wood Hollow. Storm water in the Wood Hollow South drainage would continue to be routed to ULSC. Peak discharge rates for future development would be detained to 0.2 cfs/acre.
- Alternative 2 – Discharge storm water intercepted by ULDC and USLC into Wood Hollow South by constructing overflow/dumpout structures. Storm water flow would then be routed to the Jordan River via Wood Hollow South. Wood Hollow would continue to convey storm water runoff to the Jordan River. Peak discharge rates for future development would be detained to 0.2 cfs/acre.
- Alternative 3 – No changes would be made to the drainage patterns in the study area, but runoff would be detained to a peak discharge rate of 0.02 cfs/acre. As such, all storm water intercepted by ULDC and USLC would continue to be conveyed to the Jordan River via overflow/dumpout structures at Rose Creek. Future development that discharges to Wood Hollow South, USLC, or ULDC would be required to detain runoff to a peak rate of 0.02 cfs/ac according to recommendations from the 2020 SWCC study. Discharge to Wood Hollow would continue to be limited to a peak rate of 0.2 cfs/ac.

The alternatives analysis included updating the hydrologic ASSA model and HEC-RAS model to simulate projected full build-out conditions in the study area. A description of each alternative, the analysis, results, improvements, and cost estimate are included in the sections below.

ALTERNATIVE 1

Alternative 1 consists of discharging runoff from future development into the ULDC and USLC and then constructing storm water overflow/dump out structures on both the ULDC and the USLC that would discharge that storm water into Wood Hollow. For this alternative it is assumed that any future development will detain the storm water runoff to a peak discharge rate of 0.2 cfs/acre for the 100-year design storm. Storm water runoff generated in the study area would no longer be conveyed in the ULDC and USLC to Rose Creek, but instead the runoff would be conveyed in the canals and then discharged into Wood Hollow which would then convey it to the Jordan River. No changes would be made to the drainage patterns of Wood Hollow South in this alternative. A hydrologic model was developed to estimate the peak 100-year discharge for this alternative. Table 3 summarizes the model results.

Table 3
Summary of Estimated Peak 100-Year Discharges for all Analyzed Scenarios

Pipe/Culvert ID	Estimated Capacity (cfs)	Existing Peak Flow (cfs)	Alternative 1 Peak Flow (cfs)	Alternative 2 Peak Flow (cfs)	Alternative 3 Peak Flow (cfs)
WH-1	165	130	340	150	150
WH-2	235[1]	130	360	160	160
WH-3	155-235[1]	130	270	160	160
WH-4	85-120[1]	130	160	160	160
WH-5	140	110	140	140	140
WH-6	70	110	140	140	140
WH-7	280	110	130	130	130
WH-8	420	100	130	130	130
WHS-1	N/A	N/A	N/A	230	N/A
WHS-2	N/A	N/A	N/A	200	N/A
WHS-3	1100	25	80	190	35
WHS-4	170	25	80	80	35
WHS-5	3980	23	80	80	35
WHS-6	55	23	50	50	30
WHS-7	30	23	40	40	30
ULDC-33	200	90	50	70	80
ULDC-34	165	90	140	50	70
ULDC-35	200	90	140	50	70
USLC-82	750	190	260	175	200
USLC-83	Not a Restriction	195	255	170	200
USLC-85	Not a Restriction	180	190	190	180

Table 3 shows that for Alternative 1, many of the pipes and culverts on Wood Hollow have insufficient capacity to convey the 100-year peak discharge. For Wood Hollow South only culvert WHS-7 has inadequate capacity. These deficiencies, as well as any channel deficiencies for Alternative 1 are identified on Figure 4. Figure 5 shows the improvement projects that are needed to manage runoff associated with projected full build-out conditions.

Alternative 1 would require improvements to approximately 5,100 total feet of the Wood Hollow pipe along Iron Horse Blvd. This includes 2,600 feet of 48-inich RCP, 700 feet of 54-inch RCP and 1,800 feet of 60-inch RCP. In addition, the existing culvert that crosses the Welby Jacob Canal at Wood Hollow would need to be replaced with 66-inch RCP. The outlet pipe from the detention basin at 1700 West and 15450 South would need to be replaced with a larger pipe as shown on Figure 5. The ULDC would also need to be improved as shown on Figure 5. An improved inlet on Wood Hollow South at the Welby Jacob Canal culvert crossing would need to be constructed to increase capacity. For this alternative, the USLC would not have any capacity deficiencies within the study area. It is estimated that it will cost approximately $4.0 million in 2021 dollars to construct improvements associated with this alternative. Detailed cost estimates are provided in Appendix B.

ALTERNATIVE 2

Alternative 2 consists of discharging runoff from projected full build-out development conditions into the ULDC and USLC and then constructing storm water overflow/dump out structures on both the ULDC and the USLC to discharge into Wood Hollow South. In addition, Wood Hollow South would need to be re-established to the Jordan River by constructing culverts under both USLC and South Jordan Canal. For this alternative it was assumed that any future development would detain the storm water runoff to a peak discharge rate of 0.2 cfs/acre. This alternative would not require any improvements to the canals downstream of Wood Hollow South or Wood Hollow. The estimated peak 100-year discharges at key locations for this alternative are summarized in Table 3.

As seen in Table 3, Alternative 2 would result in pipe/culvert capacity deficiencies on Wood Hollow and Wood Hollow south. Figure 6 identifies the freeboard and structure deficiencies on Wood Hollow, Wood Hollow South, ULDC, and USLC for the design storm peak discharge associated with full build-out conditions. Improvement projects needed to resolve the identified deficiencies associated with Alternative 2 are shown in Figure 7. With this alternative, 52-ft of 39-inch CMP for the Welby Jacobs Crossing of Wood Hollow would be replaced with 66-inch RCP, 2,600-ft of 30- to 42-inch pipe would be replaced with 48-inch RCP. A manhole at approximately 1850 West on Iron Horse Blvd would need to be bolted down or otherwise secured to keep storm water from flowing out of the surcharged system. Wood Hollow South would require a new inlet to the Welby Jacob Canal culvert crossing. ULDC and USLC would not have any improvement projects for this alternative. It is estimated that it will cost $2.7 million in 2021 dollars to construct this alternative. Detailed cost estimates are provided in Appendix B.

ALTERNATIVE 3

Alternative 3 represents the potential future build-out conditions if nothing is done to change the existing drainage patterns within the study area. As a result, Alternative 3 would not consist of constructing any storm water dump out structures on either the ULDC or the USLC. Based on the recommendations in Phase 1 of the SWCCS, any storm water discharges to Rose Creek would need to be detained to a significantly lower peak discharge rate of 0.02 cfs/acre. Therefore, discharges from future development into Wood Hollow South, ULDC, or USLC would need to detain to a peak discharge rate of 0.02 cfs/acre. The 0.02 cfs/acre includes the runoff from all public streets. Future development that discharges into Wood Hollow would be allowed to continue to discharge at a rate of 0.2 cfs/acre. The peak 100-year discharges are shown in Table 3.

Table 3 shows that only Wood Hollow would have capacity deficient facilities with this alternative. Figure 8 identifies the freeboard and culvert/pipe deficiencies on Wood Hollow, Wood Hollow South, ULDC, and USLC for the design storm peak discharge rates associated with full build-out conditions. Figure 9 shows the improvement projects needed to resolve the capacity deficiencies associated with this alternative. With this alternative the improvements in the study area would include replacing the existing Wood Hollow culvert that crosses the Welby Jacob Canal with 66-inch RCP, replacing and to replace 2,600 feet of

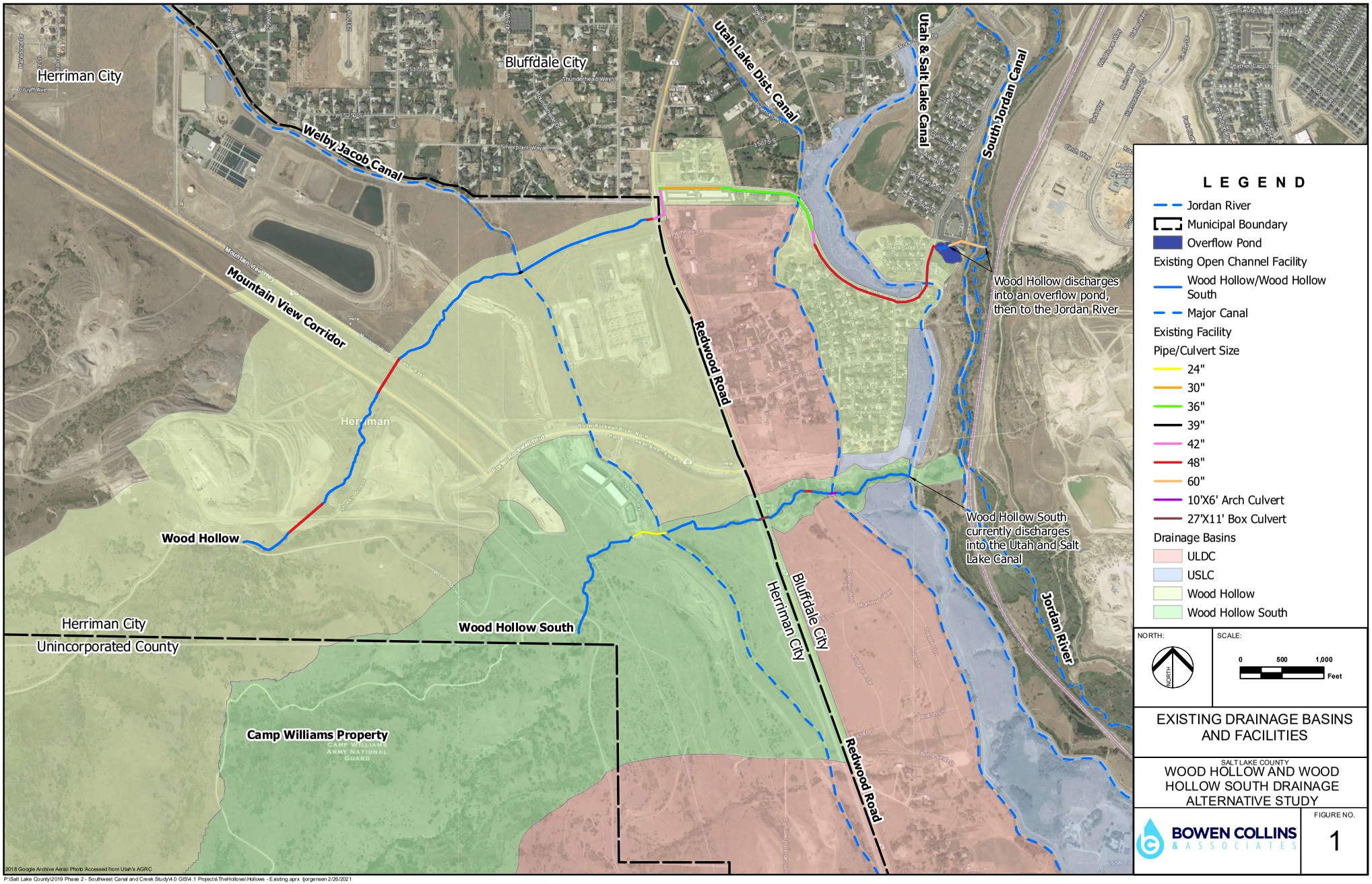
pipe along Iron Horse Blvd with 48-inch RCP as shown in Figure 9. In addition, a manhole at approximately 1850 West Iron Horse Blvd would need to either be bolted down or otherwise restrained. It is estimated that it will cost approximately $1.5 million in 2021 dollars to construct this alternative. Detailed cost estimates are provided in Appendix B.

IMPROVEMENT COST SUMMARY

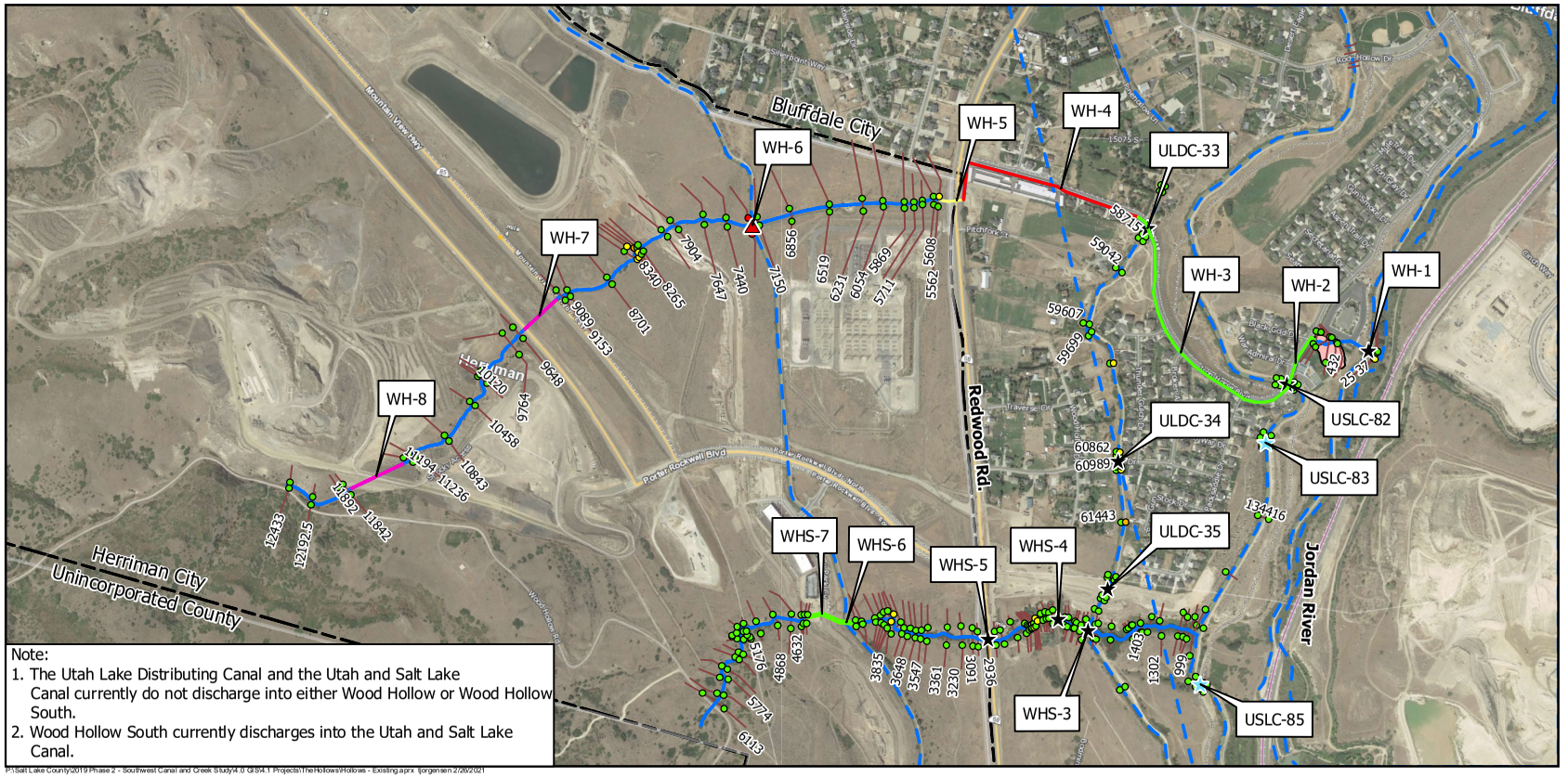
Table 3 presents the summary of the estimated costs to construct improvements needed to resolve capacity deficiencies associated with each of the 3 alternatives. The project IDs in Table 3 correspond to the project IDs on Figures 3, 5, 7, & 9. Detailed cost estimate data is included in Appendix B.

Table 3
Project Improvement Costs

Alternative	Estimated Total Improvement Cost
Alternative 1	$3,949,000
Alternative 2	$2,710,000
Alternative 3	$1,480,000



Section 3: Canals and Misc. Creeks



Note:
1. The Utah Lake Distributing Canal and the Utah and Salt Lake Canal currently do not discharge into either Wood Hollow or Wood Hollow South.
2. Wood Hollow South currently discharges into the Utah and Salt Lake Canal.

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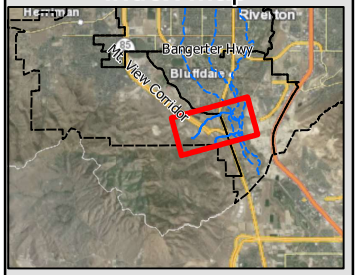
Summary of Existing Culvert and Pipe Characteristics

ID	Culvert or Bridge Location	Estimated 100-yr Discharge for Existing Conditions (cfs)	Estimated Culvert Capacity (cfs)	Existing Culvert Size (Diameter)	Notes
WH-1	Pipe from overflow pond to Jordan River	130	200	36" RCP	
WH-2	Pipe from USLC to Overflow Pond	130	235	48" RCP	Reach length of 520 ft and slope from 1.5% to 4.6%
WH-3	Pipe from ULDC to USLC	130	155 - 235	42" to 48" RCP	Reach length of 2,310 ft and slope from 1.0% to 10.0%
WH-4	Pipe from Redwood Road to ULDC	130	85 - 120	30" to 42" RCP	Reach length of 1,970 ft and slope from 1.0% to 4.2% (entire reach is undersized)
WH-5	Pipe under Redwood Road	110	140	48" RCP	Pipe capacity is adequate once downstream pipes are upsized
WH-6	Welby Jacob Canal	110	70	39" CMP	Culvert is undersized, causing overtopping into canal
WH-7	Mountain View Corridor	110	280	48" RCP	
WH-8	Gravel Pit Road	100	420	48" RCP	
WHS-1	South Jordan Canal	0	--	--	Does not currently exisit
WHS-2	Utah & Salt Lake Canal	25	--	--	Does not currently exisit
WHS-3	Utah Lake Distribution Canal	25	1100	10' x 6' Arch	
WHS-4	Trail	25	170	4' CMP	
WHS-5	Redwood Road	23	3980	27' x 11' Box	
WHS-6	Pipe under Welby Jacob Canal	23	55	2' CMP	Pipe Reach Length is Approximently 125 ft with Slope of 4.9%
WHS-7	Pipe from Start to Welby Jacob Canal	23	30	2' CMP	Pipe Reach Length is Approximently 300 ft with slope of 8.8%
ULDC-33	Ironhorse Blvd	90	190	5' RCP	
ULDC-34	15730 S	90	160	14' X 6'	
ULDC-35	Porter Rockwell Blvd	90	200	12' X 6'	
USLC-82	Iron Horse Blvd	190	800	20'X7' Box	
USLC-83	Trail Bridge #2	195	Not a Restriction	45' Footbridge	
USLC-85	Trail Bridge #3	180	Not a Restriction	48' Footbridge	

Index Map



LEGEND

- Existing Culvert Capacity Deficiency
- Existing Culvert
- Existing Bridge
- Wood Hollow or Wood Hollow South
- Major Canal/Jordan River

Wood Hollow & Wood Hollow South Freeboard for Existing 100-yr Design Storm
- Bank Overtopping
- 0 - 1 feet
- 1 - 2 feet
- 2+ feet

ULDC & USLC Freeboard for Existing 100-yr Design Storm
- Bank Overtopping
- 0 - 6 Inches
- 6 - 12 Inches
- 12+ Inches

Existing Pipe Capacity
- Deficient
- Surcharged with no Flooding
- Adequate Capacity
- 1302 HEC-RAS Cross Section With Station ID
- Culvert
- Overflow Pond
- Municipal Boundary

NORTH:

SCALE: 0 500 1,000 Feet

EXISTING CONDITIONS
CAPACITY DEFICIENCIES SUMMARY

SALT LAKE COUNTY
WOOD HOLLOW AND WOOD HOLLOW SOUTH DRAINAGE ALTERNATIVE STUDY

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FIGURE NO. 2

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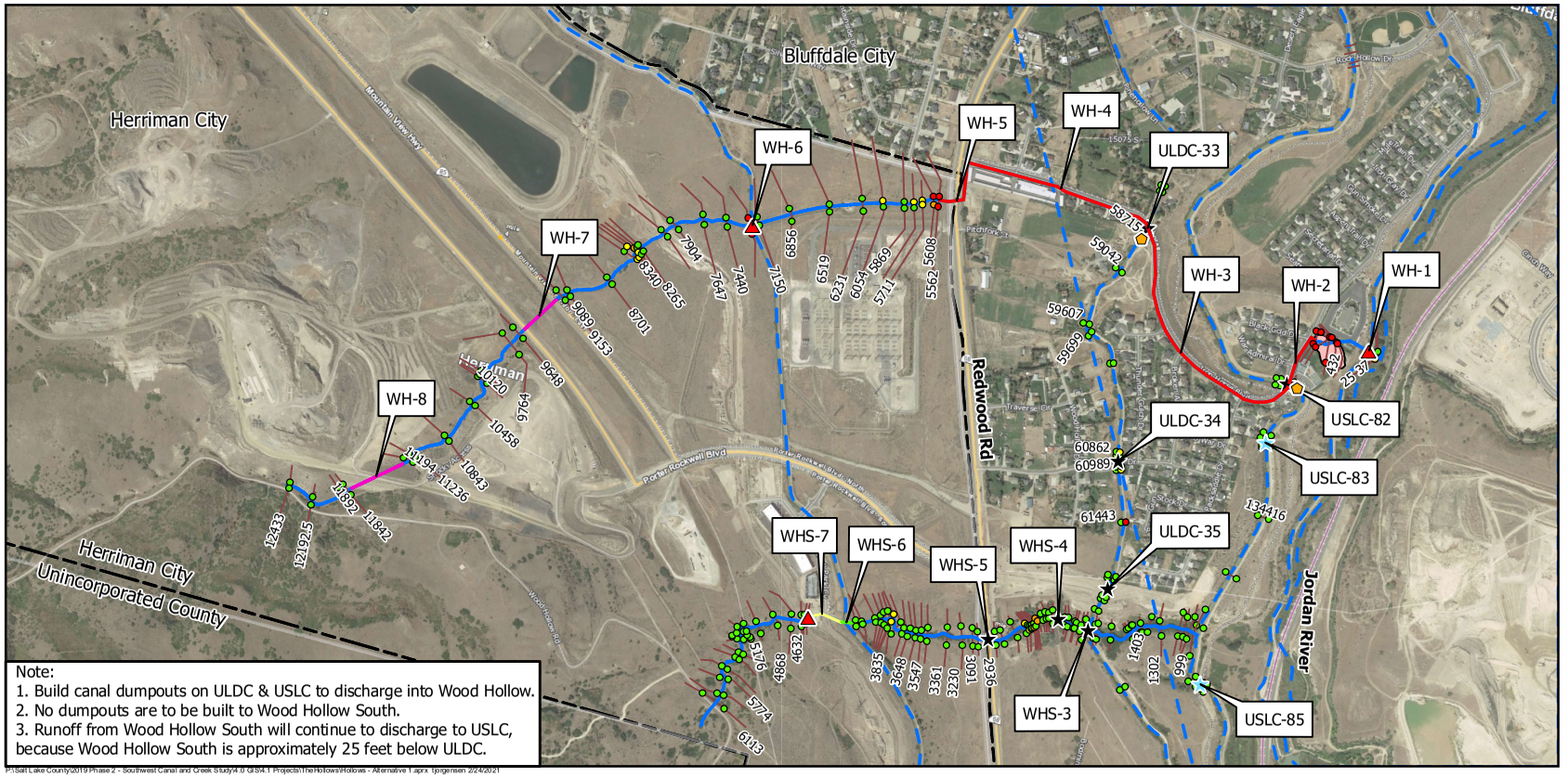

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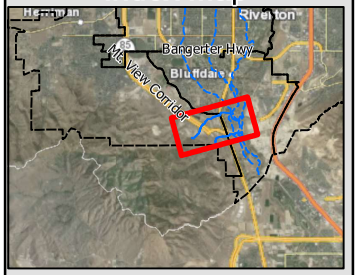
Summary of Existing Culvert and Pipe Characteristics

ID	Culvert or Bridge Location	Estimated 100-yr Discharge for Existing Conditions (cfs)	Estimated 100-yr Discharge for Future Conditions for Alternative 1 (cfs)	Estimated Culvert Capacity (cfs)	Existing Culvert Size (Diameter)	Notes
WH-1	Pipe from overflow pond to Jordan River	130	340	200	36" RCP	Outlet System is undersized, causing DB to overtop and flow into South Jordan Canal
WH-2	Pipe from USLC to Overflow Pond	130	360	235	48" RCP	Pipes are Undersized
WH-3	Pipe from ULDC to USLC	130	270	155 - 235	42" to 48" RCP	Pipes are Undersized
WH-4	Pipe from Redwood Road to ULDC	130	160	85 - 120	30" to 42" RCP	Pipes are Undersized
WH-5	Pipe under Redwood Road	110	140	140	48" RCP	Culvert is Downstream Controlled, Backwater Casues Deficiency and Bank Overtopping
WH-6	Welby Jacob Canal	110	140	70	39" CMP	Culvert is undersized, causing overtopping into canal
WH-7	Mountain View Corridor	110	130	280	48" RCP	
WH-8	Gravel Pit Road	100	130	420	48" RCP	
WHS-1	South Jordan Canal	0	0	--	--	Not required for this alternative
WHS-2	Utah & Salt Lake Canal	25	80	--	--	Not required for this alternative
WHS-3	Utah Lake Distribution Canal	25	80	1100	10' x 6' Arch	
WHS-4	Trail	25	80	170	4' CMP	
WHS-5	Redwood Road	23	80	3980	27' x 11' Box	
WHS-6	Pipe under Welby Jacob Canal	23	50	55	2' CMP	Pipe is surcharging, water may bubble-up out of the manhole and cause local nusaince flooding
WHS-7	Pipe from Start to Welby Jacob Canal	23	40	30	2' CMP	Culvert Inlet is undersized, causing overtopping of dirt roadway
ULDC-33	Ironhorse Blvd	90	50	190	5' RCP	
ULDC-34	15730 S	90	140	160	14' X 6'	
ULDC-35	Porter Rockwell Blvd	90	140	200	12' X 6'	
USLC-82	Iron Horse Blvd	190	260	800	20'X7' Box	
USLC-83	Trail Bridge #2	195	255	Not a Restriction	45' Footbridge	
USLC-85	Trail Bridge #3	180	190	Not a Restriction	48' Footbridge	

Index Map



LEGEND

- Proposed Canal Dumpout
- Culvert Deficiency
- Existing Culvert
- Existing Bridge
- Wood Hollow or Wood Hollow South
- Major Canal/Jordan River

Wood Hollow & Wood Hollow South Freeboard for Future 100-yr Design Storm

- Bank Overtopping
- 0 - 1 feet
- 1 - 2 feet
- 2+ feet

ULDC & USLC Freeboard for Future 100-yr Design Storm

- Bank Overtopping
- 0 - 6 Inches
- 6 - 12 Inches
- 12+ Inches

Future Pipe Capacity

- Deficient
- Surcharged with No Flooding
- Adequate Capacity
- #### HEC-RAS Cross Section With Station
- Culvert
- Overflow Pond
- Municipal Boundary

NORTH:

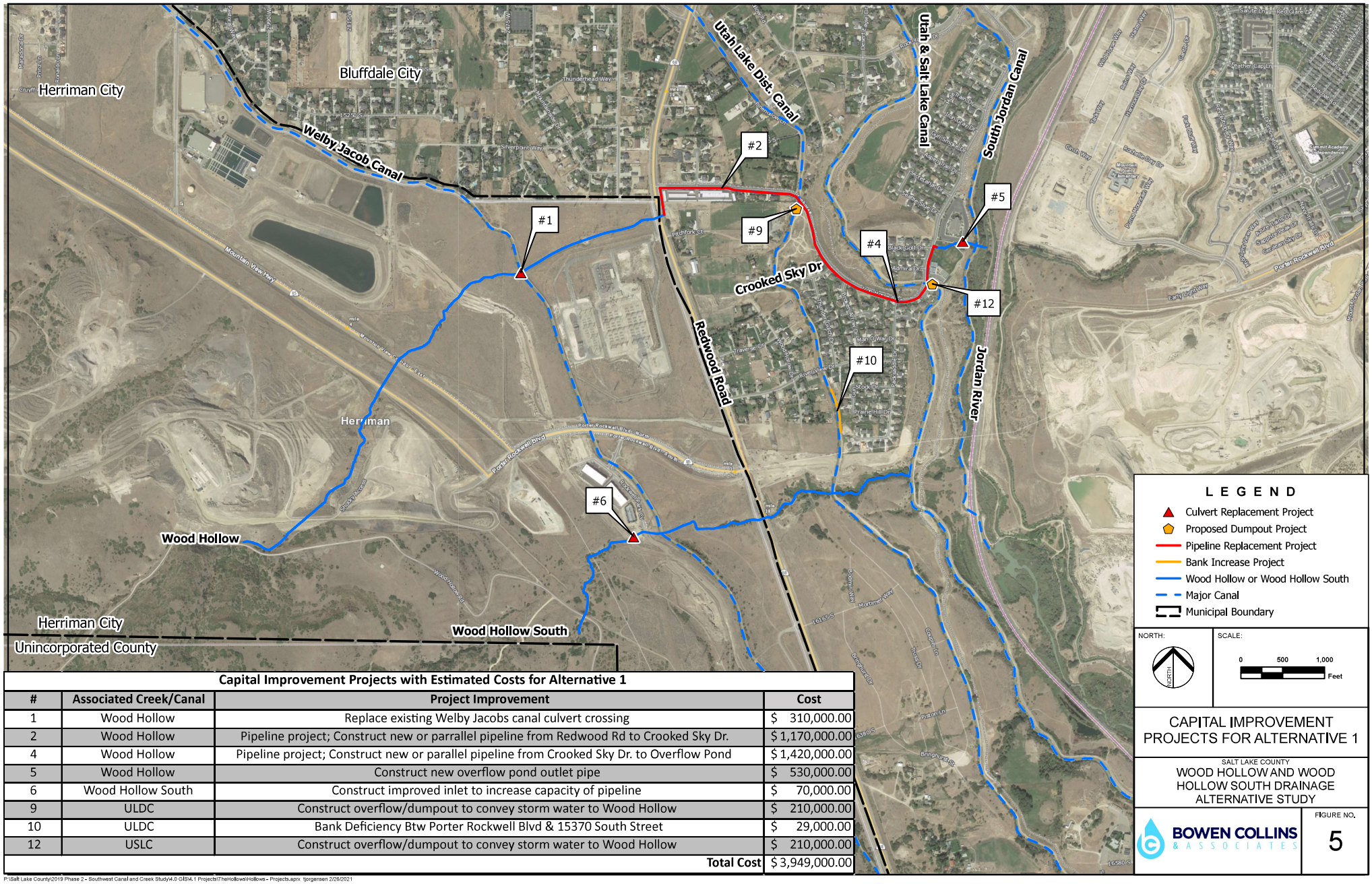
SCALE: 0 500 1,000 Feet

ALTERNATIVE 1 SUMMARY OF FREEBOARD AND CULVERT/PIPE DEFICIENCIES ASSOCIATED WITH FULL BUILD-OUT CONDITIONS

SALT LAKE COUNTY
WOOD HOLLOW AND WOOD HOLLOW SOUTH DRAINAGE ALTERNATIVE STUDY

BOWEN COLLINS & ASSOCIATES

FIGURE NO. 4



Capital Improvement Projects with Estimated Costs for Alternative 1

#	Associated Creek/Canal	Project Improvement	Cost
1	Wood Hollow	Replace existing Welby Jacobs canal culvert crossing	$ 310,000.00
2	Wood Hollow	Pipeline project; Construct new or parrallel pipeline from Redwood Rd to Crooked Sky Dr.	$ 1,170,000.00
4	Wood Hollow	Pipeline project; Construct new or parallel pipeline from Crooked Sky Dr. to Overflow Pond	$ 1,420,000.00
5	Wood Hollow	Construct new overflow pond outlet pipe	$ 530,000.00
6	Wood Hollow South	Construct improved inlet to increase capacity of pipeline	$ 70,000.00
9	ULDC	Construct overflow/dumpout to convey storm water to Wood Hollow	$ 210,000.00
10	ULDC	Bank Deficiency Btw Porter Rockwell Blvd & 15370 South Street	$ 29,000.00
12	USLC	Construct overflow/dumpout to convey storm water to Wood Hollow	$ 210,000.00
		Total Cost	$ 3,949,000.00

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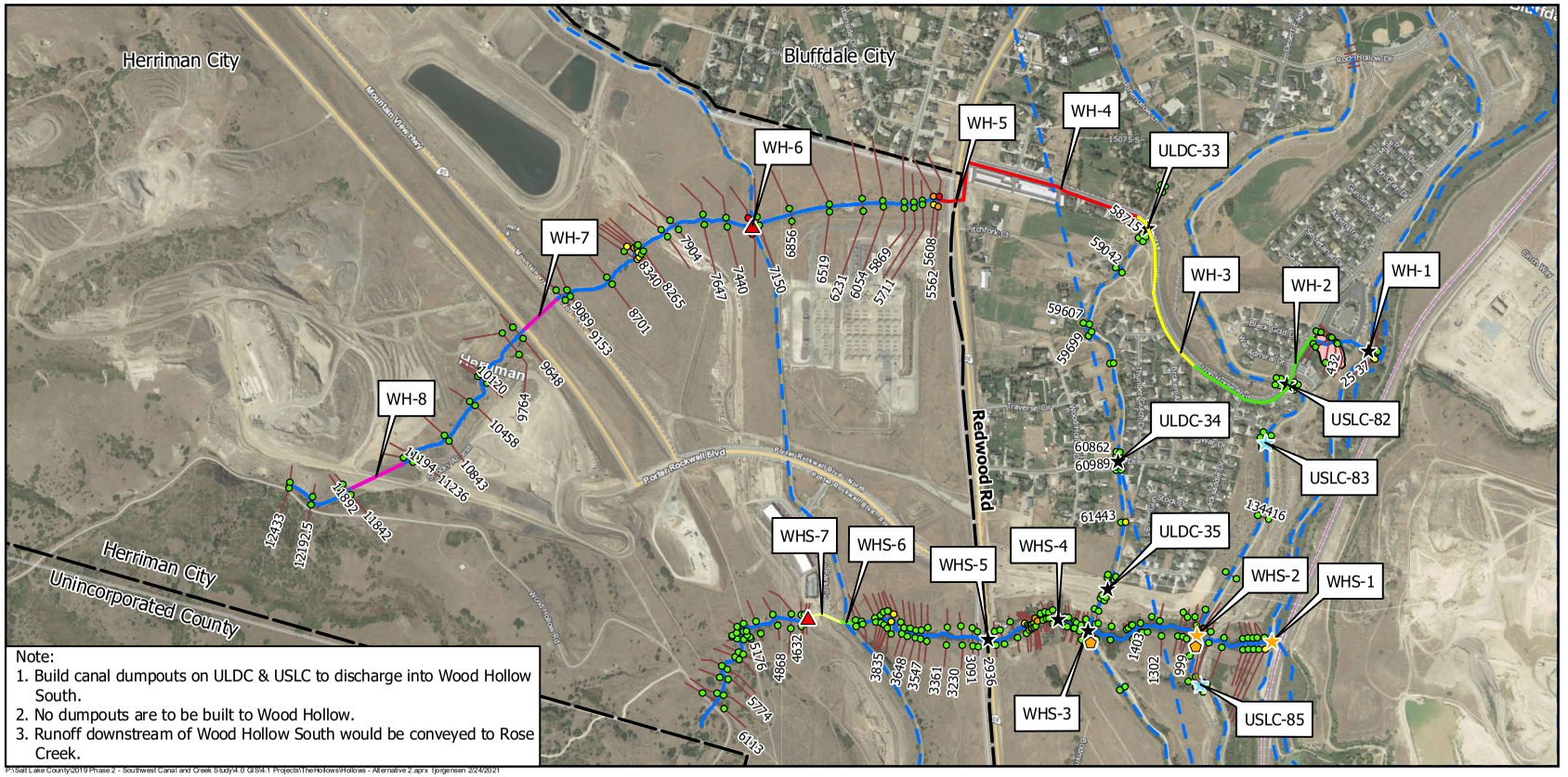

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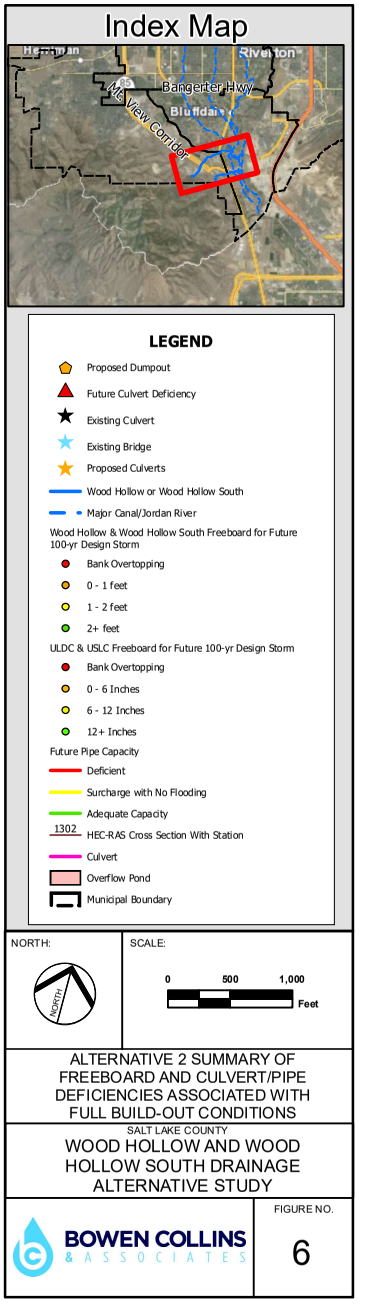


Summary of Existing Culvert and Pipe Characteristics

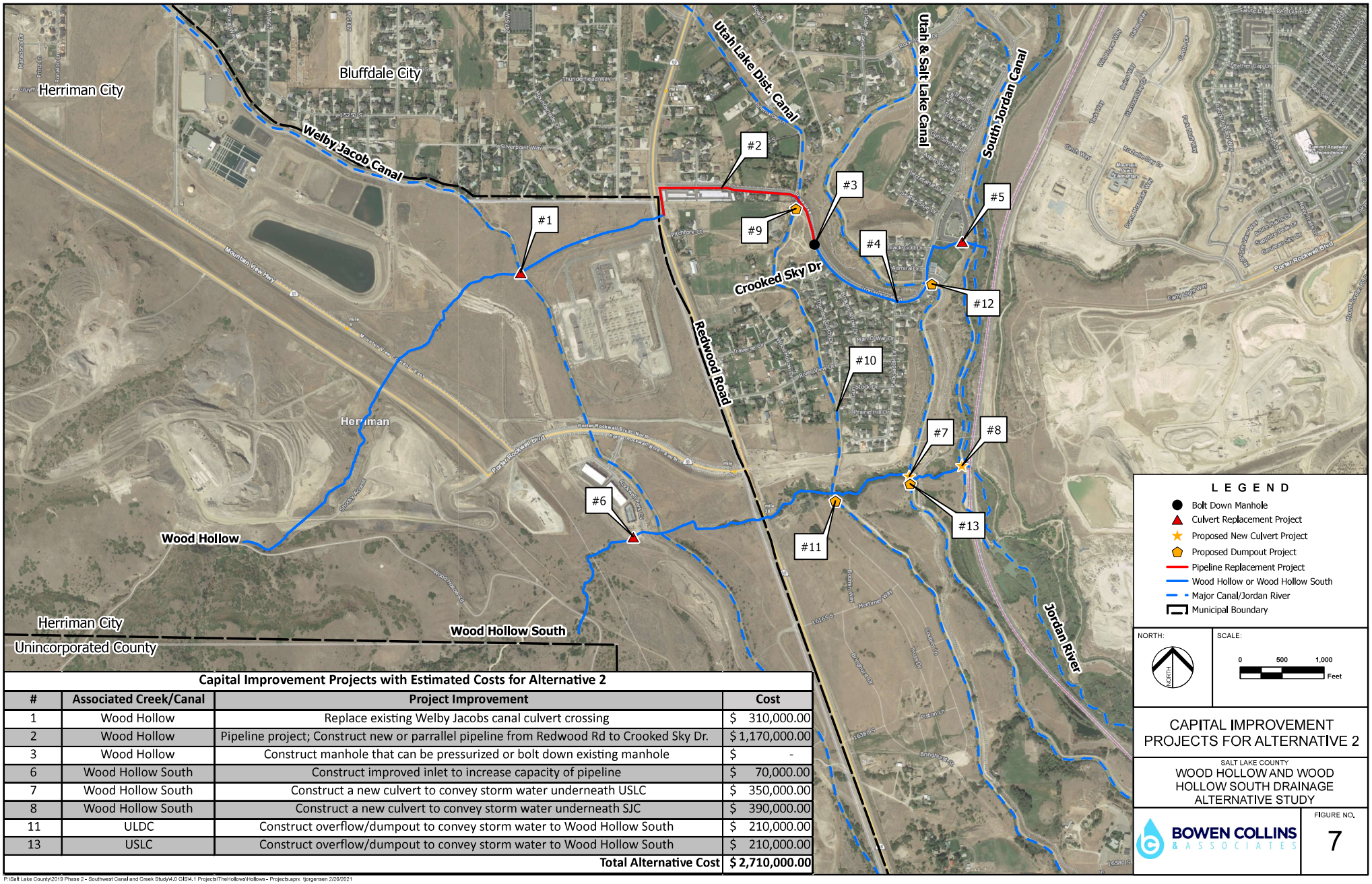
ID	Culvert or Bridge Location	Estimated 100-yr Discharge for Existing Conditions (cfs)	Estimated 100-yr Discharge for Future Conditions for Alternative 2 (cfs)	Estimated Culvert Capacity (cfs)	Existing Culvert Size (Diameter)	Notes
WH-1	Pipe from overflow pond to Jordan River	130	150	200	36" RCP	
WH-2	Pipe from USLC to Overflow Pond	130	160	235	48" RCP	
WH-3	Pipe from ULDC to USLC	130	160	155 - 235	42" to 48" RCP	1,400 feet of Reach is Surcharged
WH-4	Pipe from Redwood Road to ULDC	130	160	85 - 120	30" to 42" RCP	Entire Reach is Undersized
WH-5	Pipe under Redwood Road	110	140	140	48" RCP	
WH-6	Welby Jacob Canal	110	140	70	39" CMP	Culvert is undersized, causing overtopping into canals
WH-7	Mountain View Corridor	110	130	280	48" RCP	
WH-8	Gravel Pit Road	100	130	420	48" RCP	
WHS-1	South Jordan Canal	0	230	--	--	Proposed 72" Culvert with 300 cfs Capacity
WHS-2	Utah & Salt Lake Canal	25	200	--	--	Proposed 72" Culvert with 300 cfs Capacity
WHS-3	Utah Lake Distribution Canal	25	190	1100	10' x 6' Arch	
WHS-4	Trail	25	80	170	4' CMP	
WHS-5	Redwood Road	23	80	3980	27' x 11' Box	
WHS-6	Pipe under Welby Jacob Canal	23	50	55	2' CMP	Pipe is surcharging, water may bubble-up out of the manhole and cause local nusaince flooding
WHS-7	Pipe from Start to Welby Jacob Canal	23	40	30	2' CMP	Culvert is undersized, causing overtopping of dirt roadway
ULDC-33	Ironhorse Blvd	90	70	190	5' RCP	
ULDC-34	15730 S	90	50	160	14' X 6'	
ULDC-35	Porter Rockwell Blvd	90	50	200	12' X 6'	
USLC-82	Iron Horse Blvd	190	175	800	20'X7' Box	
USLC-83	Trail Bridge #2	195	170	Not a Restriction	45' Footbridge	
USLC-85	Trail Bridge #3	180	190	Not a Restriction	48' Footbridge	

ALTERNATIVE 2 SUMMARY OF FREEBOARD AND CULVERT/PIPE DEFICIENCIES ASSOCIATED WITH FULL BUILD-OUT CONDITIONS

SALT LAKE COUNTY
WOOD HOLLOW AND WOOD HOLLOW SOUTH DRAINAGE ALTERNATIVE STUDY

BOWEN COLLINS & ASSOCIATES

FIGURE NO. 6



Capital Improvement Projects with Estimated Costs for Alternative 2

#	Associated Creek/Canal	Project Improvement	Cost
1	Wood Hollow	Replace existing Welby Jacobs canal culvert crossing	$ 310,000.00
2	Wood Hollow	Pipeline project; Construct new or parrallel pipeline from Redwood Rd to Crooked Sky Dr.	$ 1,170,000.00
3	Wood Hollow	Construct manhole that can be pressurized or bolt down existing manhole	$ -
6	Wood Hollow South	Construct improved inlet to increase capacity of pipeline	$ 70,000.00
7	Wood Hollow South	Construct a new culvert to convey storm water underneath USLC	$ 350,000.00
8	Wood Hollow South	Construct a new culvert to convey storm water underneath SJC	$ 390,000.00
11	ULDC	Construct overflow/dumpout to convey storm water to Wood Hollow South	$ 210,000.00
13	USLC	Construct overflow/dumpout to convey storm water to Wood Hollow South	$ 210,000.00
		Total Alternative Cost	**$ 2,710,000.00**

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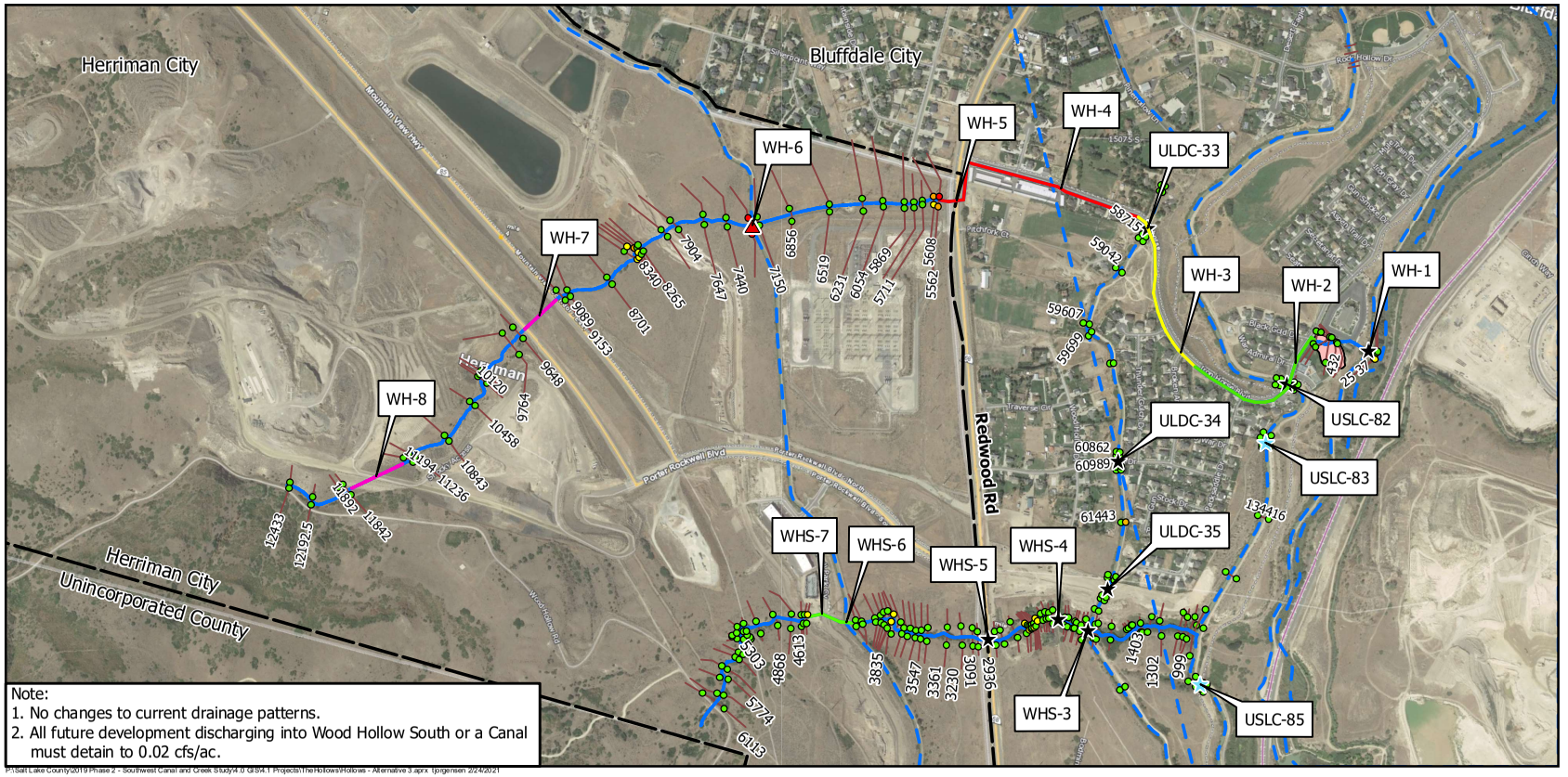
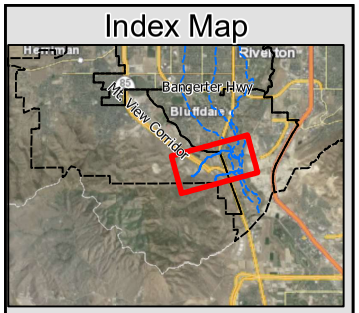




LEGEND

- Future Culvert Deficiency
- Existing Culvert
- Existing Bridge
- Wood Hollow or Wood Hollow South
- Major Canal/Jordan River

Wood Hollow & Wood Hollow South Freeboard for Future 100-yr Design Storm

- Bank Overtopping
- 0 - 1 feet
- 1 - 2 feet
- 2+ feet

ULDC & USLC Freeboard for Existing 100-yr Design Storm

- Bank Overtopping
- 0 - 6 Inches
- 6 - 12 Inches
- 12+ Inches

Future Pipe Capacity

- Deficient
- Surcharge with No Flooding
- Adequate Capacity
- 1302 HEC-RAS Cross Section With Station
- Culvert
- Overflow Pond

NORTH:

SCALE: 0 500 1,000 Feet

ALTERNATIVE 3 SUMMARY OF FREEBOARD AND CULVERT/PIPE DEFICIENCIES ASSOCIATED WITH FULL BUILD-OUT CONDITIONS

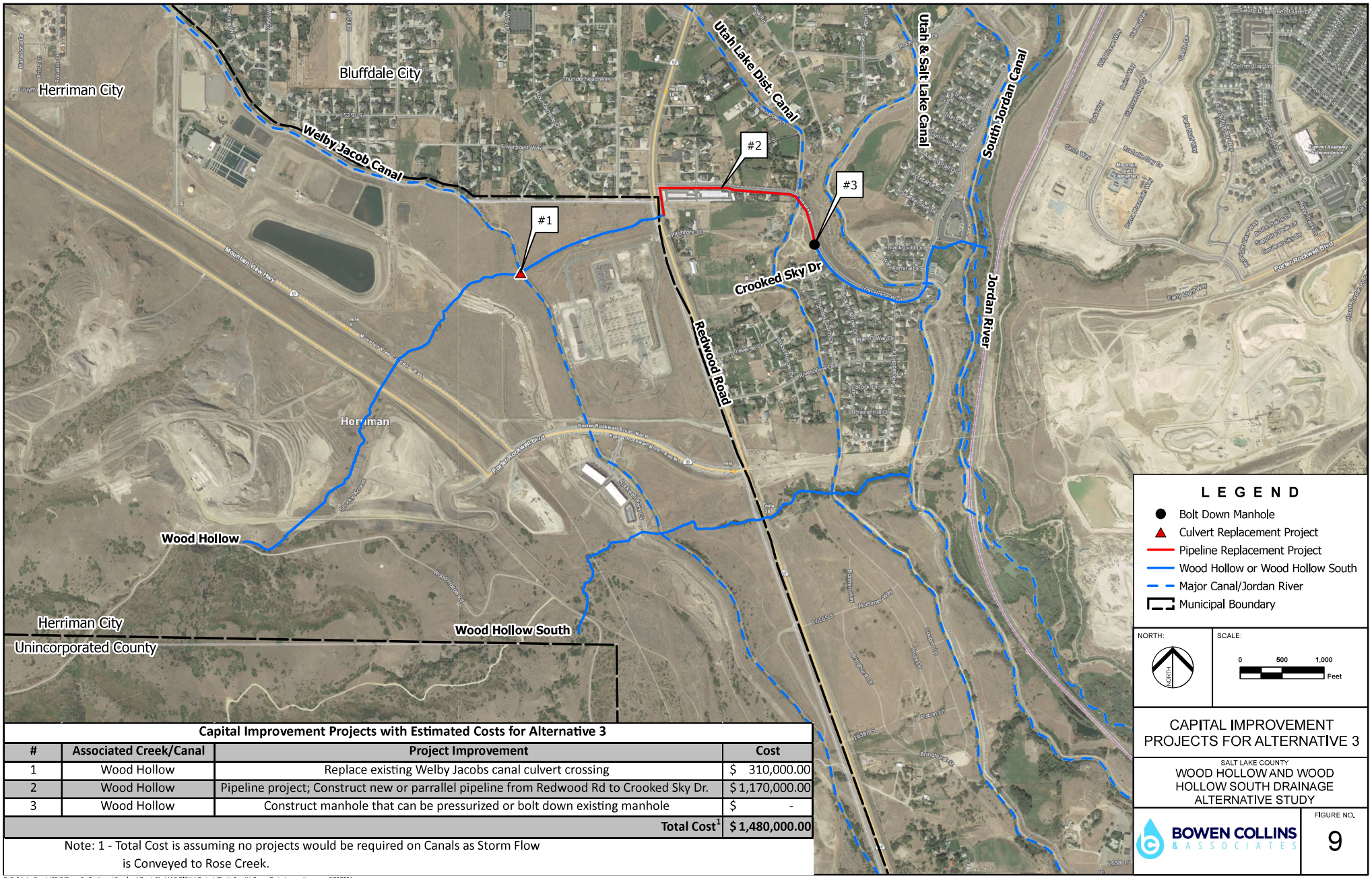
SALT LAKE COUNTY
WOOD HOLLOW AND WOOD HOLLOW SOUTH DRAINAGE ALTERNATIVE STUDY

BOWEN COLLINS & ASSOCIATES

FIGURE NO. 8

Summary of Existing Culvert and Pipe Characteristics

ID	Culvert or Bridge Location	Estimated 100-yr Discharge for Existing Conditions (cfs)	Estimated 100-yr Discharge for Future Conditions for Alternative 3 (cfs)	Estimated Culvert Capacity (cfs)	Existing Culvert Size (Diameter)	Notes
WH-1	Pipe from overflow pond to Jordan River	130	150	200	36" RCP	
WH-2	Pipe from USLC to Overflow Pond	130	160	235	48" RCP	
WH-3	Pipe from ULDC to USLC	130	160	155 - 235	42" to 48" RCP	
WH-4	Pipe from Redwood Road to ULDC	130	160	85 - 120	30" to 42" RCP	Entire Reach is Undersized
WH-5	Pipe under Redwood Road	110	140	140	48" RCP	
WH-6	Welby Jacob Canal	110	140	70	39" CMP	Culvert is undersized, causing overtopping into canals
WH-7	Mountain View Corridor	110	130	280	48" RCP	
WH-8	Gravel Pit Road	100	130	420	48" RCP	
WHS-1	South Jordan Canal	0	0	--	--	Not Required
WHS-2	Utah & Salt Lake Canal	25	35	--	--	Not Required
WHS-3	Utah Lake Distribution Canal	25	35	1100	10' x 6' Arch	
WHS-4	Trail	25	35	170	4' CMP	
WHS-5	Redwood Road	23	35	3980	27' x 11' Box	
WHS-6	Pipe under Welby Jacob Canal	23	30	55	2' CMP	
WHS-7	Pipe from Start to Welby Jacob Canal	23	30	30	2' CMP	
ULDC-33	Ironhorse Blvd	90	80	190	5' RCP	
ULDC-34	15730 S	90	70	160	14' X 6'	
ULDC-35	Porter Rockwell Blvd	90	70	200	12' X 6'	
USLC-82	Iron Horse Blvd	190	200	800	20'X7' Box	
USLC-83	Trail Bridge #2	195	200	Not a Restriction	45' Footbridge	
USLC-85	Trail Bridge #3	180	180	Not a Restriction	48' Footbridge	



Capital Improvement Projects with Estimated Costs for Alternative 3

#	Associated Creek/Canal	Project Improvement	Cost
1	Wood Hollow	Replace existing Welby Jacobs canal culvert crossing	$ 310,000.00
2	Wood Hollow	Pipeline project; Construct new or parrallel pipeline from Redwood Rd to Crooked Sky Dr.	$ 1,170,000.00
3	Wood Hollow	Construct manhole that can be pressurized or bolt down existing manhole	$ -
		Total Cost[1]	**$ 1,480,000.00**

Note: 1 - Total Cost is assuming no projects would be required on Canals as Storm Flow is Conveyed to Rose Creek.

CAPITAL IMPROVEMENT PROJECTS FOR ALTERNATIVE 3

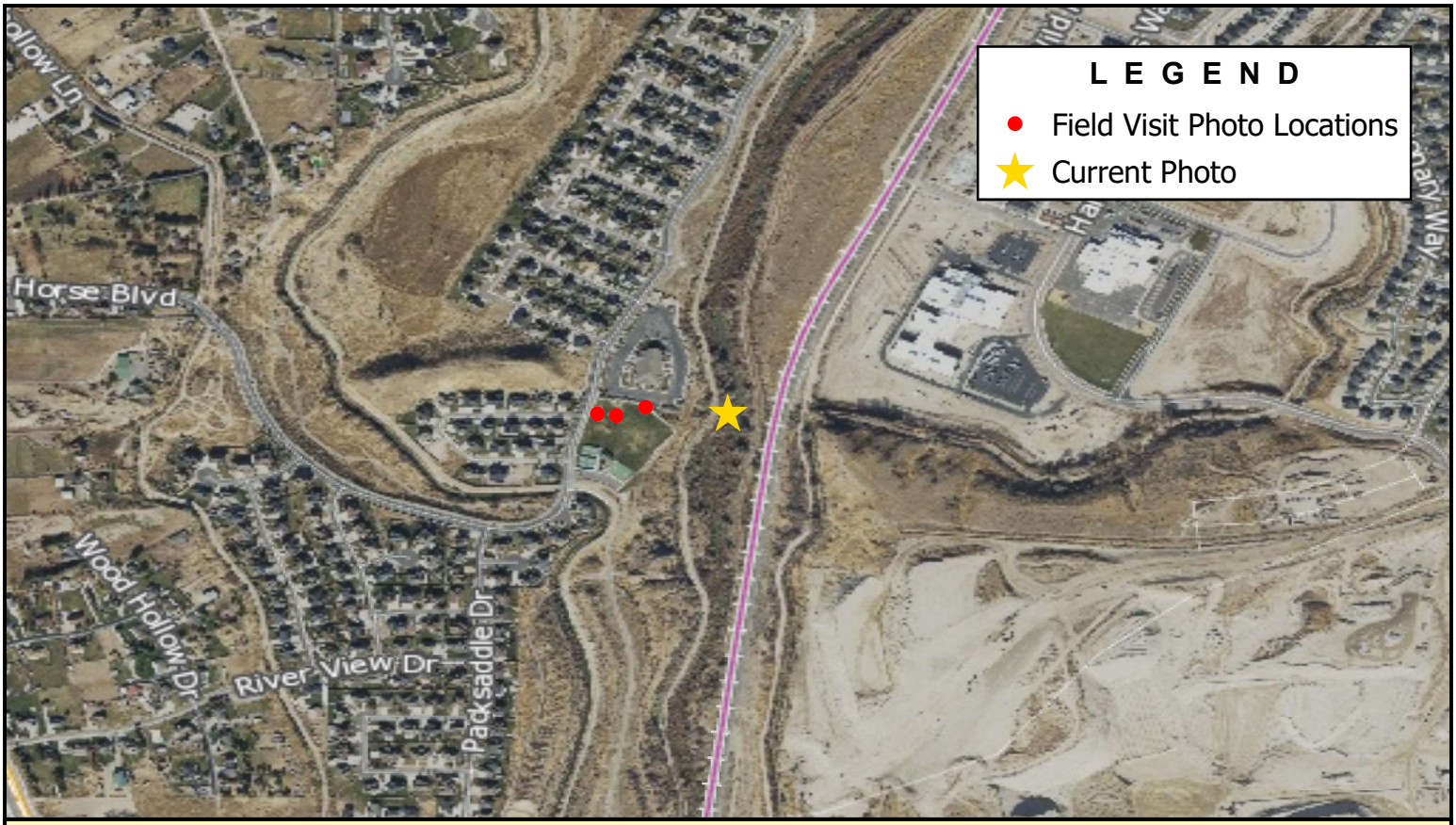
SALT LAKE COUNTY
WOOD HOLLOW AND WOOD HOLLOW SOUTH DRAINAGE ALTERNATIVE STUDY

BOWEN COLLINS & ASSOCIATES

FIGURE NO. 9

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Projects.aprx tjorgensen 2/26/2021

APPENDIX A
PHOTO LOG



Note: End of Wood Hollow at Jordan River (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Wood Hollow

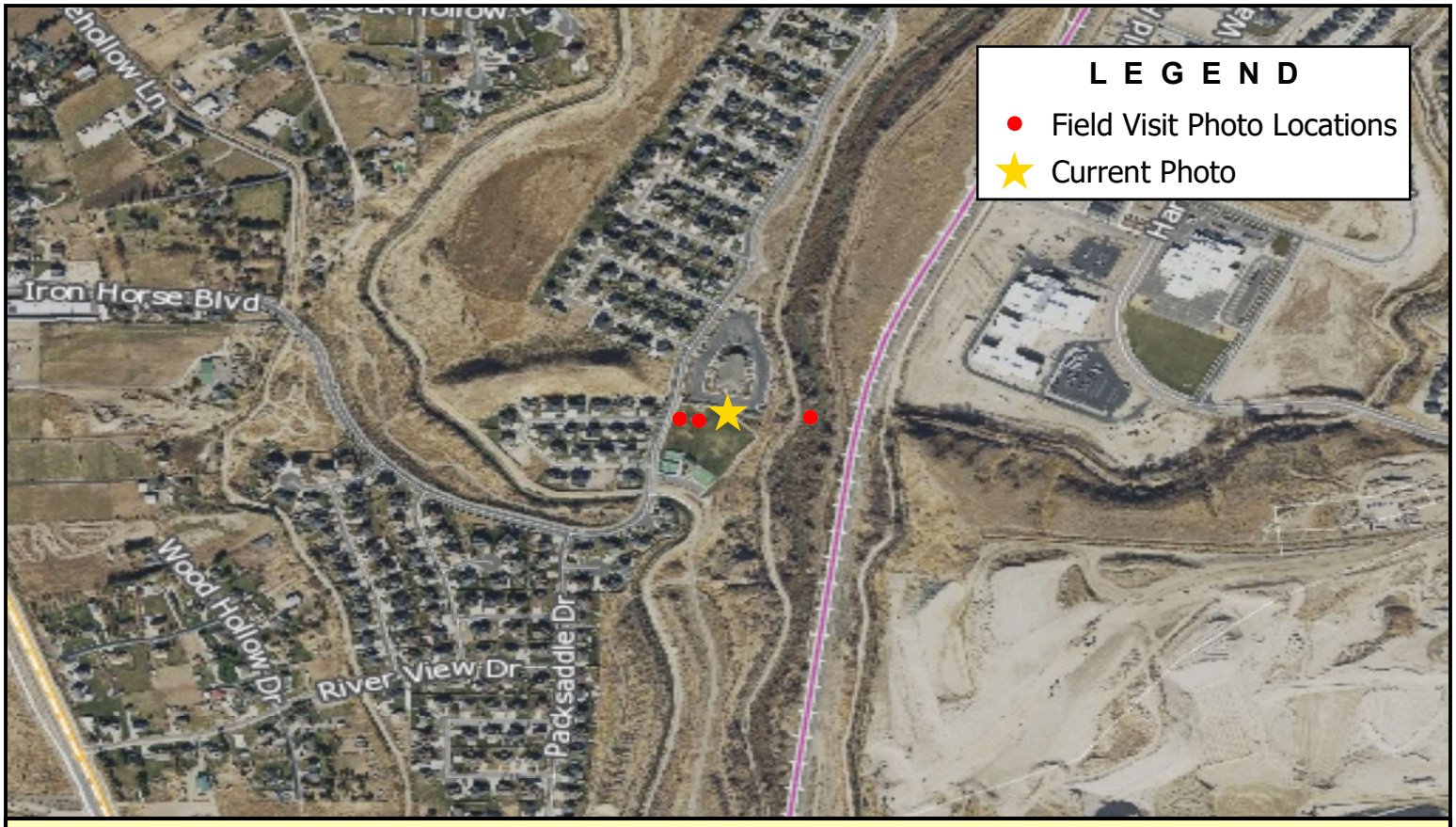
Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 1

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021



Note: Wood Hollow Overflow Pond outlet structure (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Overflow Pond

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 2

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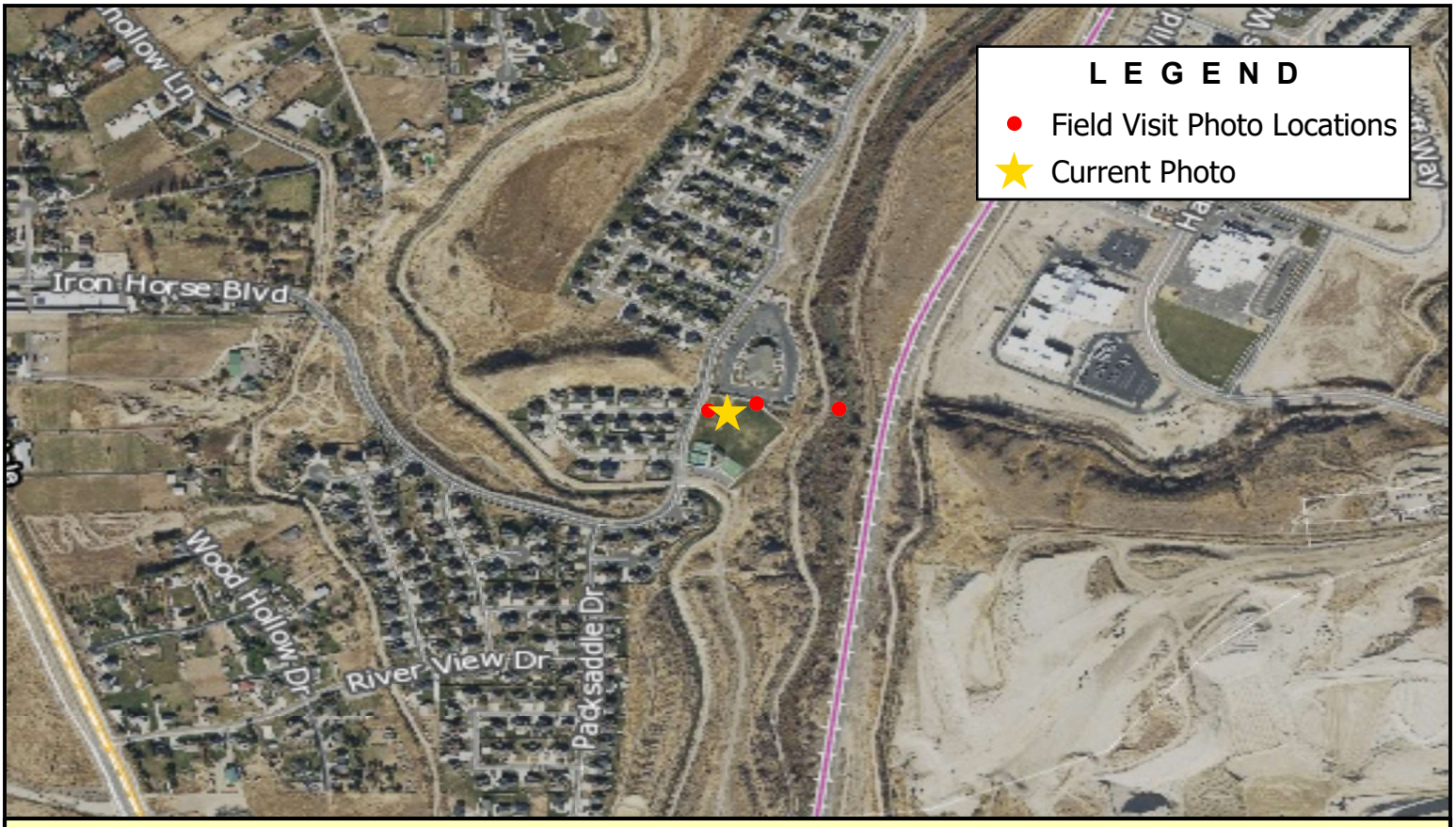


Note: Wood Hollow Overflow Pond outlet structure and emergency spillway (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Overflow Pond

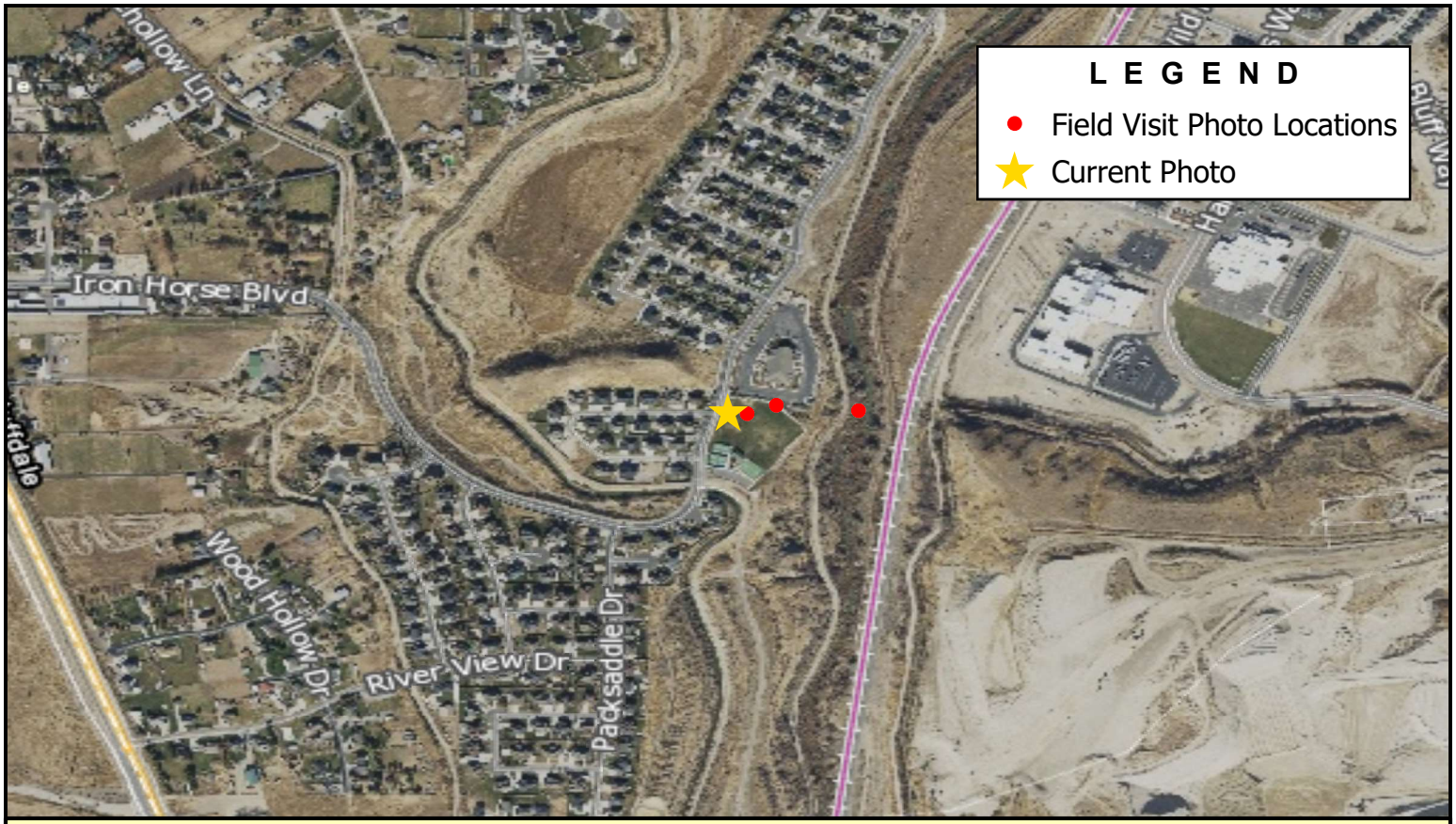
Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 3

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021



Note: Discharge of Wood Hollow into overflow pond (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Wood Hollow

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 4

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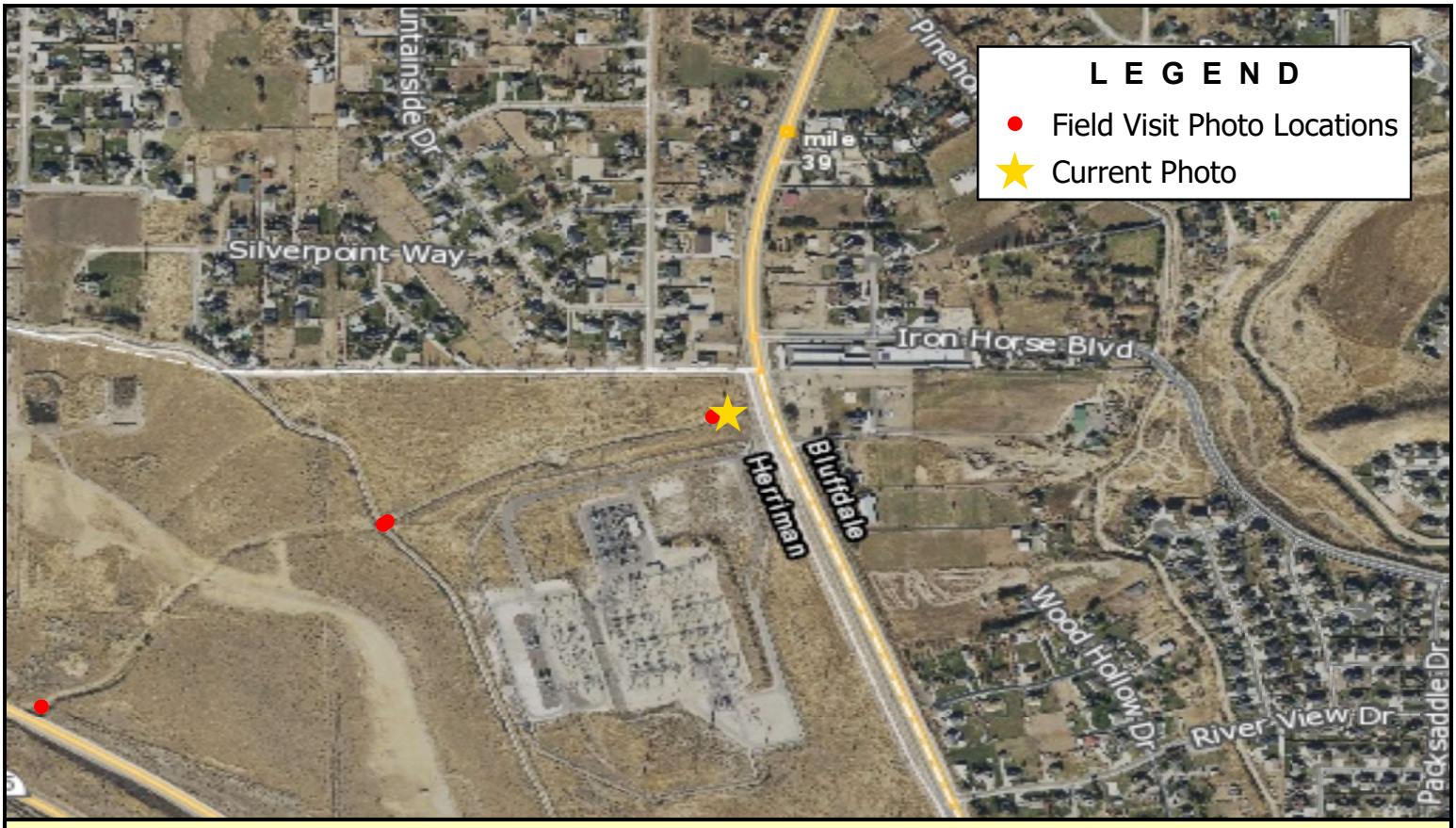

Note: Inlet to Wood Hollow Piped portion at Redwood Rd. (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Redwood Rd.

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 5

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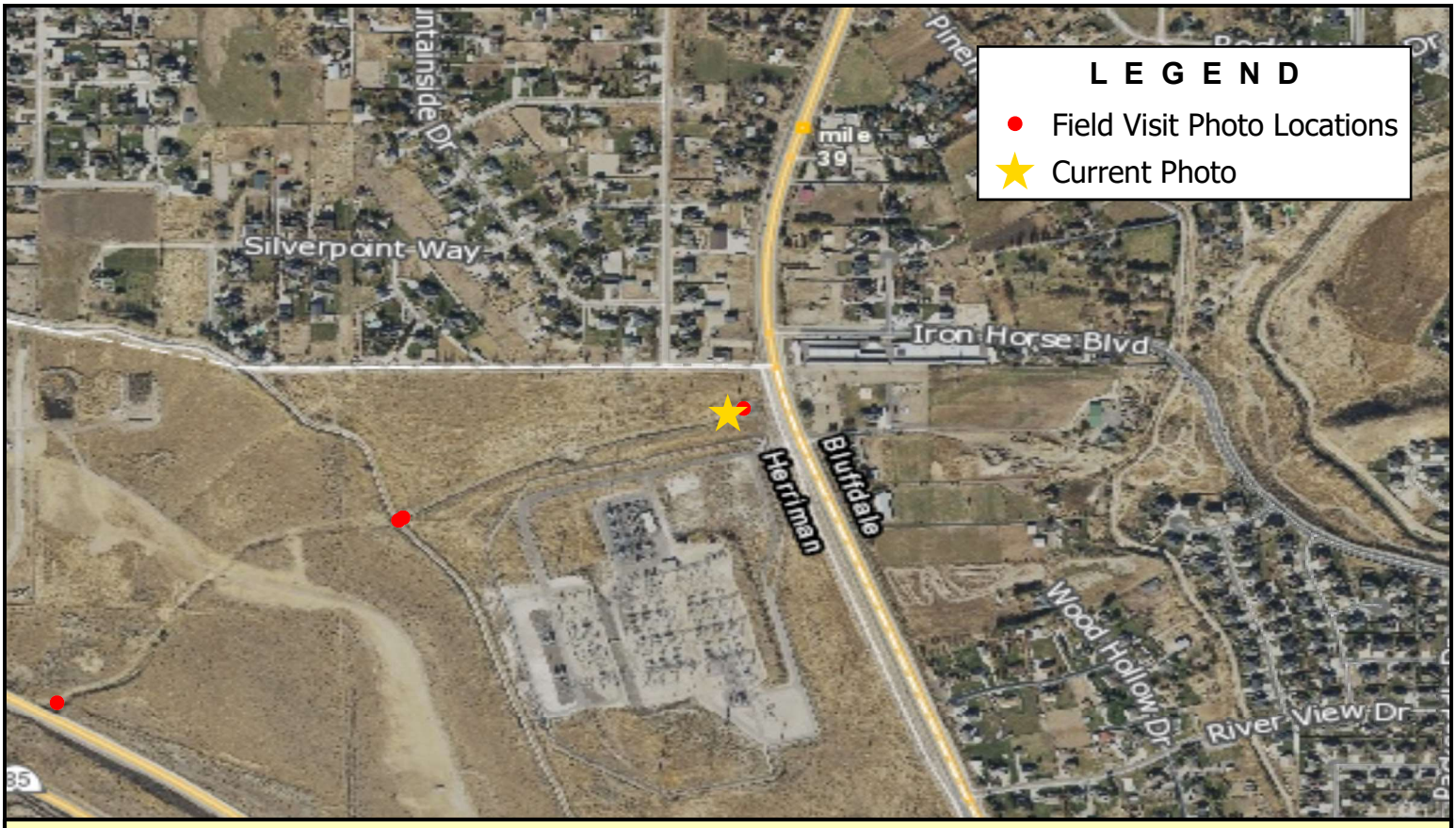

Note: Wood Hollow Channel (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Wood Hollow

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 6

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021

Note: Downstream end of Wood Hollow Welby Jacob Canal culvert (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Welby Jacob Canal

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 7

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021

Note: Pipe culvert of Wood Hollow crossing over Welby Jacob Canal (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Welby Jacob Canal

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 8

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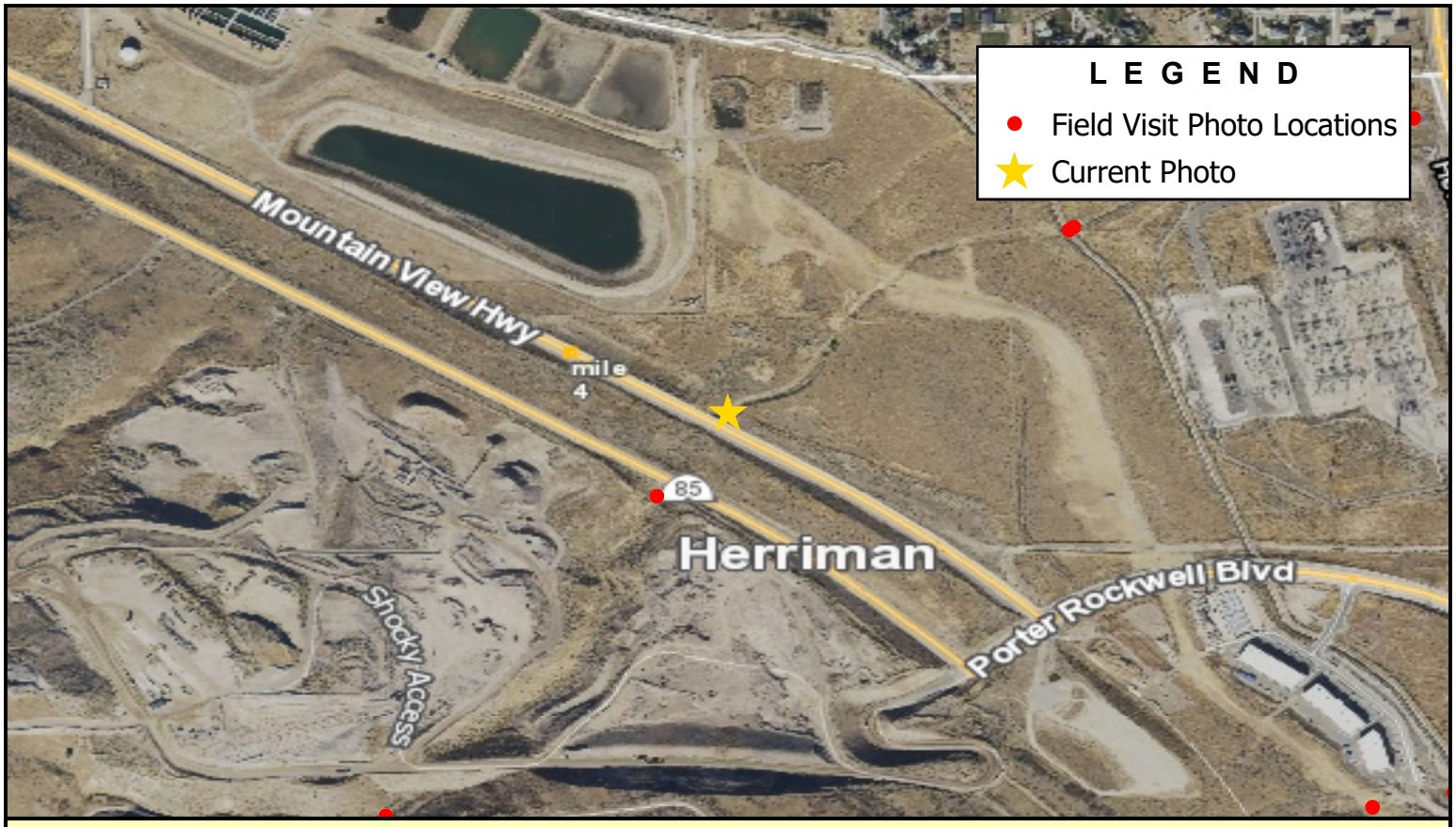


Note: Downstream end of Mountain View Corridor for Wood Hollow (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Moutain View Corridor

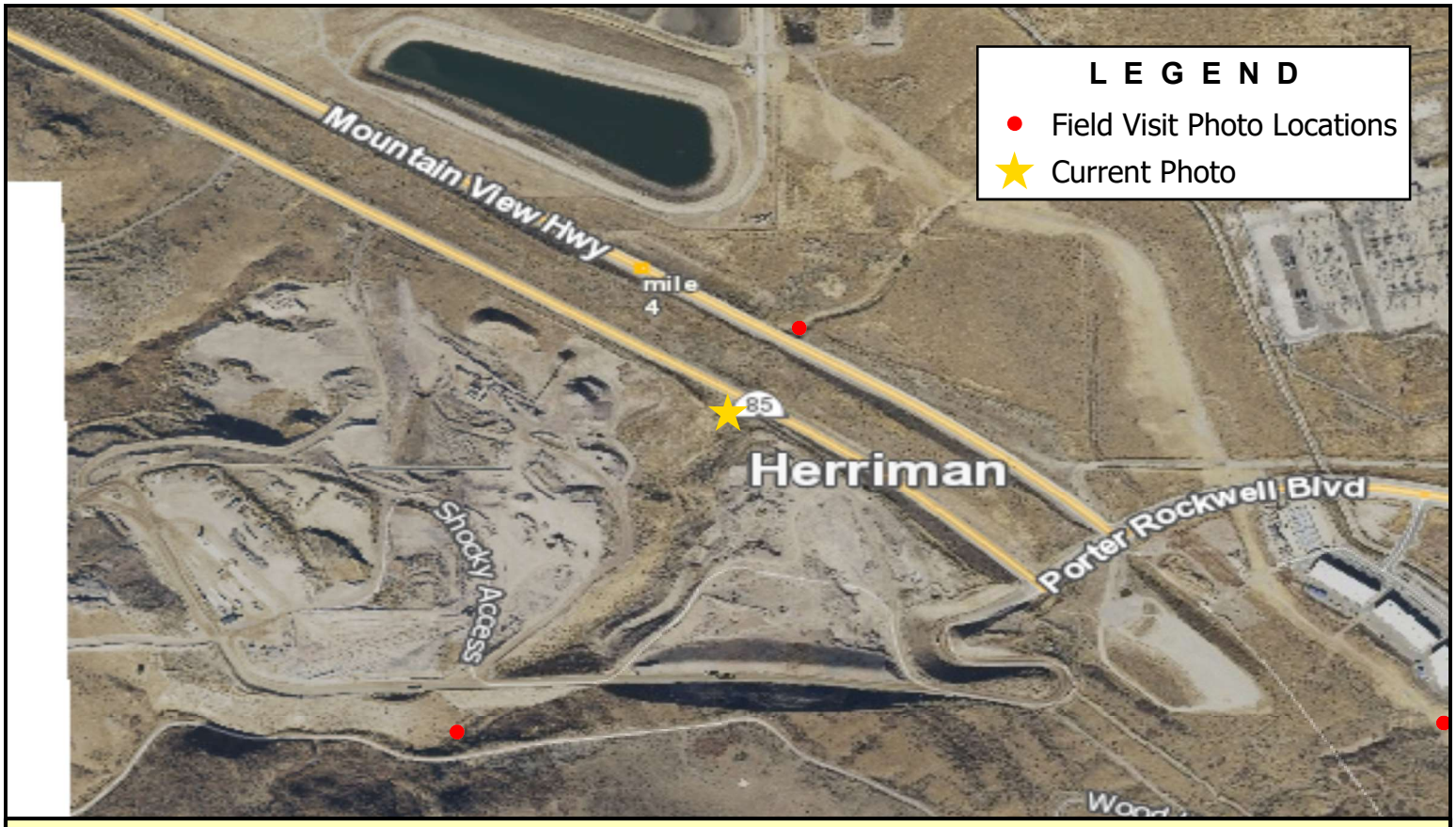
Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 9

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021



Note: Upstream end of Mountain View Corridor for Wood Hollow (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Moutain View Corridor

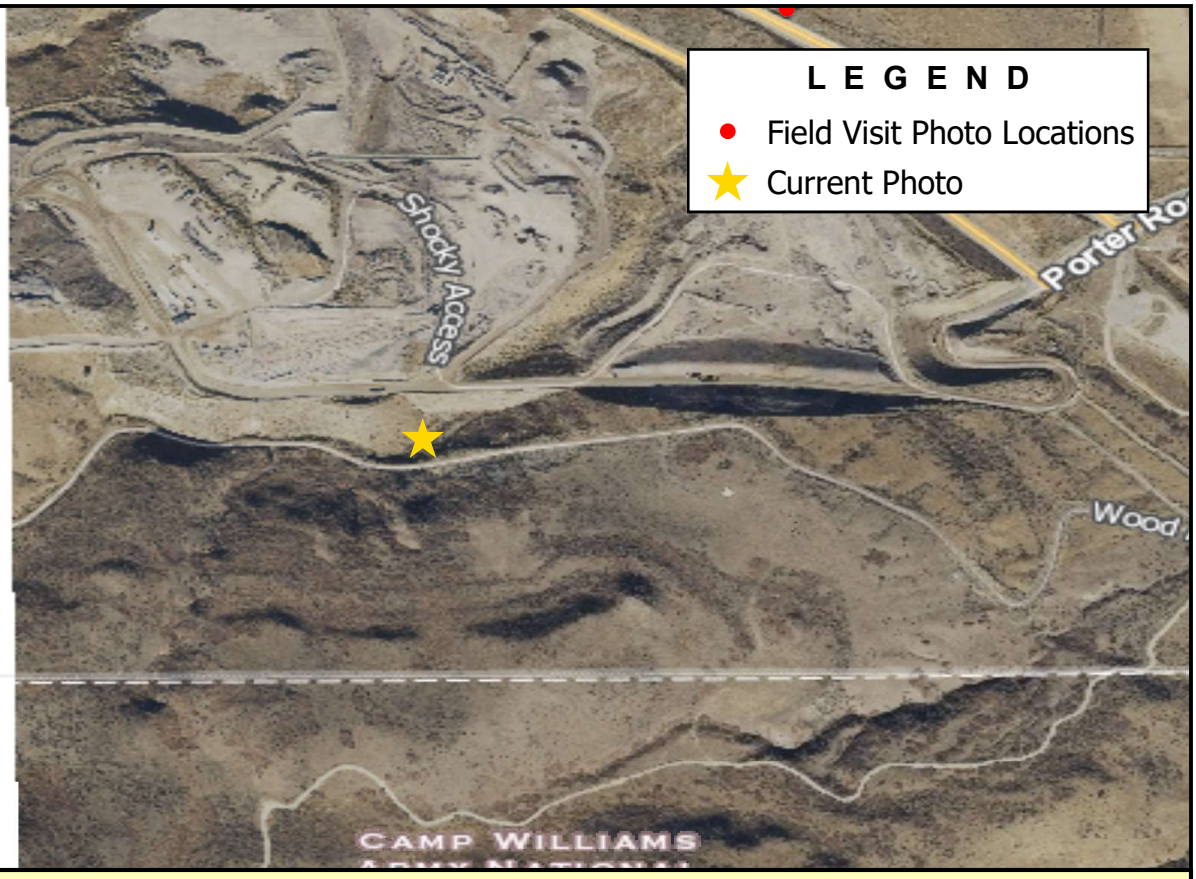
Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 10

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021



Note: Upstream end of access road culvert (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Access Road

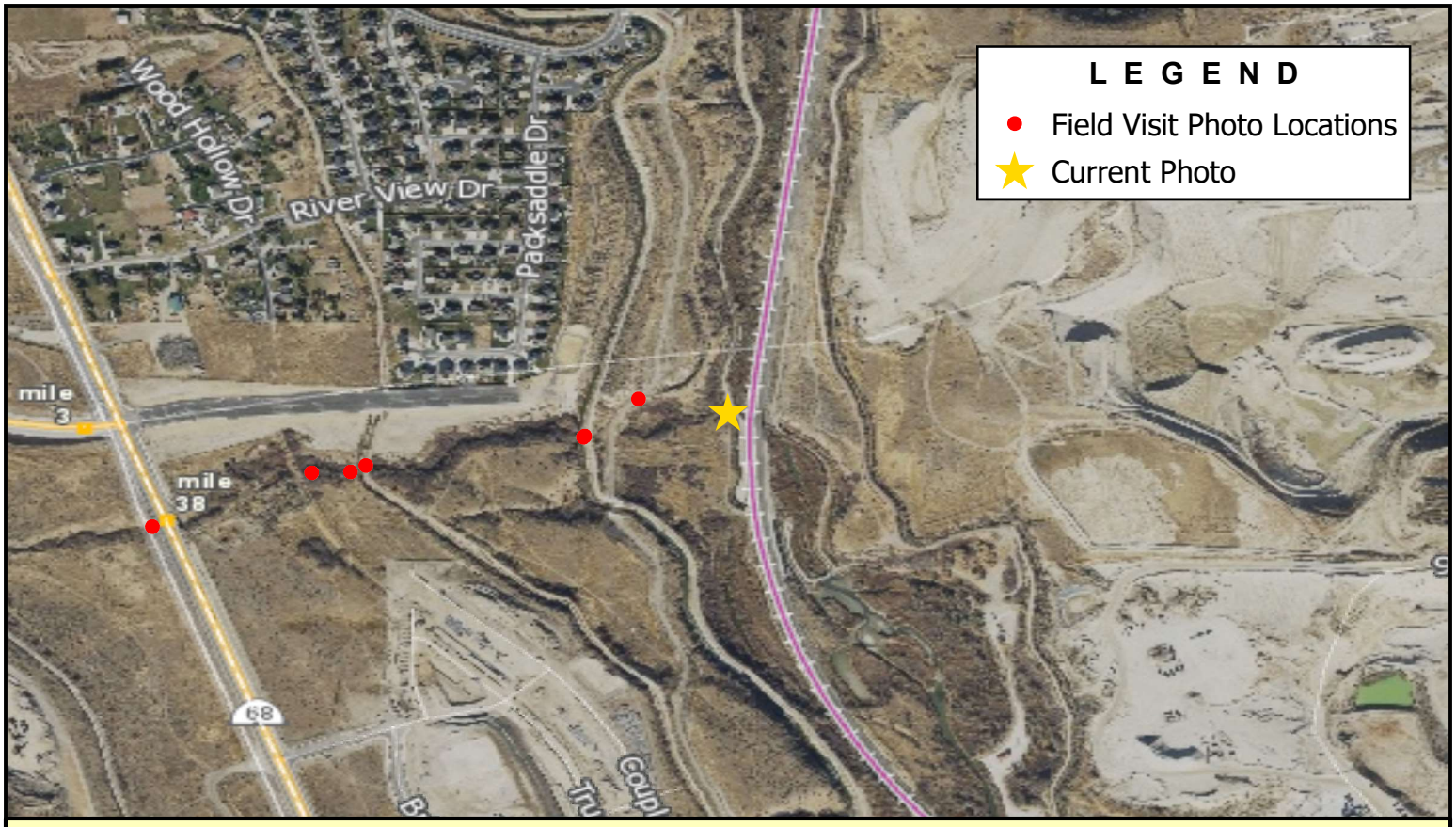
Salt Lake County
Wood Hollow and Wood Hollow
South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 11

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021



Note: South Jordan Canal at the end of Wood Hollow South

BOWEN COLLINS & ASSOCIATES

South Jordan Canal

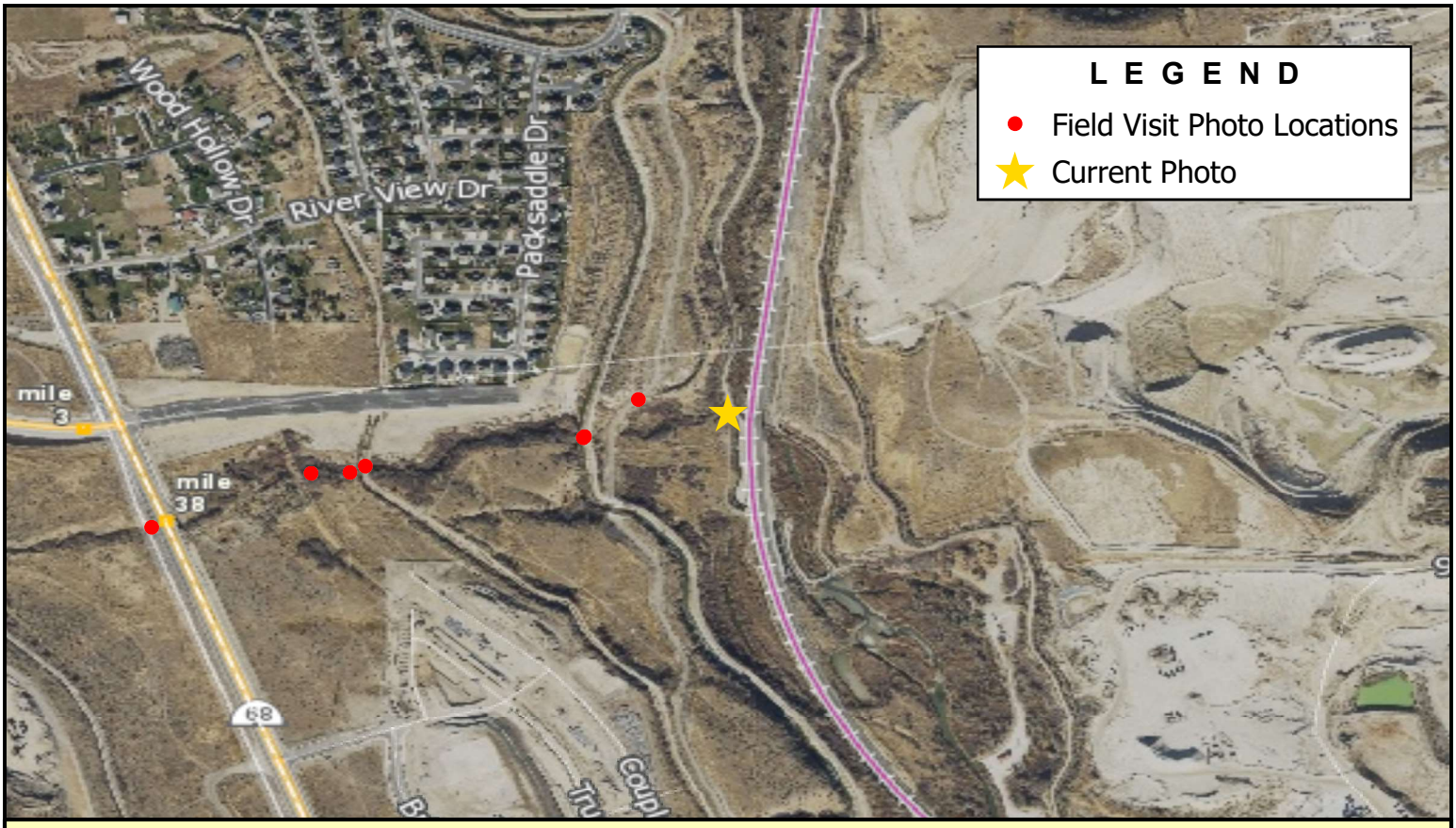
Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 12

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021



Note: Approximate dishcarge point of abandoned Wood Hollow South into South Jordan Canal

BOWEN COLLINS & ASSOCIATES

South Jordan Canal

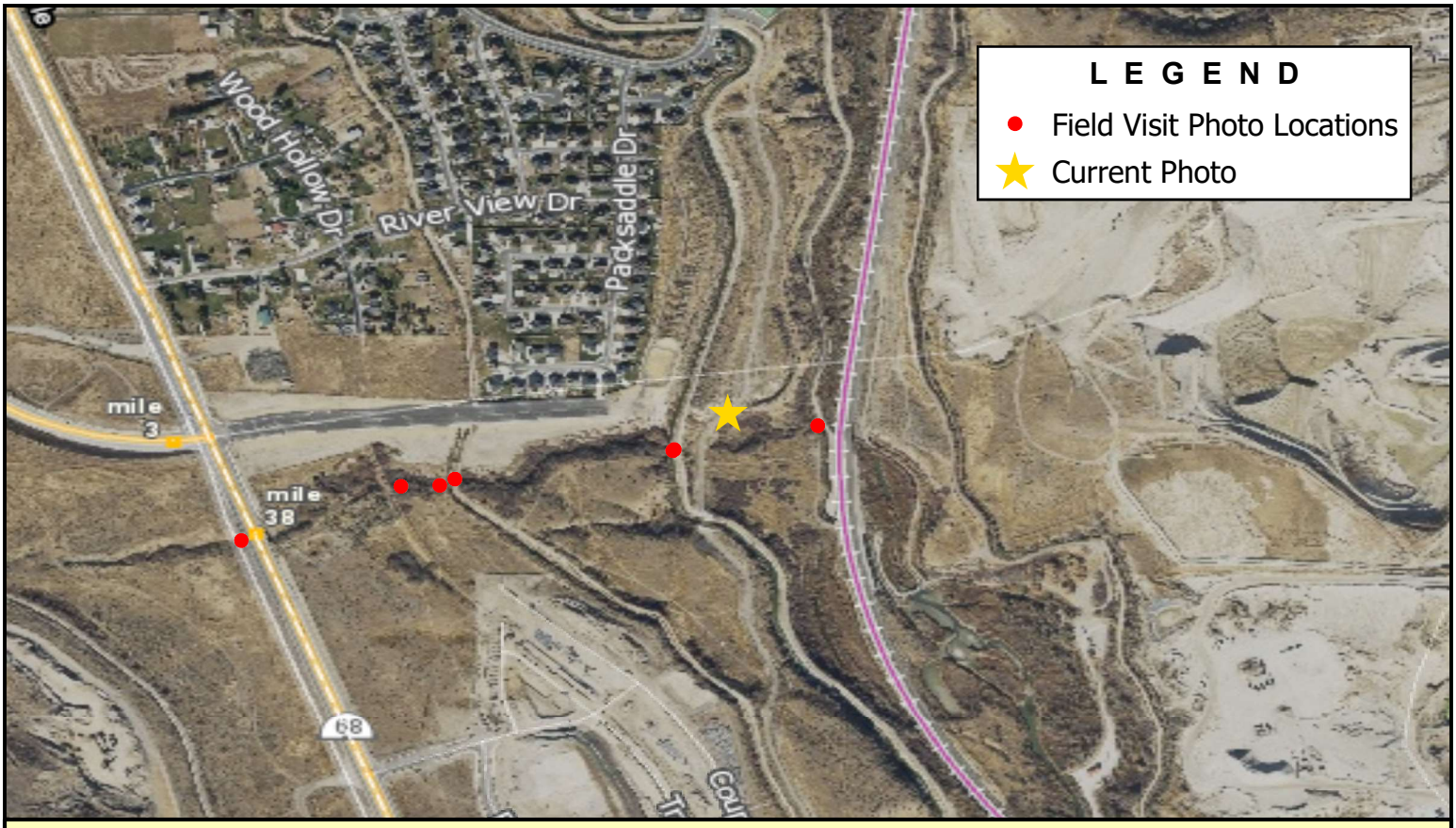
Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 13

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021



Note: Abandoned portion of Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Wood Hollow South

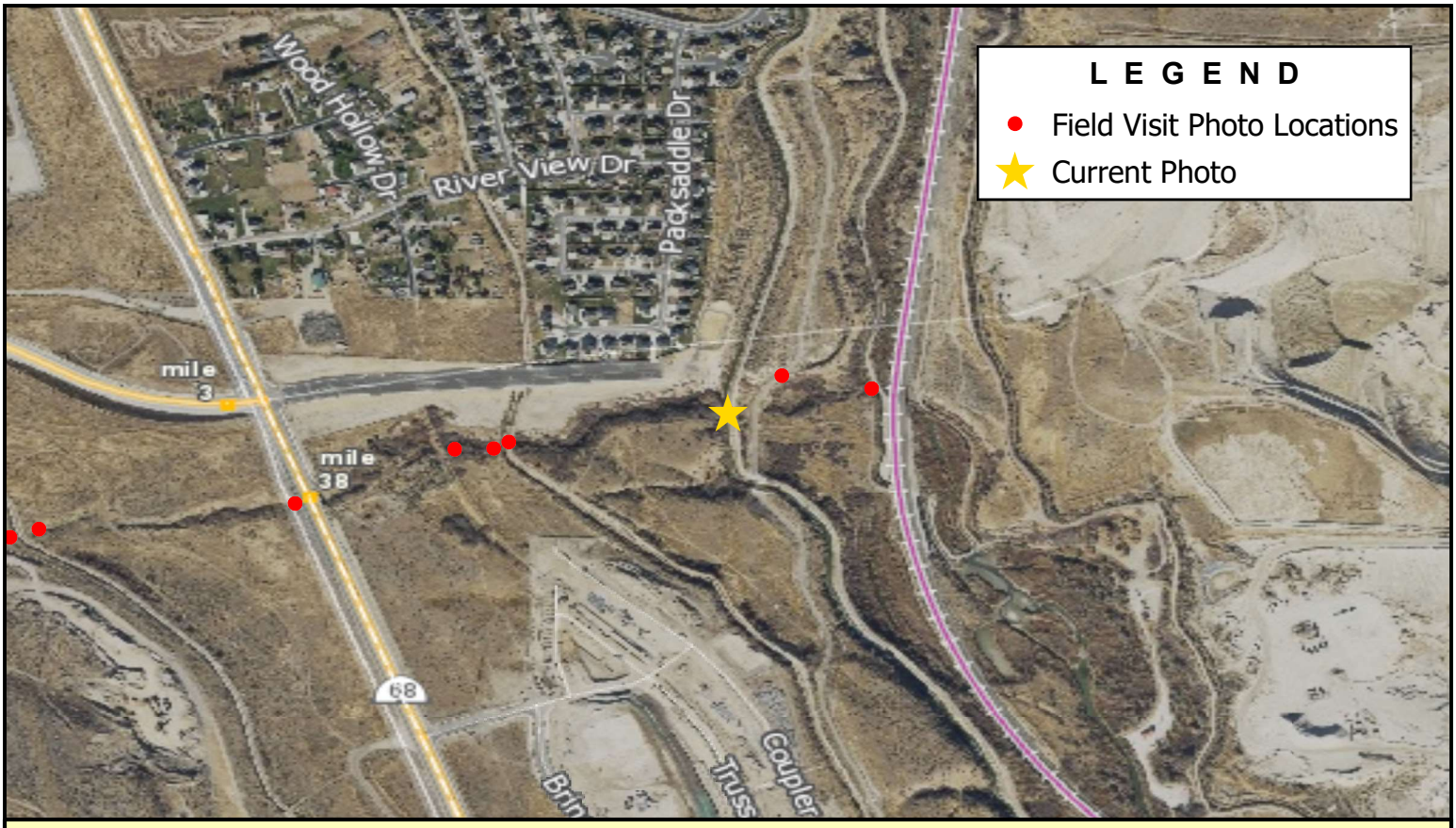
Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 14

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021



Note: Discharge of Wood Hollow South into USLC

BOWEN COLLINS & ASSOCIATES

USLC

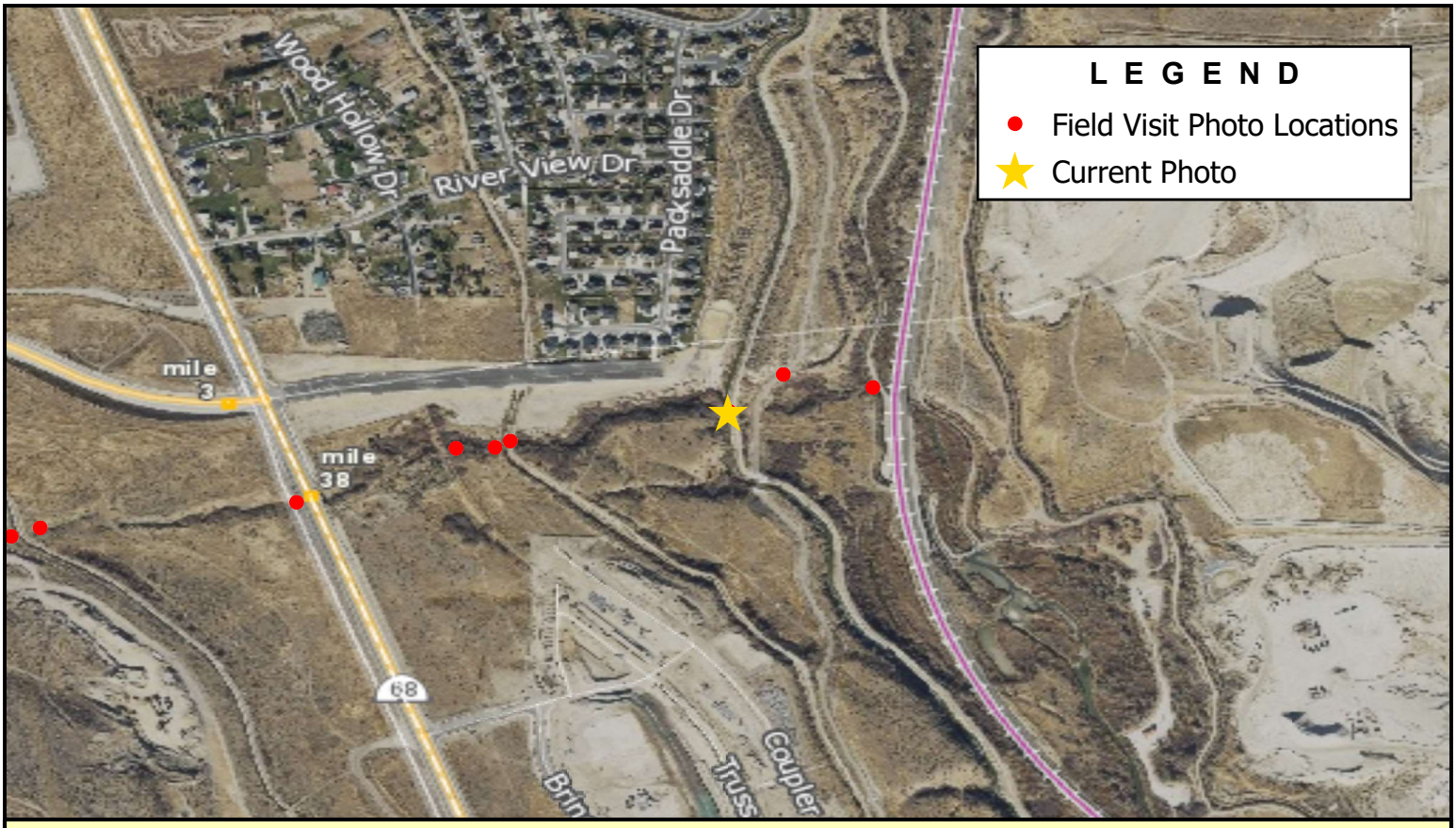
Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 15

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021



Note: Headwall structure on USLC at discharge point of Wood Hollow South

BOWEN COLLINS & ASSOCIATES

USLC

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 16

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021

Note: Downstream end of ULDC culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

ULDC

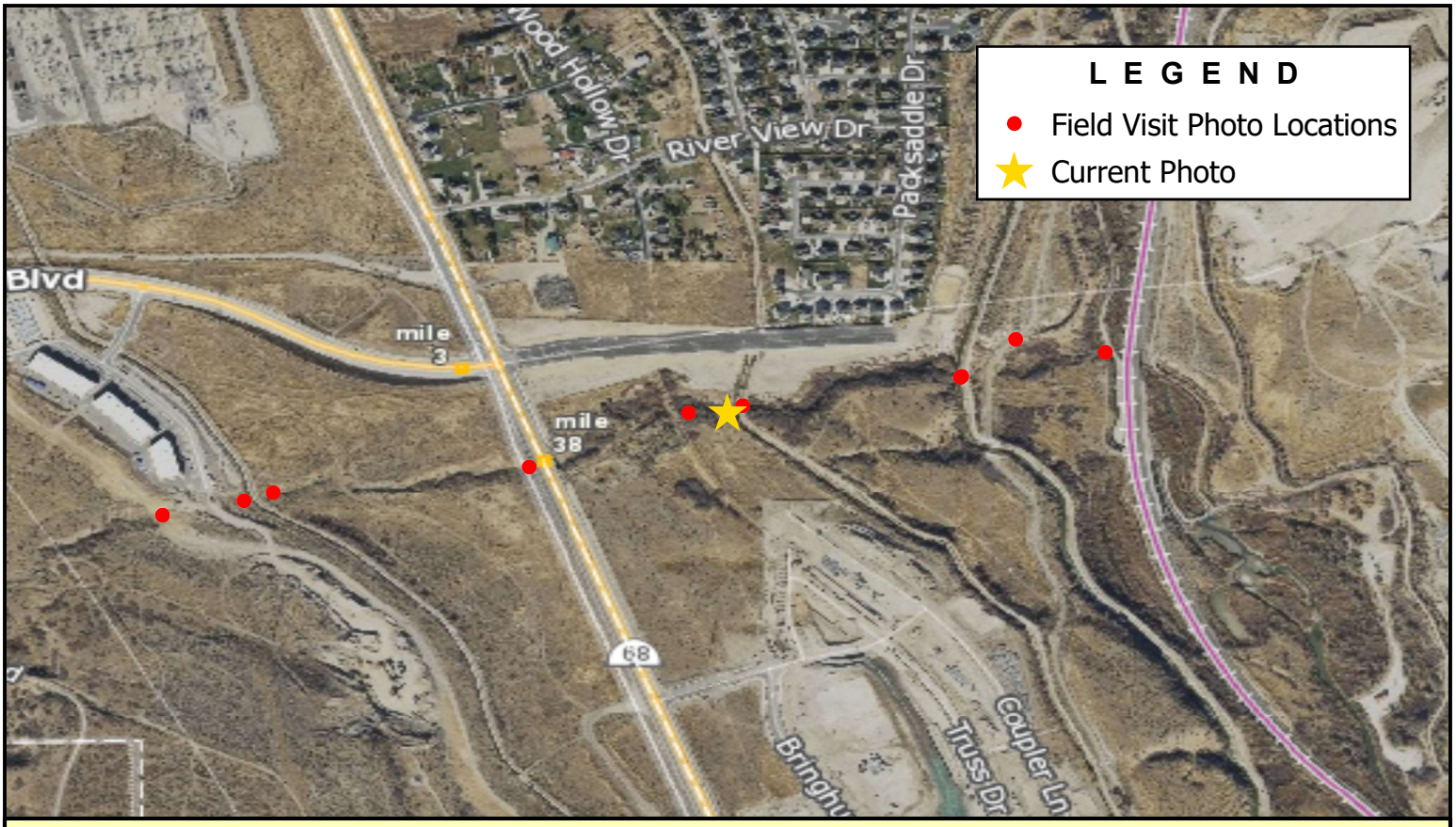
Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 17

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021



Note: Upstream end of ULDC culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

ULDC

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 18

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Note: Downstream end of trail culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Trail

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 19

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Note: Overhead view of Wood Hollow South crossing of Redwood Rd.

BOWEN COLLINS & ASSOCIATES

Redwood Rd.

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 20

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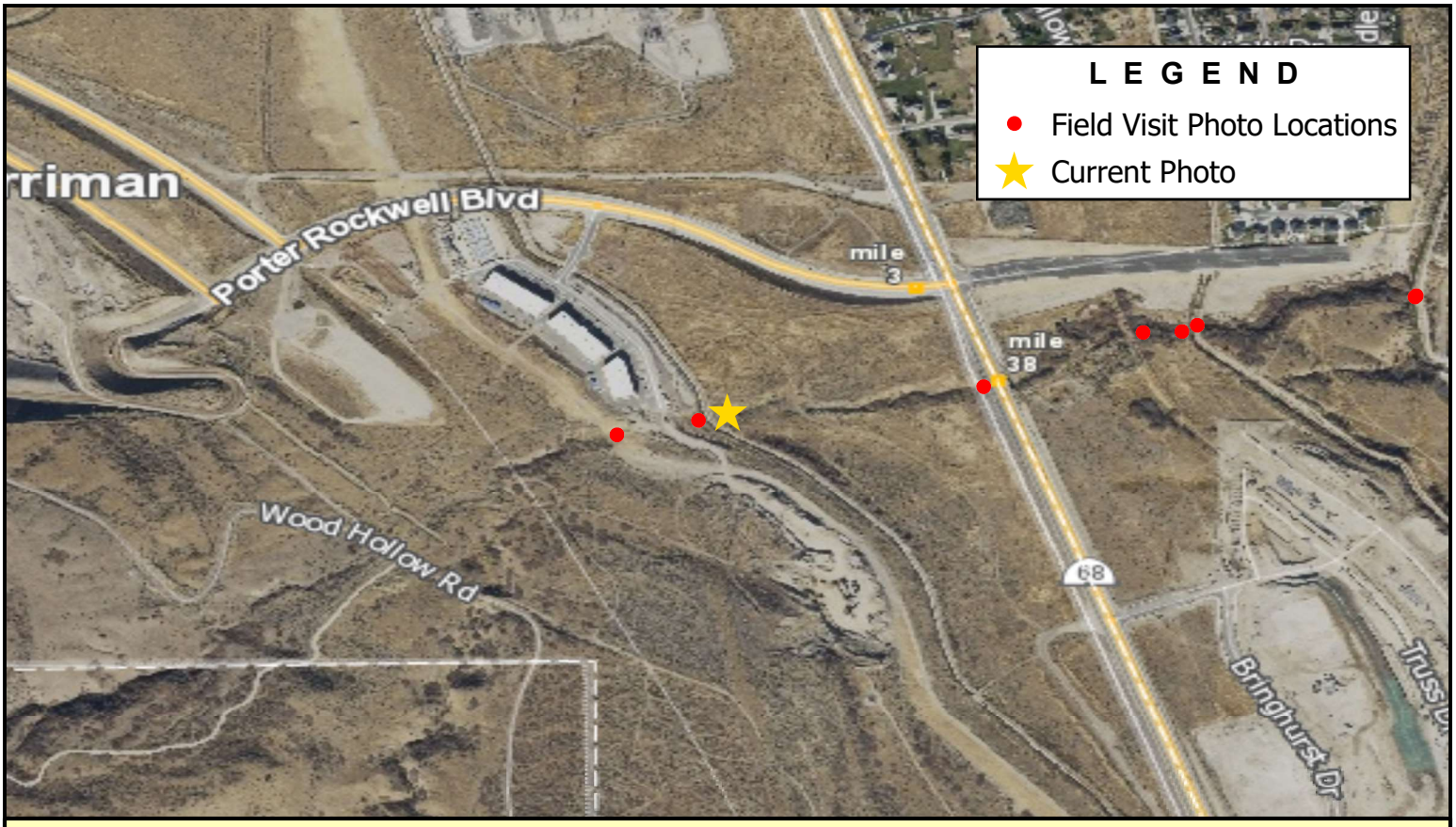

Note: Downstream end of Welby Jacob Canal culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Welby Jacob Canal

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 21

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\Hollows - Photos.aprx tjorgensen 2/26/2021

Note: Manhole for Welby Jacob Canal culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Welby Jacob Canal

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 22

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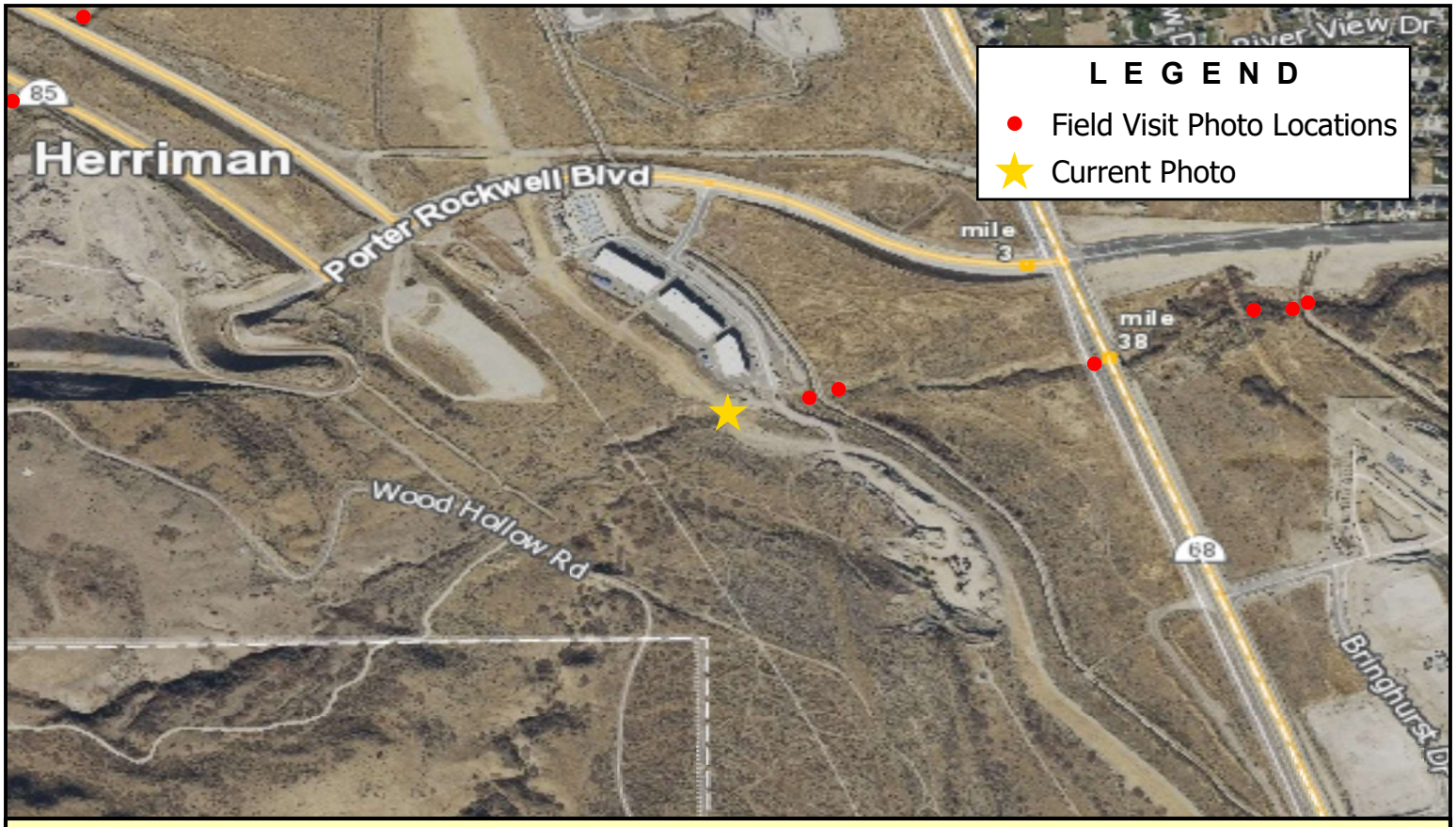

Note: Upstream end of Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Wood Hollow South

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 23

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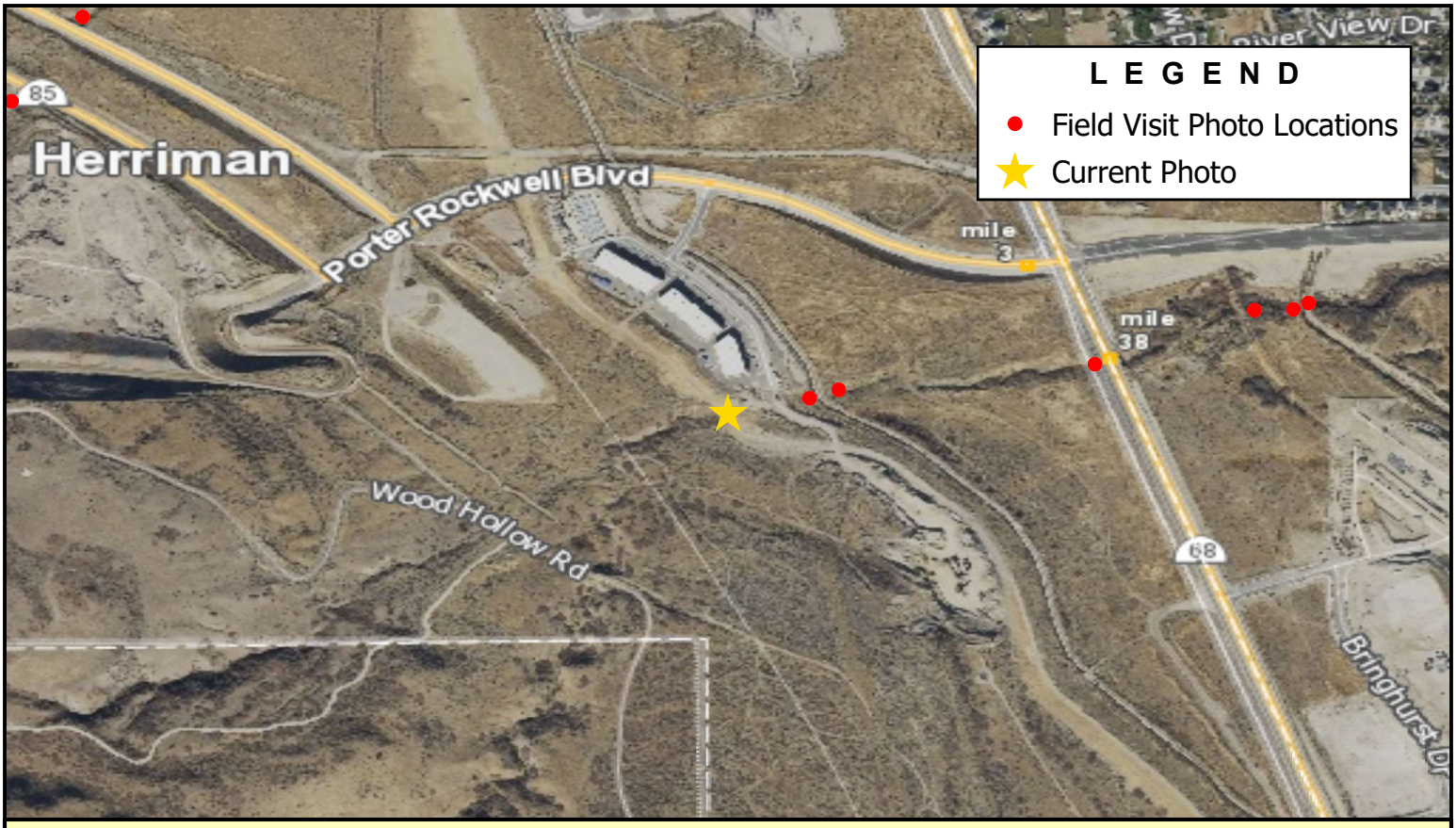

Note: Inlet to Welby Jacob Canal culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Welby Jacob Canal

Salt Lake County
Wood Hollow and Wood Hollow South Drainage Alternative Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 24

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APPENDIX B
COST ESTIMATES

Table B-1
Estimated Capital Improvement Costs

#	Project Improvement	Base Cost for Flooding
1	Replace existing Welby Jacobs canal culvert crossing	$ 310,000.00
2	Pipeline project; Construct new or parrallel pipeline from Redwood Rd to Crooked Sky Dr.	$ 1,170,000.00
3	Construct manhole that can be pressurized or bolt down existing manhole	$ -
4	Pipeline project; Construct new or parallel pipeline from Crooked Sky Dr. to Overflow Pond	$ 1,420,000.00
5	Construct new overflow pond outlet pipe	$ 530,000.00
6	Construct improved inlet to increase capacity of pipeline	$ 70,000.00
7	Construct a new culvert to convey storm water underneath USLC	$ 350,000.00
8	Construct a new culvert to convey storm water underneath SJC	$ 390,000.00
9	Construct overflow/dumpout to convey storm water to Wood Hollow	$ 210,000.00
10	Bank Deficiency Btw Porter Rockwell Blvd & 15370 South Street	$ 29,000.00
11	Construct overflow/dumpout to convey storm water to Wood Hollow South	$ 210,000.00
12	Construct overflow/dumpout to convey storm water to Wood Hollow	$ 210,000.00
13	Construct overflow/dumpout to convey storm water to Wood Hollow South	$ 210,000.00

Table B-2
Culvert Replacement Project Calculations

UDOT Road (Y/N)	Proposed Culvert Size	Length/Qt	Unit Cost	Mob	Admin/Enginerring/Legal Fees/Contingency
N	5.5' RCP	60	$ 400.00	$ 200,000.00	$ 89,600.00
N					
N					
N		0			$ -
N	6' RCP	450	$ 400.00	$ 200,000.00	$ 152,000.00
N		1	$ -	$ 50,000.00	$ 20,000.00
N	6' RCP	130	$ 400.00	$ 200,000.00	$ 100,800.00
N	6' RCP	200	$ 400.00	$ 200,000.00	$ 112,000.00
N		1	$ -	$ 150,000.00	$ 60,000.00
N					$ -
N		1	$ -	$ 150,000.00	$ 60,000.00
N		1	$ -	$ 150,000.00	$ 60,000.00
N		1	$ -	$ 150,000.00	$ 60,000.00

Table B-3
Bank Improvement Project Calculations

Unit Cost Used for Fill: $ 70.00 /cu yd

Cost	Fill (cu yd)	Unit Cost	Mob & Design	Admin/Enginerring/Legal Feels/Contingency	Cost
$ 313,600.00	0	$ 70.00	$ -	$ -	$ -
$ 1,167,000.00	0	$ 70.00	$ -	$ -	$ -
$ -	0	$ 70.00	$ -	$ -	$ -
$ 1,420,000.00	0	$ 70.00	$ -	$ -	$ -
$ 532,000.00	0	$ 70.00	$ -	$ -	$ -
$ 70,000.00	0	$ 70.00	$ -	$ -	$ -
$ 352,800.00	0	$ 70.00	$ -	$ -	$ -
$ 392,000.00	0	$ 70.00	$ -	$ -	$ -
$ 210,000.00	0	$ 70.00	$ -	$ -	$ -
	120	$ 70.00	$ 20,000.00	$ 336.00	$ 28,736.00
$ 210,000.00	0	$ 70.00	$ -	$ -	$ -
$ 210,000.00	0	$ 70.00	$ -	$ -	$ -
$ 210,000.00	0	$ 70.00	$ -	$ -	$ -

Table B-4
Bank Improvement Project Calculations Continued

Length	Height	Top Width	M:1	X-Sec Area	Volume (cu ft)	Volume (cu yd)	Notes
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
550	0.5	10	2	5.5	3025	112	
				0	0	0	
				0	0	0	
				0	0	0	

APPENDIX B

Photo Logs

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

North Jordan Canal

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 1

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

North Jordan Canal

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 2

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Canal

BOWEN COLLINS & ASSOCIATES

North Jordan Canal

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 3

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

8050 S

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 4

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

8050 S

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 5

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES	8050 S	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 6

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES	1300 W | Temple Drive	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 7

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

1300 W | Temple Drive

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 8

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

1300 W | Temple Drive

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 9

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

1500 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 10

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Note: Looking at Cuvlert

BOWEN COLLINS & ASSOCIATES	1500 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 11

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

1500 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 12

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	1500 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 13

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Bridge

BOWEN COLLINS & ASSOCIATES	Pedestrian Bridge	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 14

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

Pedestrian Bridge

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 15

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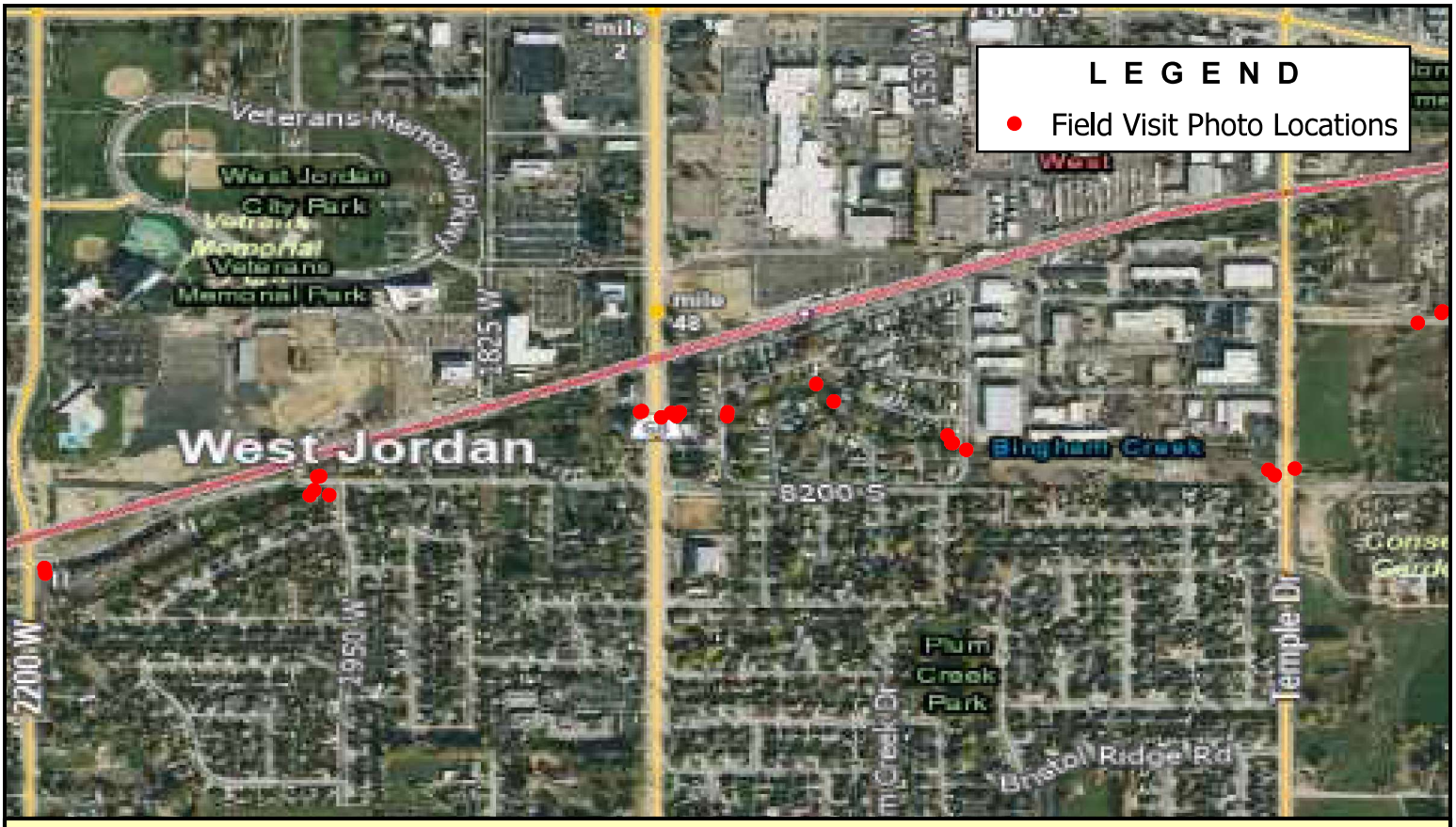

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	1650 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 16

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

1650 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 17

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Redwoood Road	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 18

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES	Redwoood Road	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 19

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Note: Looking at CUlvert

BOWEN COLLINS & ASSOCIATES	Redwoood Road	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 20

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Redwoood Road	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 21

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Redwoood Road

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 22

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Redwoood Road

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 23

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Sugar Factory Road

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 24

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Note: Looking Dowsntream

BOWEN COLLINS & ASSOCIATES

Sugar Factory Road

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 25

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Sugar Factory Road	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 26

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Sugar Factory Road

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 27

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Sugar Factory Road

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 28

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	2200 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 29

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

2200 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 30

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

2700 W | Utah Salt Lake Canal Crossing

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 31

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

2700 W | Utah Salt Lake Canal Crossing

Salt Lake County Flood Control

Bingham Creek SWCC Study

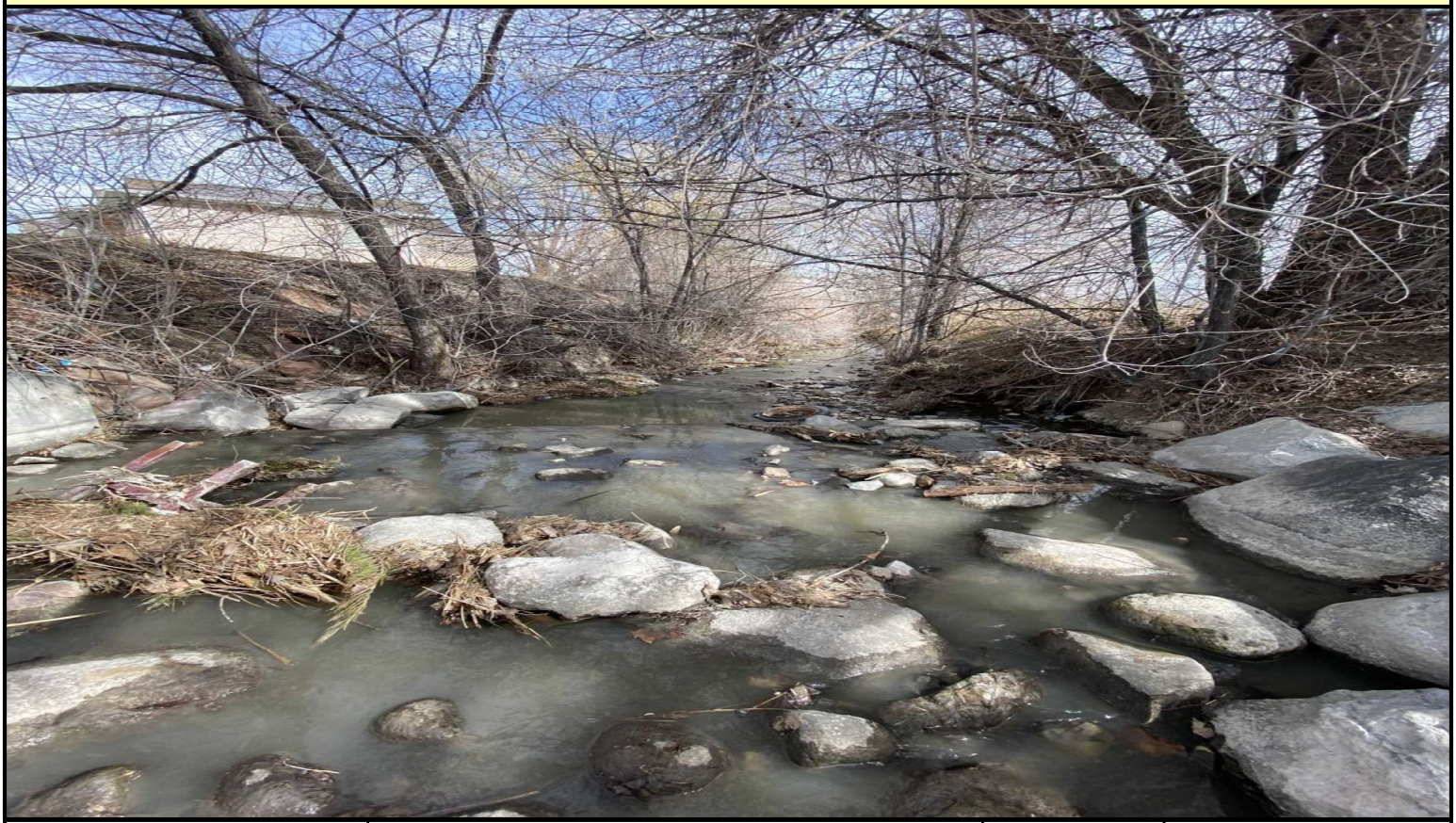
NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 32

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Downstream



BOWEN COLLINS & ASSOCIATES	2700 W | Utah Salt Lake Canal Crossing	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 33

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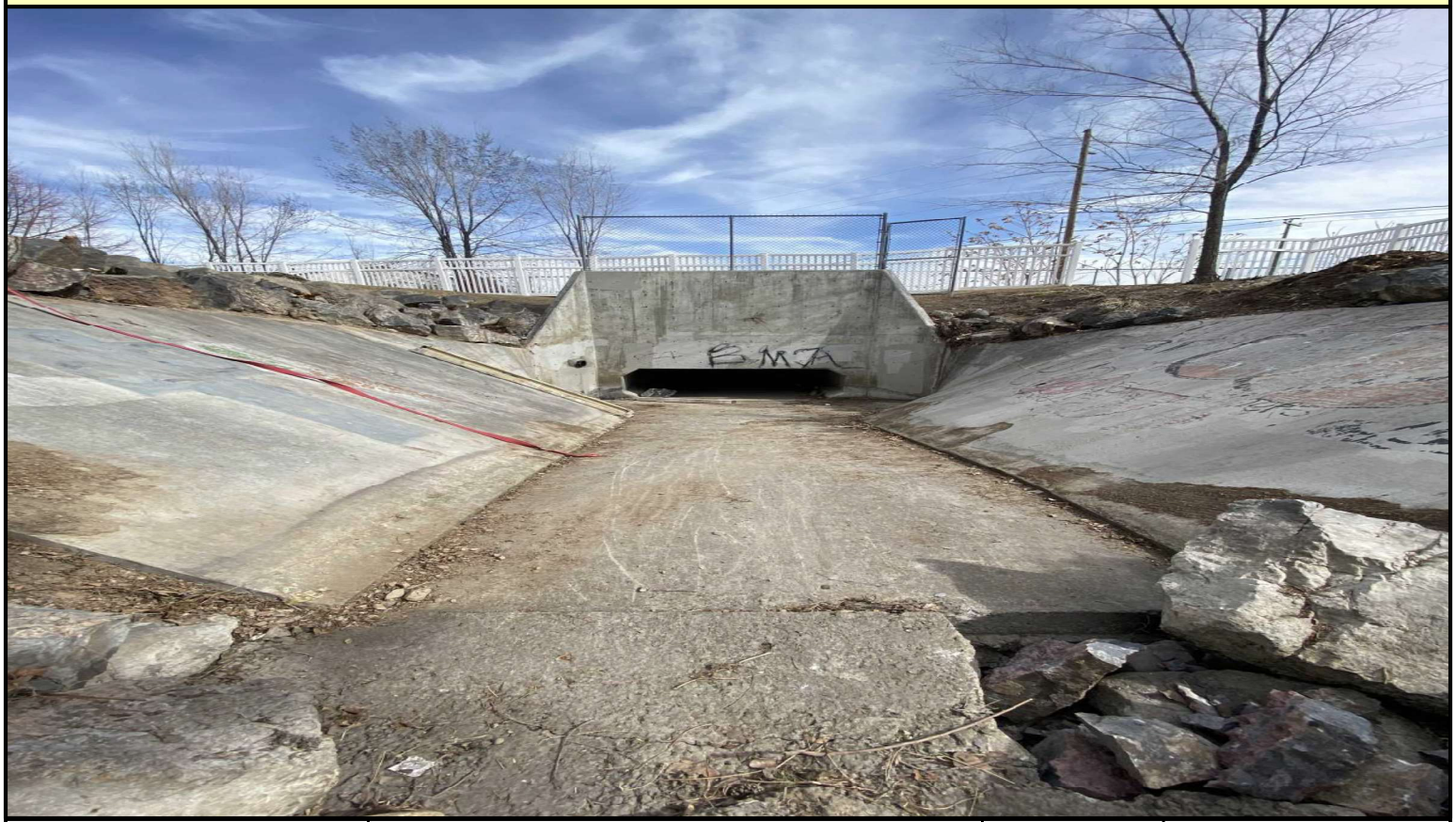
Note: Looking at Culvert



BOWEN COLLINS & ASSOCIATES

2700 W | Utah Salt Lake Canal Crossing

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 34

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

2700 W | Utah Salt Lake Canal Crossing

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 35

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	2700 W | Utah Salt Lake Canal Crossing	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 36

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

8580 S

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 37

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

8580 S

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 38

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

8580 S

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 39

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES	8580 S	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 40

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	8580 S	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 41

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

8580 S

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 42

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

8600 S

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 43

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	8600 S	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 44

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

3200 W

Salt Lake County Flood Control

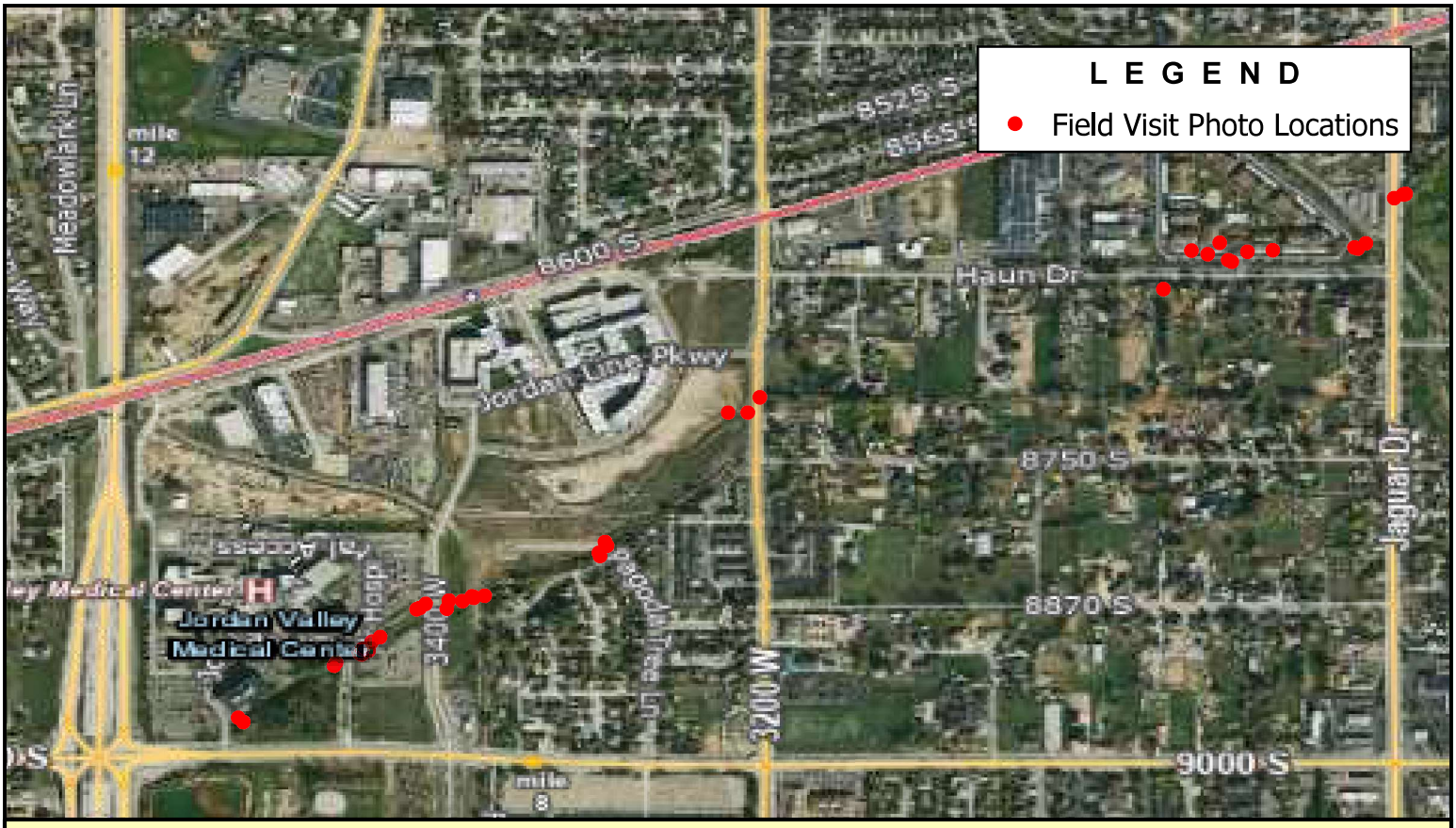
Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 45

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022



Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	3200 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 46

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES	3200 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 47

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Pagoda Grove Circle	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 48

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Dowstream

BOWEN COLLINS & ASSOCIATES

Pagoda Grove Circle

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

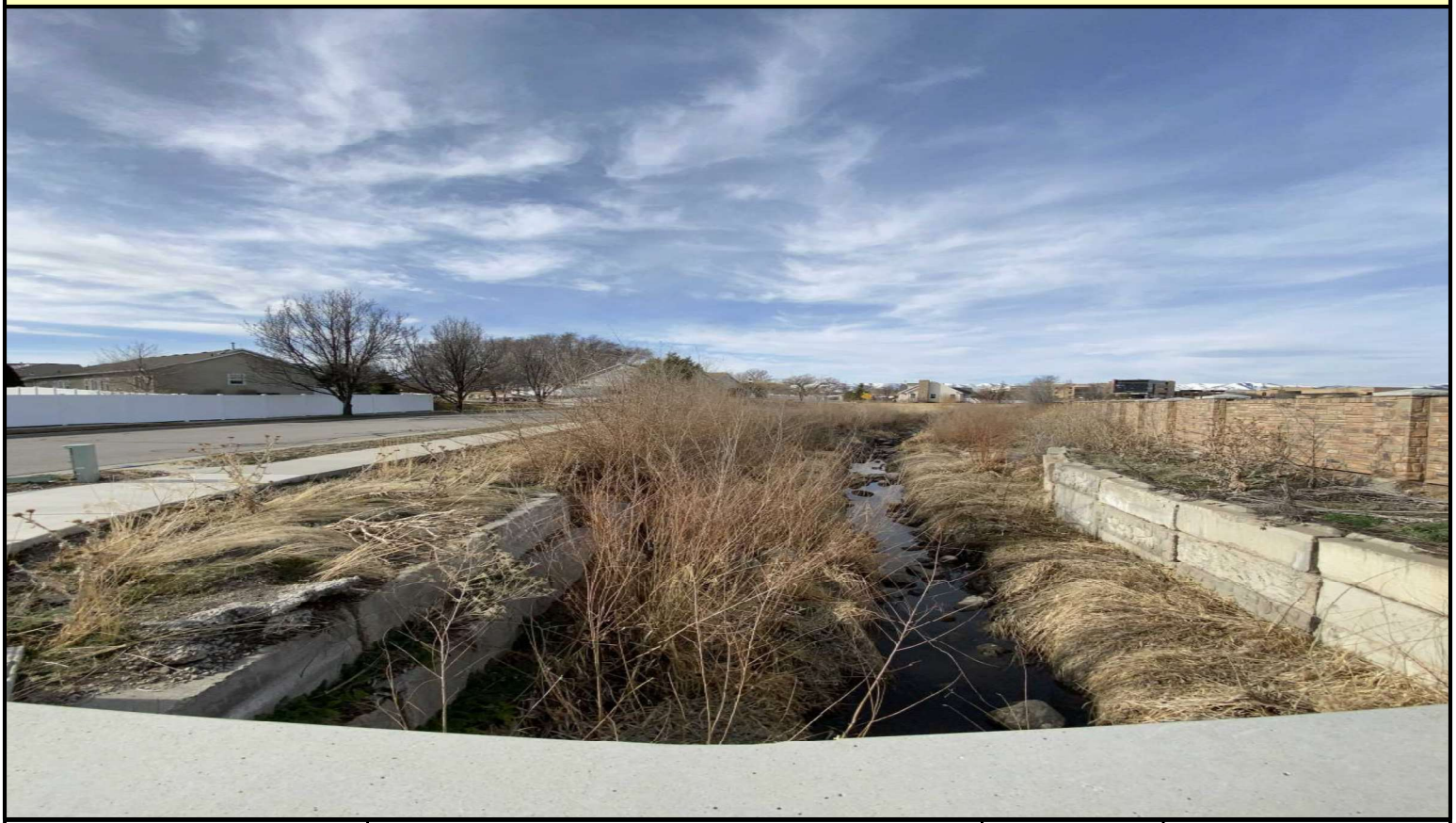
PHOTOGRAPH NO. 49

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Pagoda Grove Circle	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 50

Note: Looking Upstream



BOWEN COLLINS & ASSOCIATES	Pagoda Grove Circle	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 51

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Utah Lake Distributing Canal	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 52

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES	Utah Lake Distributing Canal	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 53

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Utah Lake Distributing Canal	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 54

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Utah Lake Distributing Canal	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 55

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES	Utah Lake Distributing Canal	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 56

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	3400 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 57

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES	3400 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 58

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES	3400 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 59

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES	3400 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 60

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	3400 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 61

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Jordan Valley Hospital

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 62

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

Jordan Valley Hospital

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 63

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Jordan Valley Hospital	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 64

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Jordan Valley Hospital

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 65

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	3590 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 66

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

3590 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 67

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	3590 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 68

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	3590 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 69

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

3590 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 70

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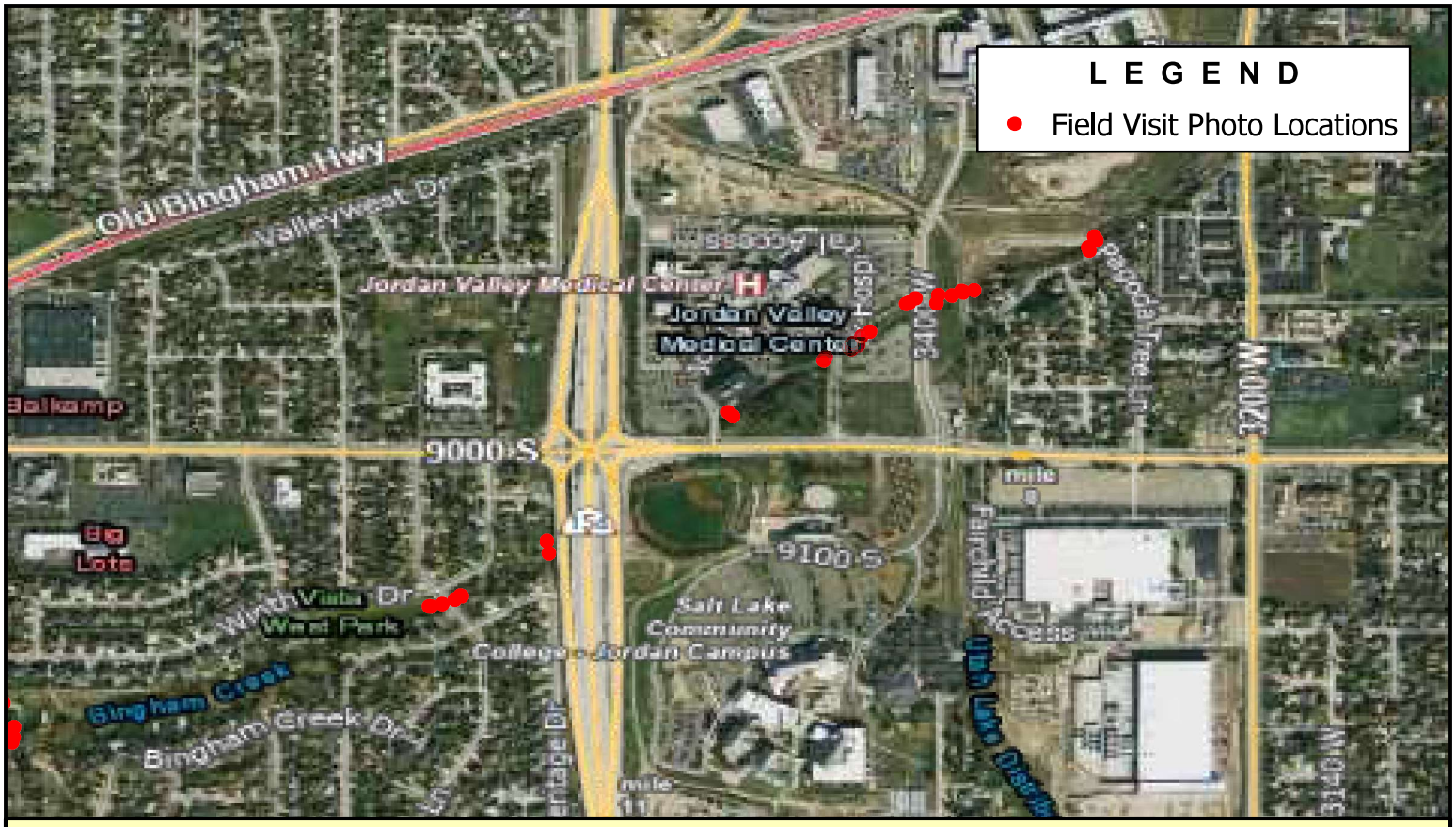

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Bangerter Highway

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 71

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

Bangerter Highway

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 72

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Bangerter Highway	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 73

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES	Bangerter Highway	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 74

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Judd Ln

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 75

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES	Judd Ln	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 76

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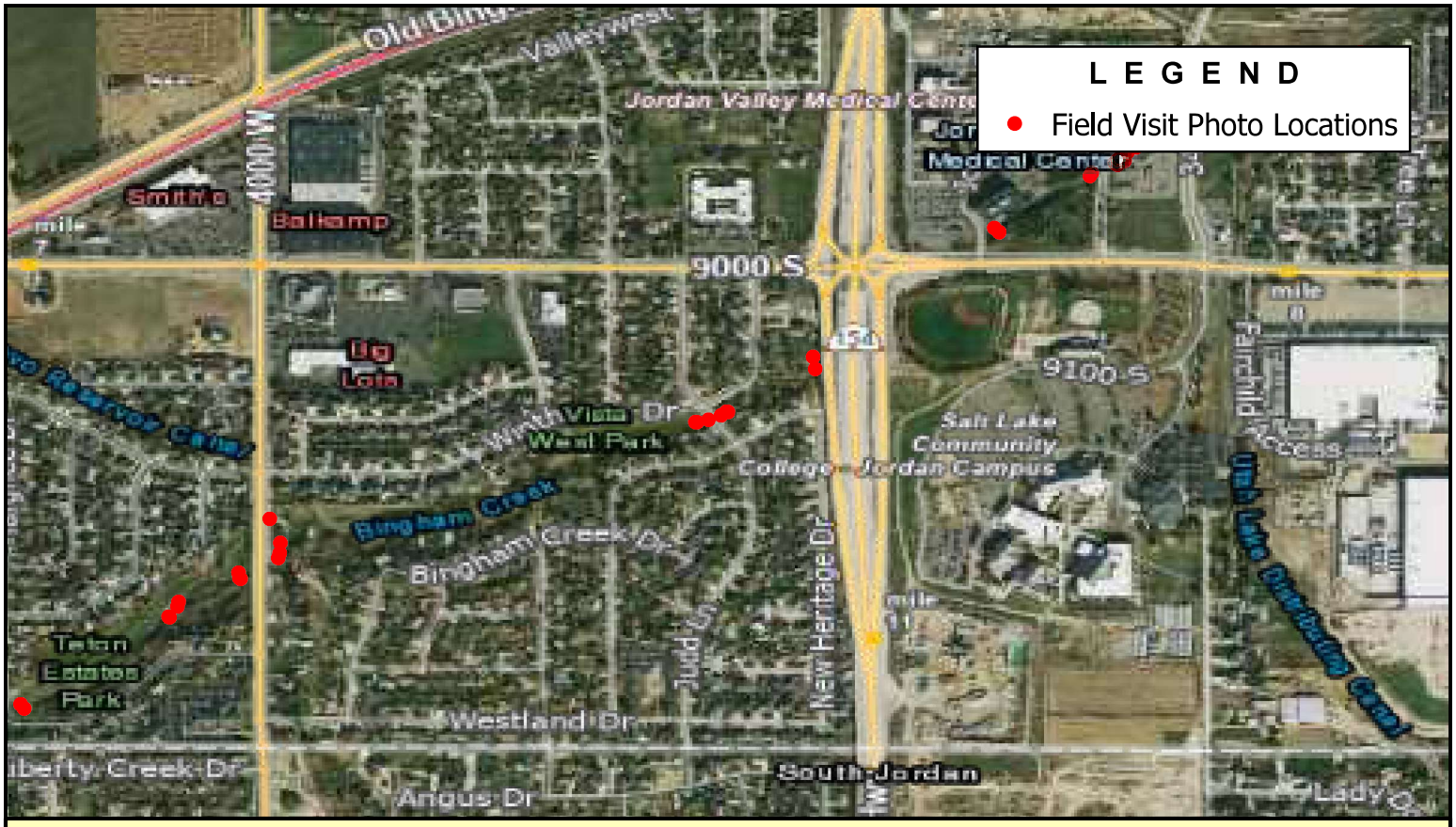

Note: Looking at Cuvlert

BOWEN COLLINS & ASSOCIATES	Judd Ln	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 77

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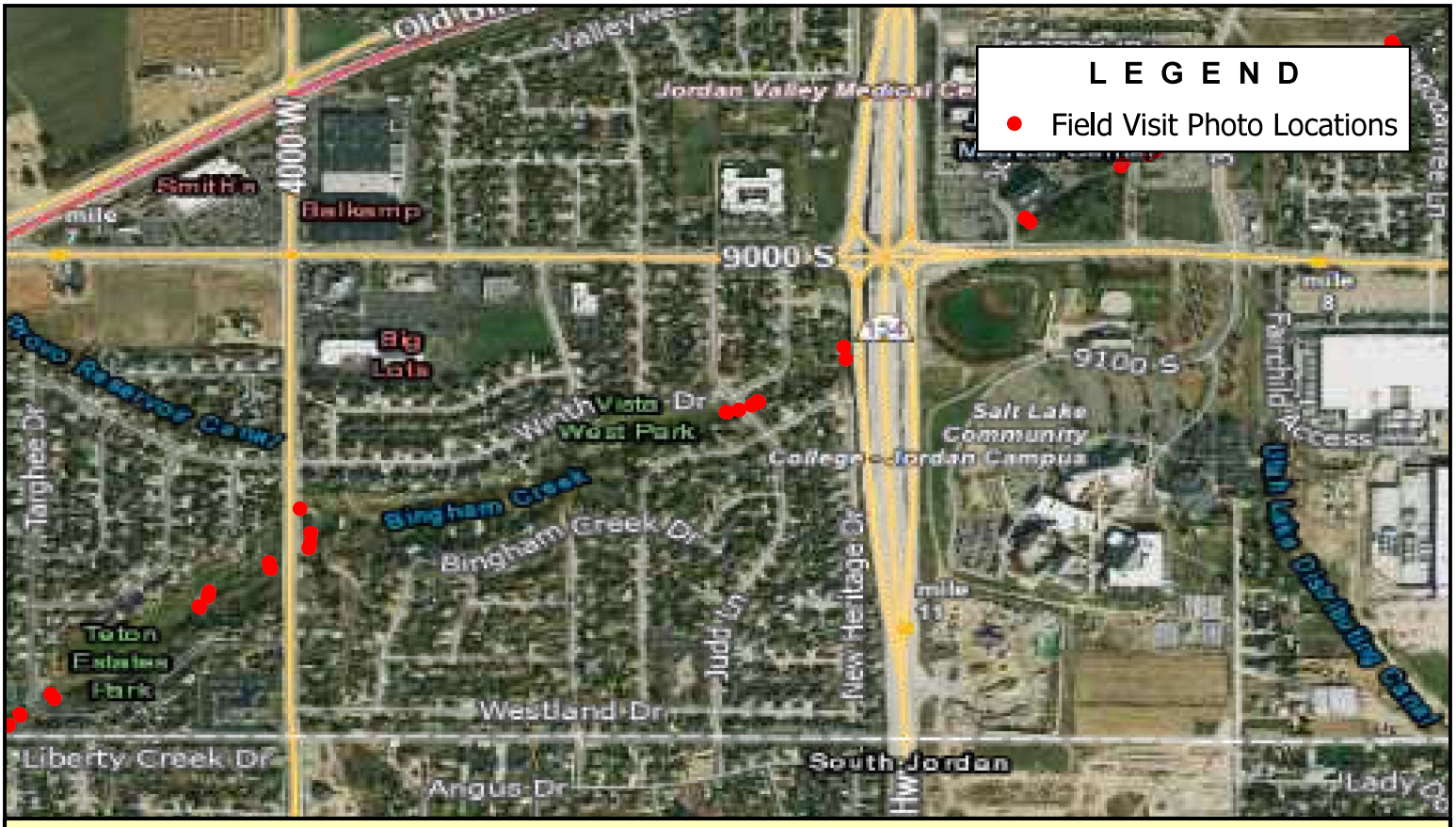

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Judd Ln	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 78

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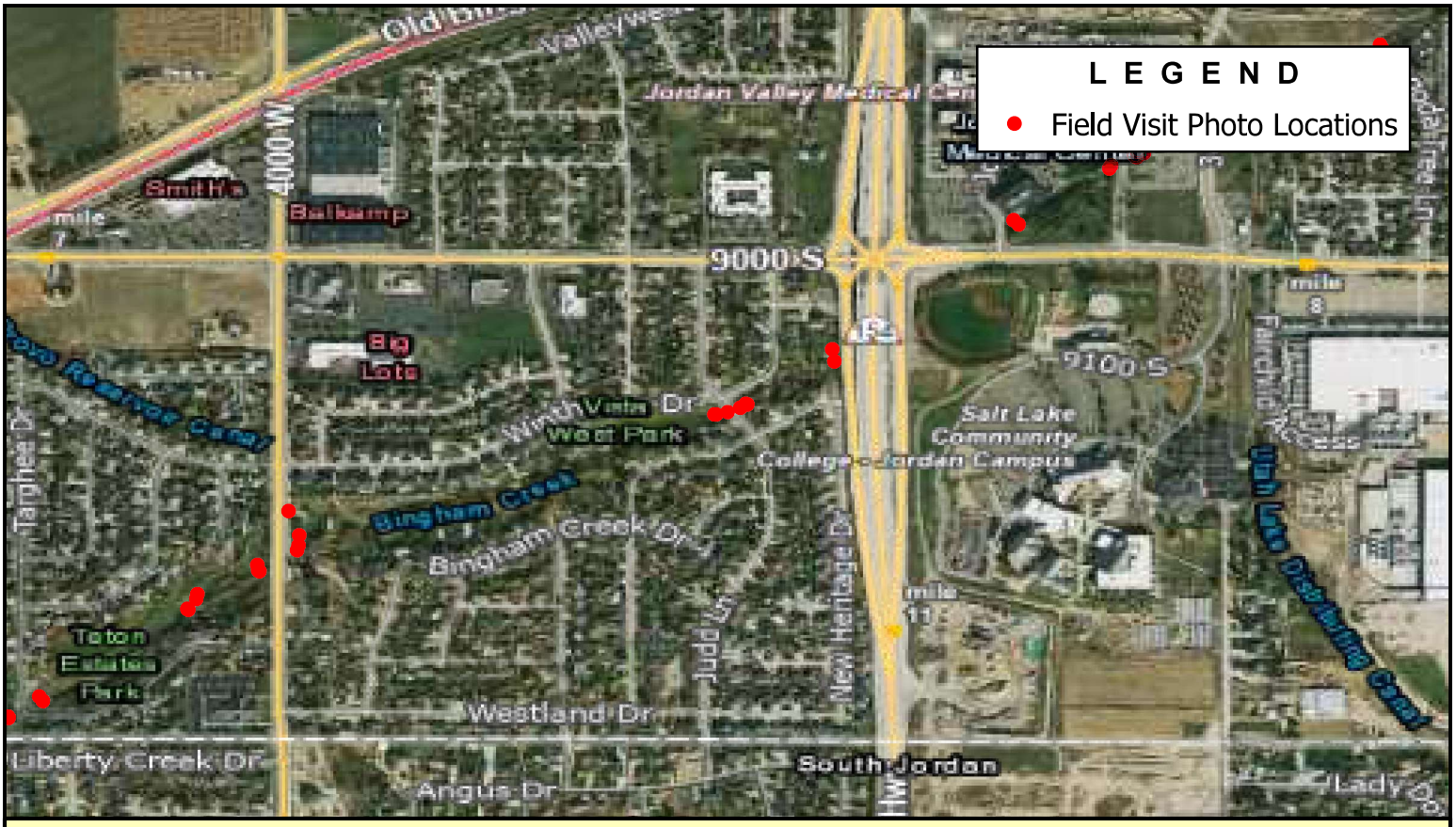

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Judd Ln

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 79

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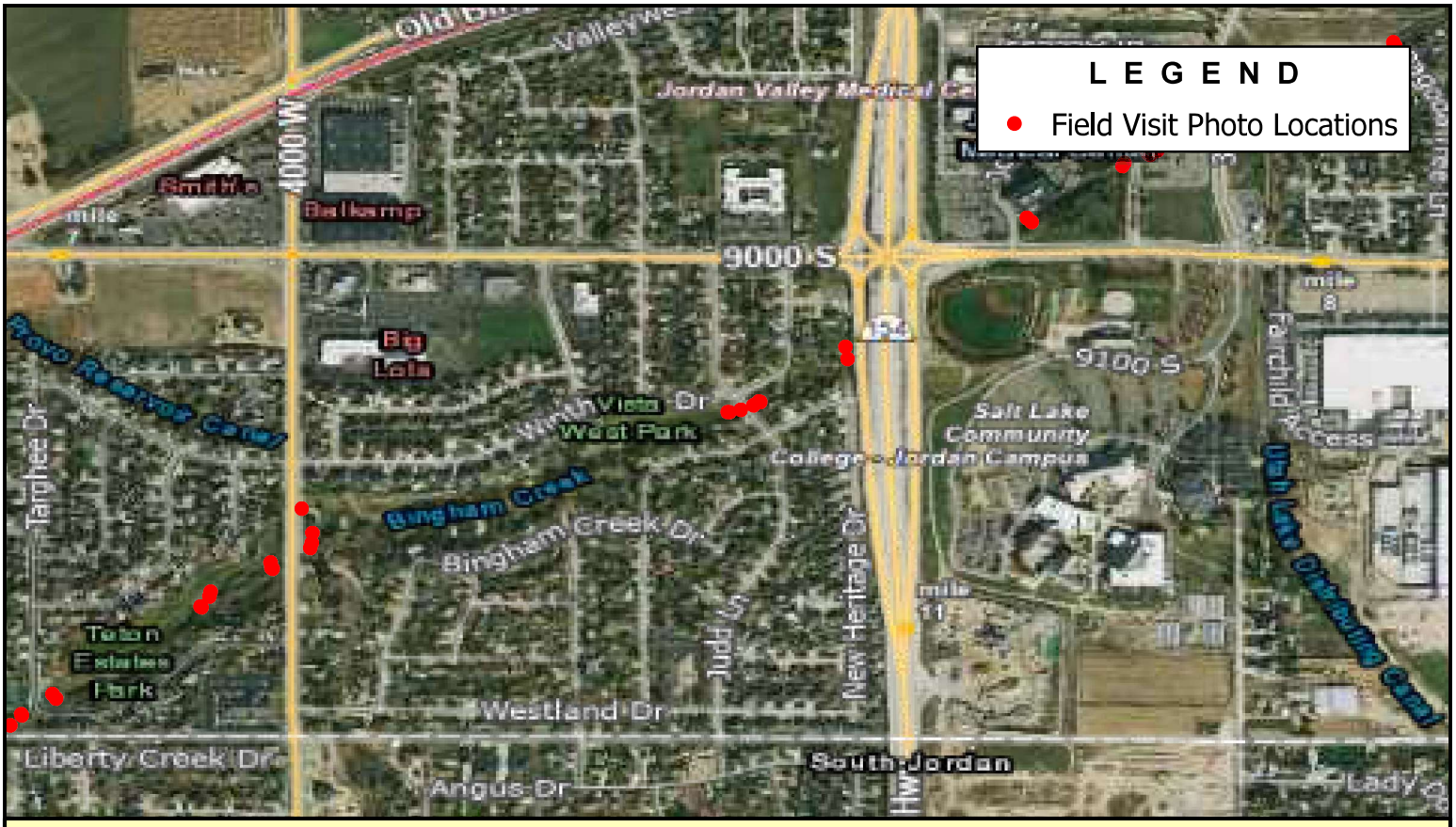

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Judd Ln

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 80

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

4000 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 81

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

4000 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 82

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES	4000 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 83

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

4000 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 84

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	4000 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 85

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES	4000 W	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 86

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

4000 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 87

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Welby Jacobs Canal Crossing	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 88

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

Welby Jacobs Canal Crossing

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 89

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Welby Jacobs Canal Crossing

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 90

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Welby Jacobs Canal Crossing

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 91

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Welby Jacobs Canal Crossing

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 92

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Note: Looking at CMP

BOWEN COLLINS & ASSOCIATES	Laurel Ridge Dr.	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 93

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES	Laurel Ridge Dr.	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 94

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Laurel Ridge Dr.

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 95

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Note: Looking at CMP

BOWEN COLLINS & ASSOCIATES	Laurel Ridge Dr.	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 96

Note: Looking at CMP

BOWEN COLLINS & ASSOCIATES	Laurel Ridge Dr.	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 97

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Note: Looking at Bridge

BOWEN COLLINS & ASSOCIATES	Private Bridge	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 98

Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

Private Bridge

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 99

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Note: Looking at Bridge

BOWEN COLLINS & ASSOCIATES	Private Bridge	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 100

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Private Bridge

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 101

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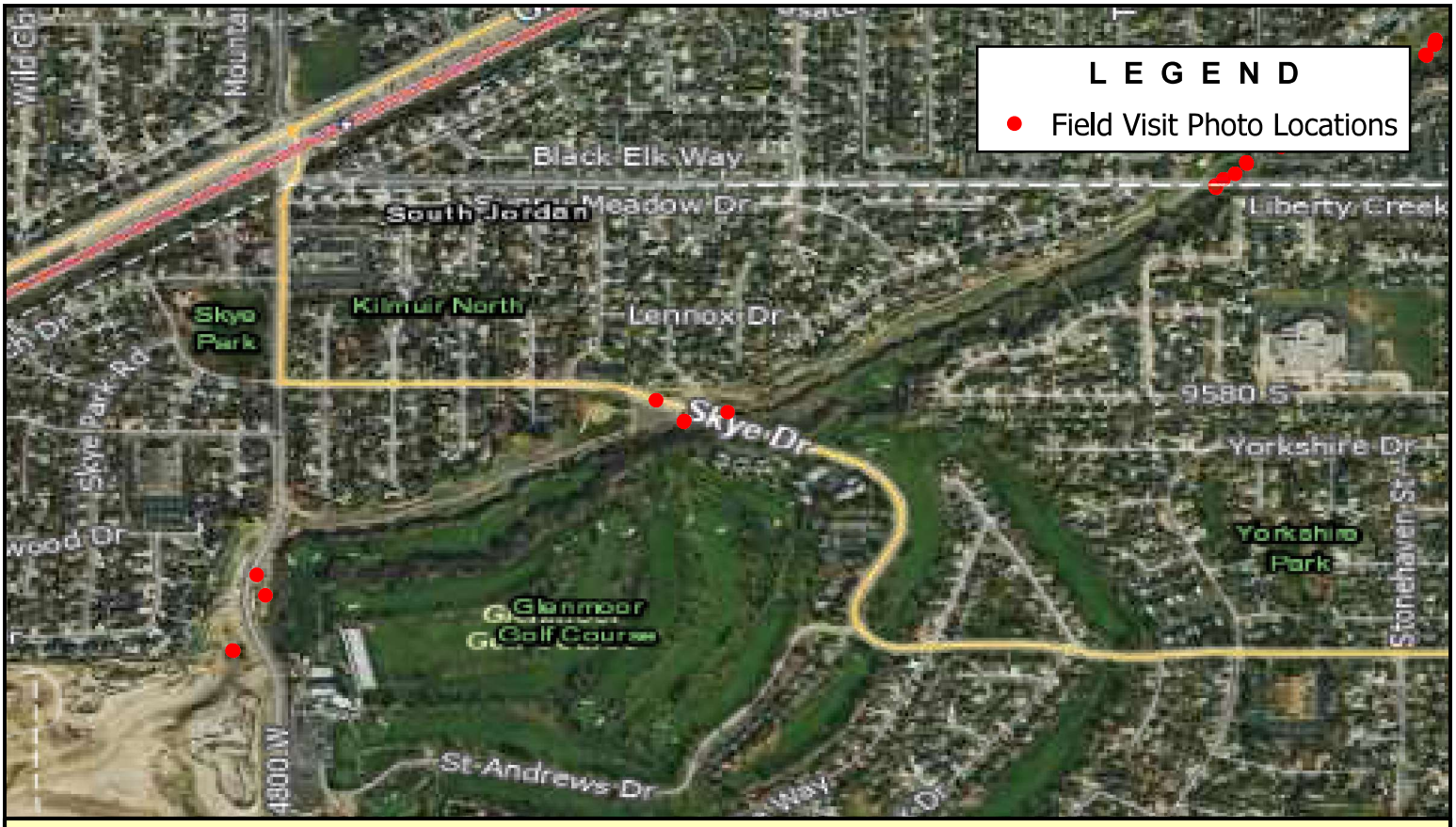

Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

Skye Dr

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 102

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Skye Dr	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 103

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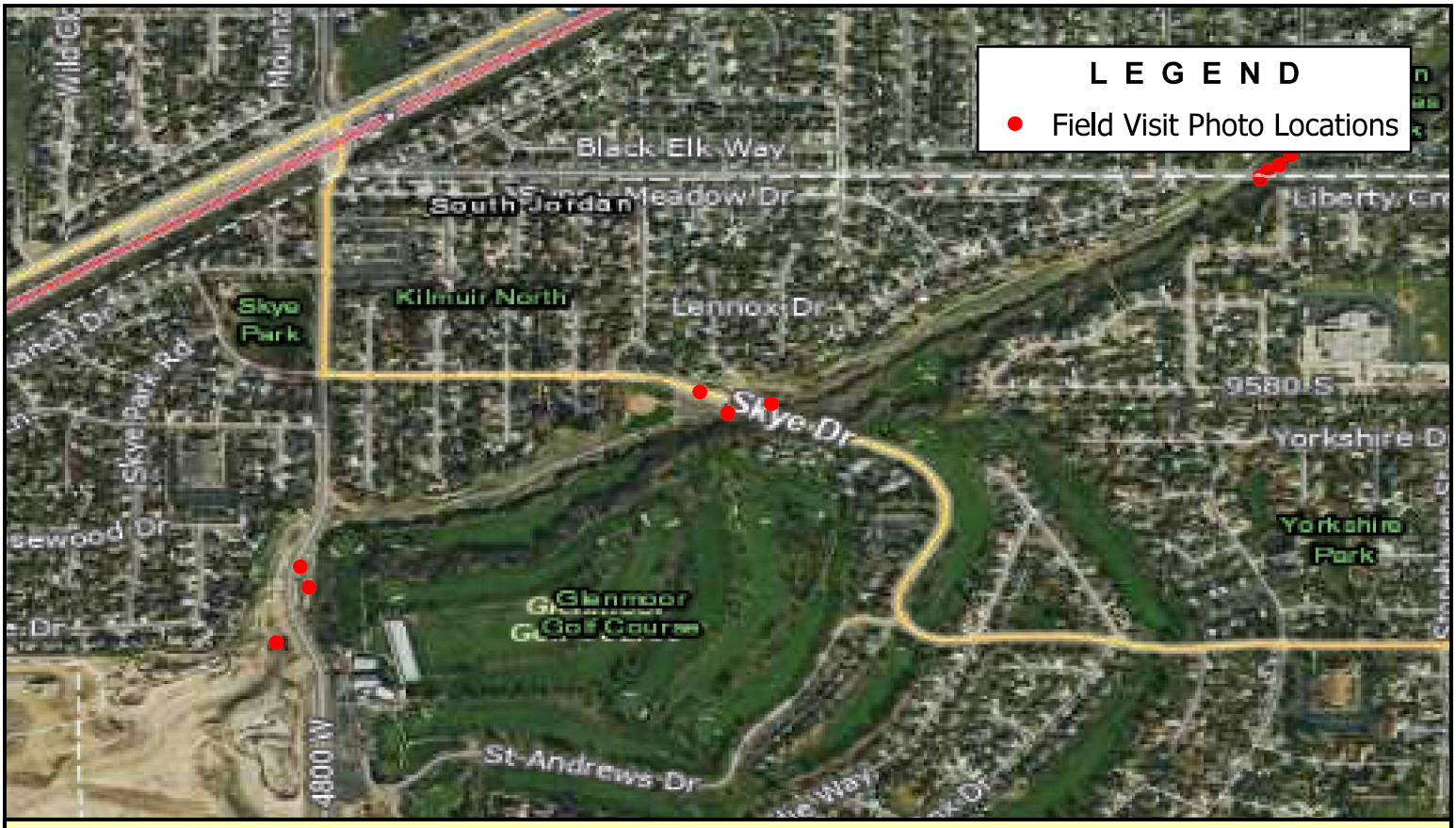

Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES	Skye Dr	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 104

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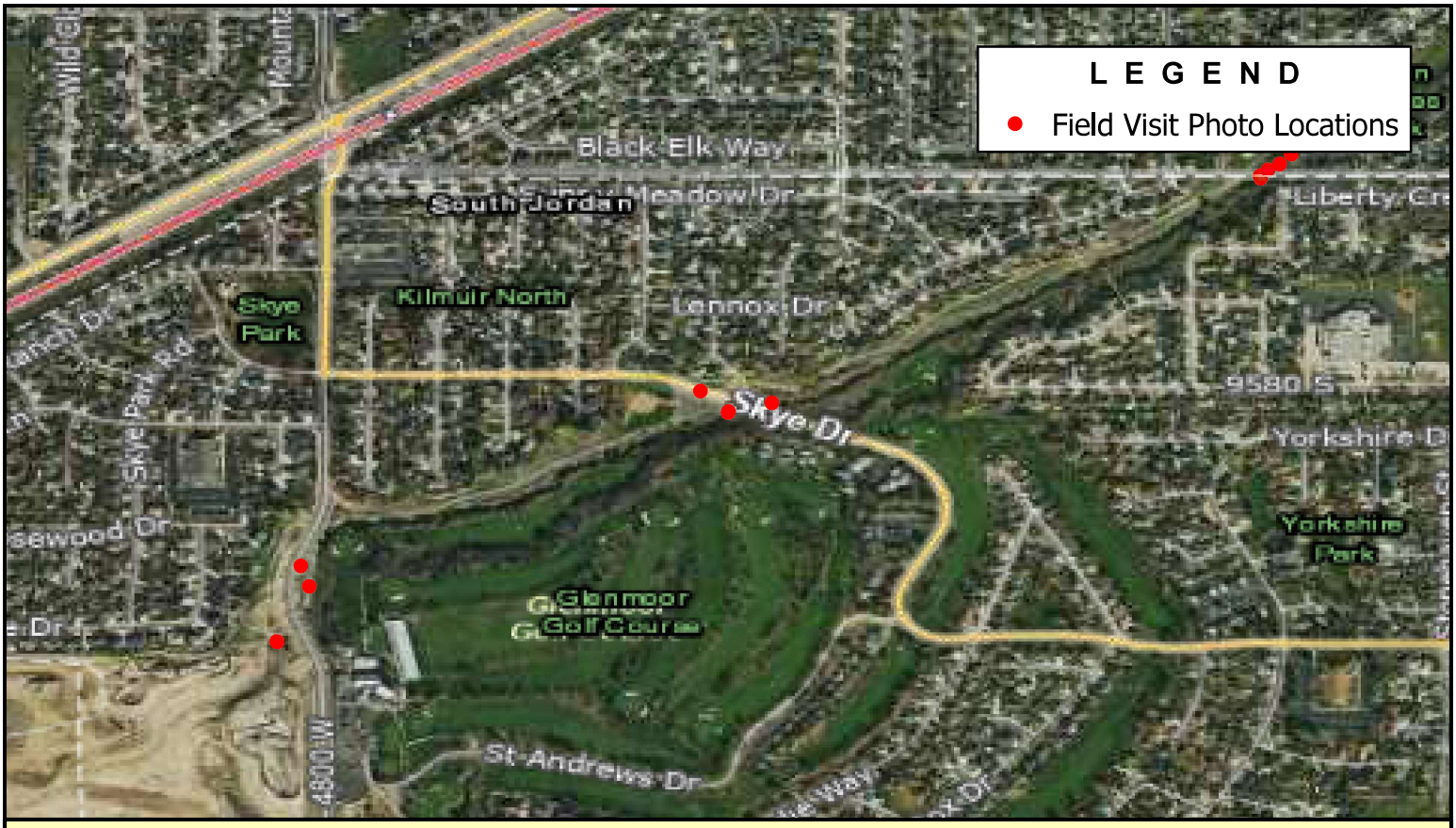

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Skye Dr

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 105

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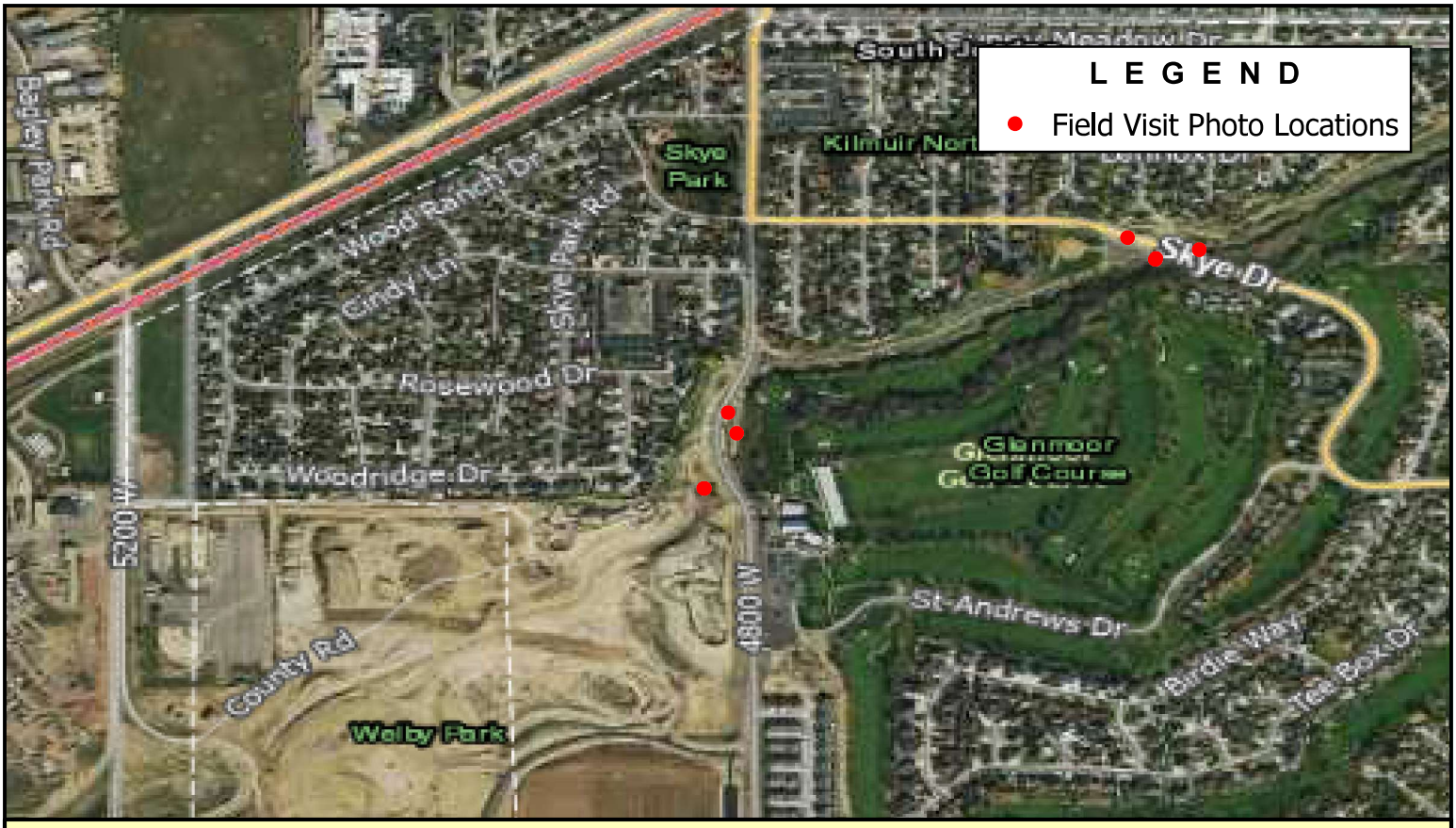

Note: Looking at culvert

BOWEN COLLINS & ASSOCIATES

4800 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 106

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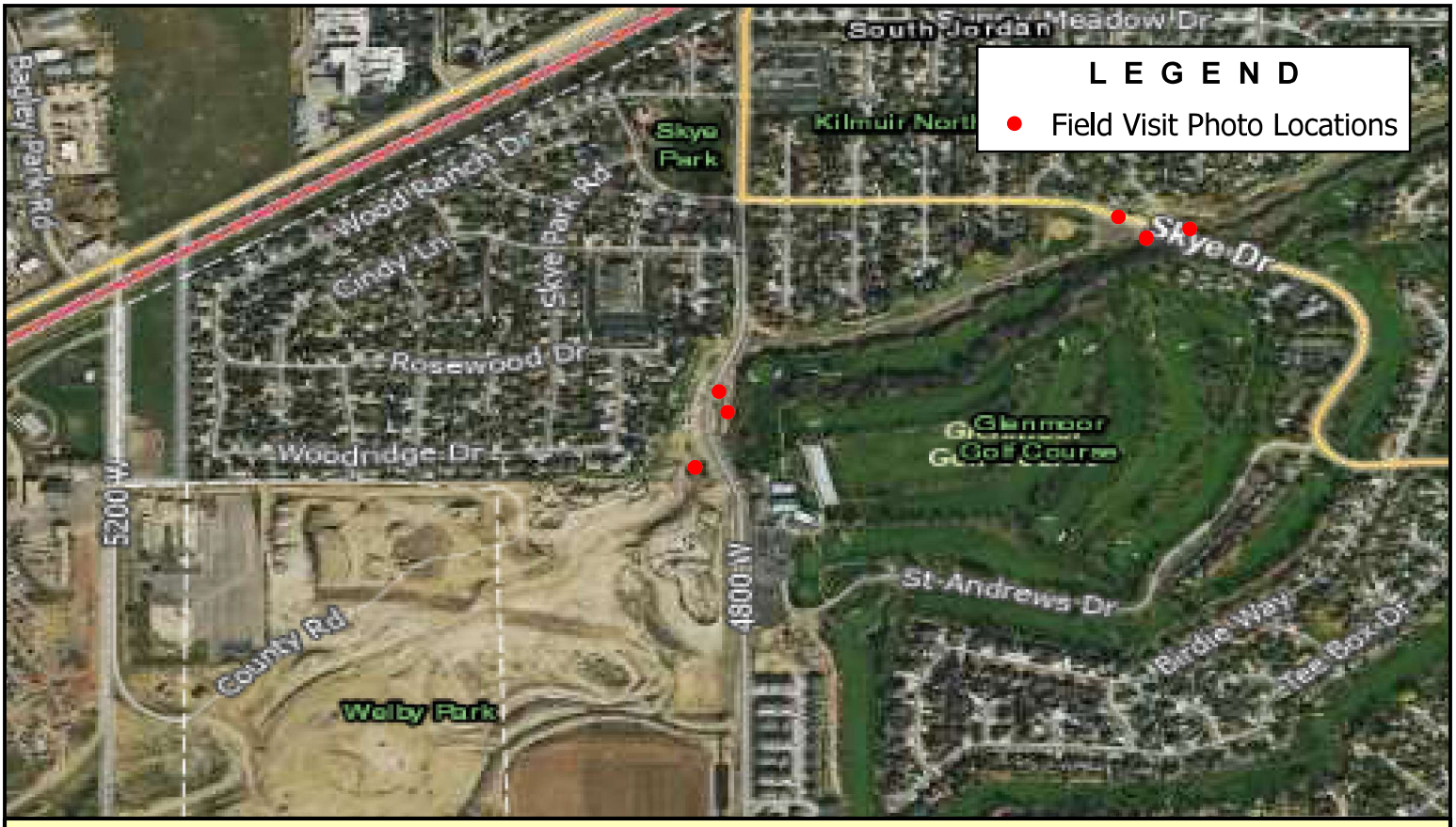
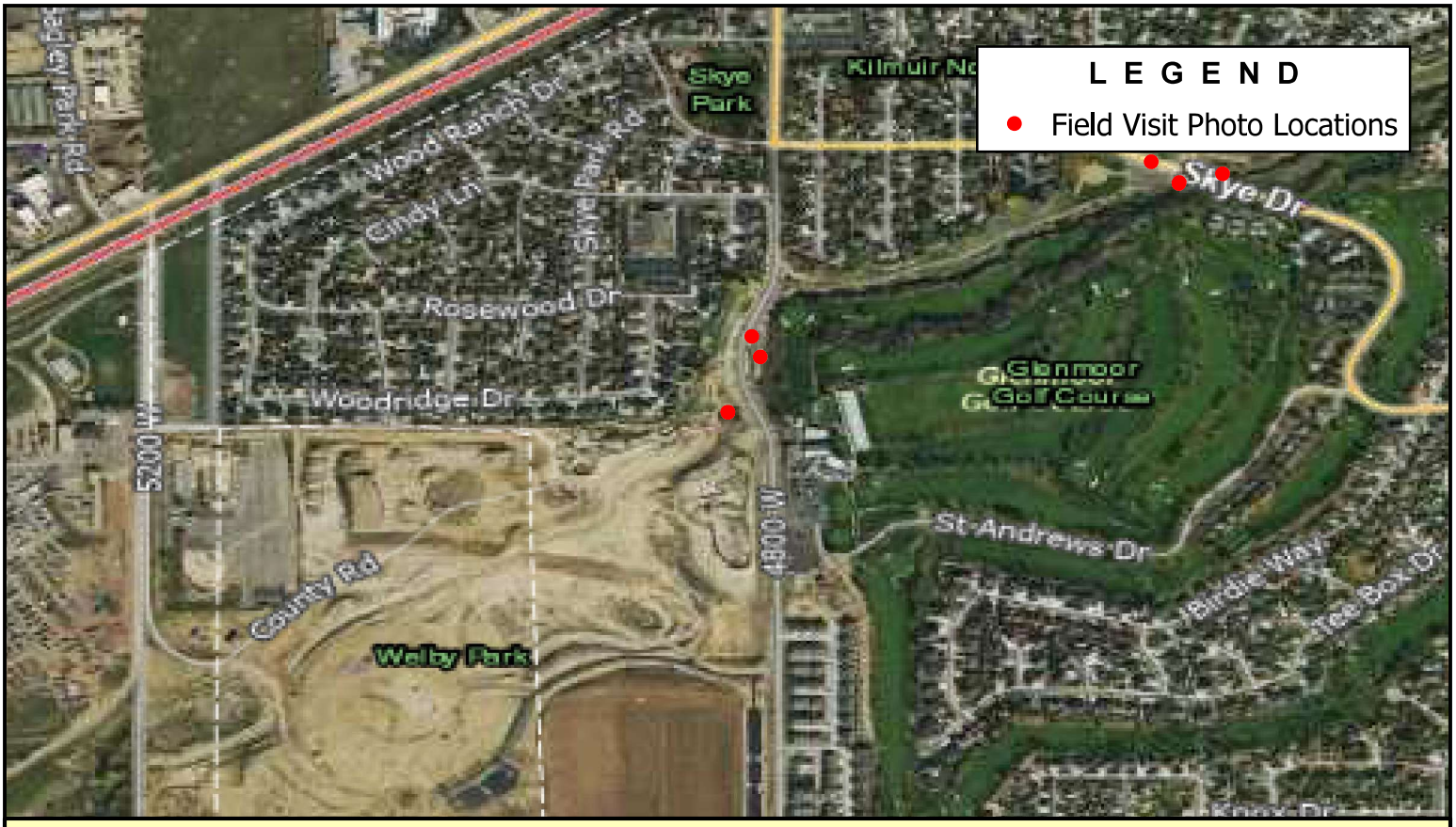


Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES	4800 W Salt Lake County Flood Control Bingham Creek SWCC Study	NORTH:	SCALE: 0 500 1,000 Feet PHOTOGRAPH NO. 107

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022



Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

4800 W

Salt Lake County Flood Control

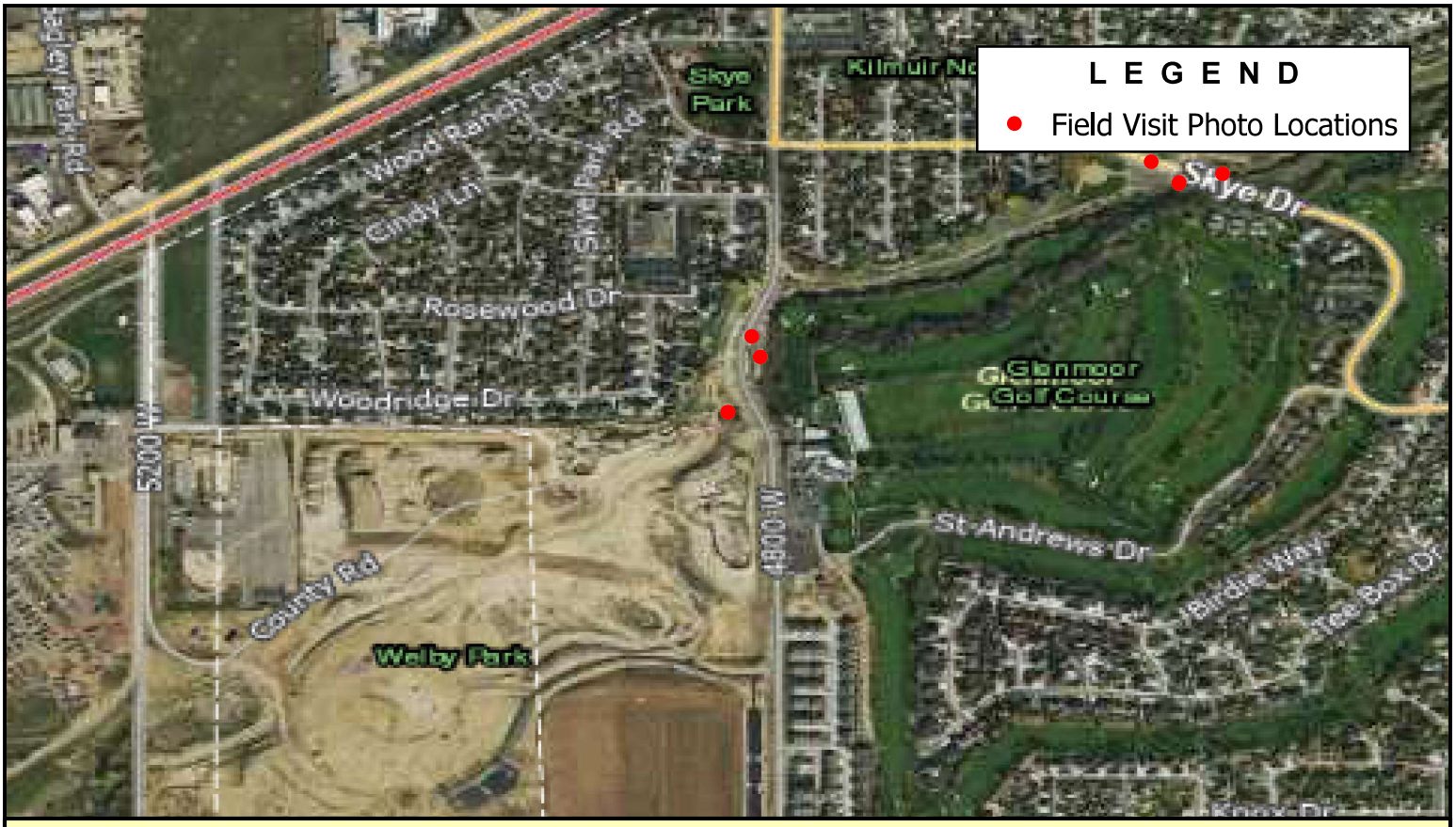
Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 108

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022



Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

4800 W

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 109

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Dirt Road

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 110

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES	Dirt Road	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 111

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking Upstream

Dirt Road

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 112

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Note: Looking at Railroad

BOWEN COLLINS & ASSOCIATES	Railroad	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 113

Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

Railroad

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 114

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: Looking at Railroad

BOWEN COLLINS & ASSOCIATES	Railroad	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 115

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Railroad

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 116

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Note: Looking at Bridge

BOWEN COLLINS & ASSOCIATES	Mountain View Corridor- Northbound Bridge	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 117

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

Mountain View Corridor- Northbound Bridge

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 118

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Note: Looking at Bridge

BOWEN COLLINS & ASSOCIATES	Mountain View Corridor- Southbound Bridge	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Bingham Creek SWCC Study		PHOTOGRAPH NO. 119

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Mountain View Corridor- Southbound Bridge

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 120

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Note: Looking at Bridge

BOWEN COLLINS & ASSOCIATES

Pedestrian Structure West of Mountain Corridor

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 121

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Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Baccus Highway

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 122

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Note: Looking Downstream

BOWEN COLLINS & ASSOCIATES

Baccus Highway

Salt Lake County Flood Control

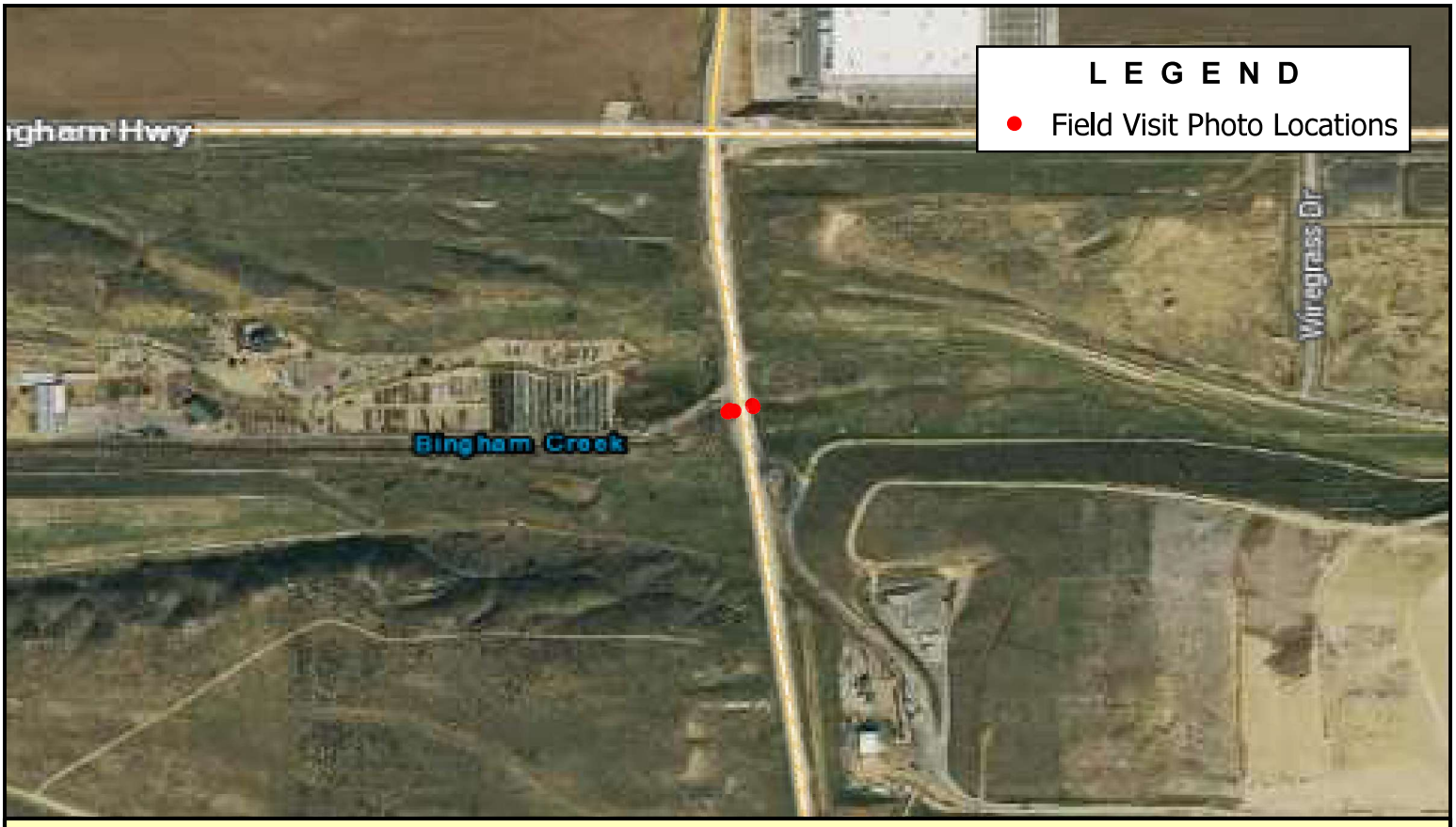
Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 123

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022



Note: Looking at Culvert

BOWEN COLLINS & ASSOCIATES

Bacchus Highway

Salt Lake County Flood Control

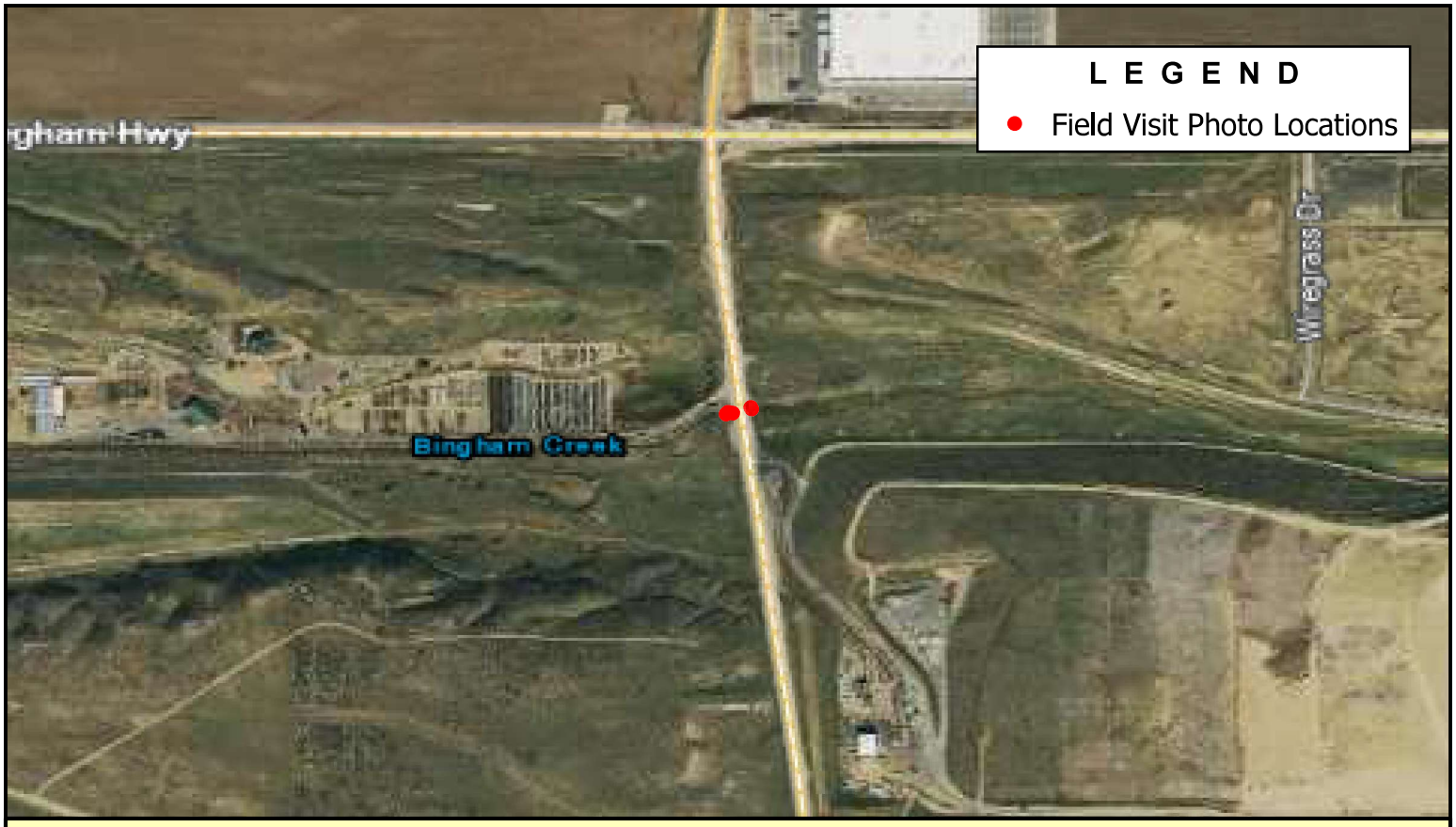
Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 124

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022



Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Bacchus Highway

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 125

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Note: Looking Upstream

BOWEN COLLINS & ASSOCIATES

Bacchus Highway

Salt Lake County Flood Control

Bingham Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 126

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_BinghamCreek_Photos.aprx tjorgensen 7/21/2022

Note: End of Wood Hollow at Jordan River (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Wood Hollow

Salt Lake County Flood Control
Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

Note: Wood Hollow Overflow Pond outlet structure (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Overflow Pond

Salt Lake County Flood Control
Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

Note: Wood Hollow Overflow Pond outlet structure and emergency spillway (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Overflow Pond

Salt Lake County Flood Control
Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

Note: Discharge of Wood Hollow into overflow pond (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Wood Hollow

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

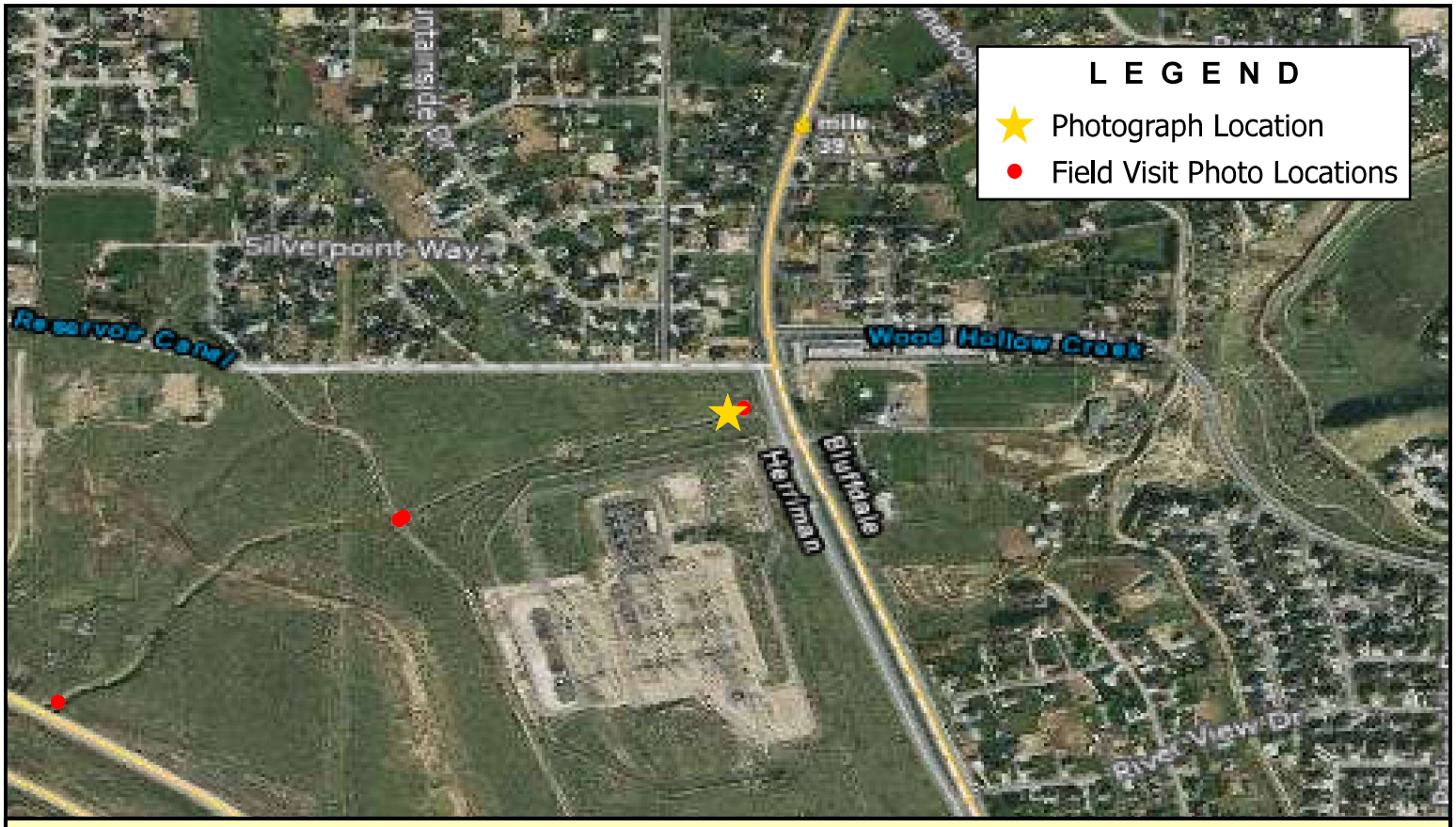
SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\General Figures.aprx tjorgensen 7/21/2022

Note: Inlet to Wood Hollow Piped portion at Redwood Rd. (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES	Redwood Rd.	NORTH:	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Wood Hollow & Wood Hollow South Photo Log SWCCS		PHOTOGRAPH NO.



Note: Wood Hollow Channel (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Wood Hollow

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

Note: Downstream end of Wood Hollow Welby Jacob Canal culvert (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Welby Jacob Canal

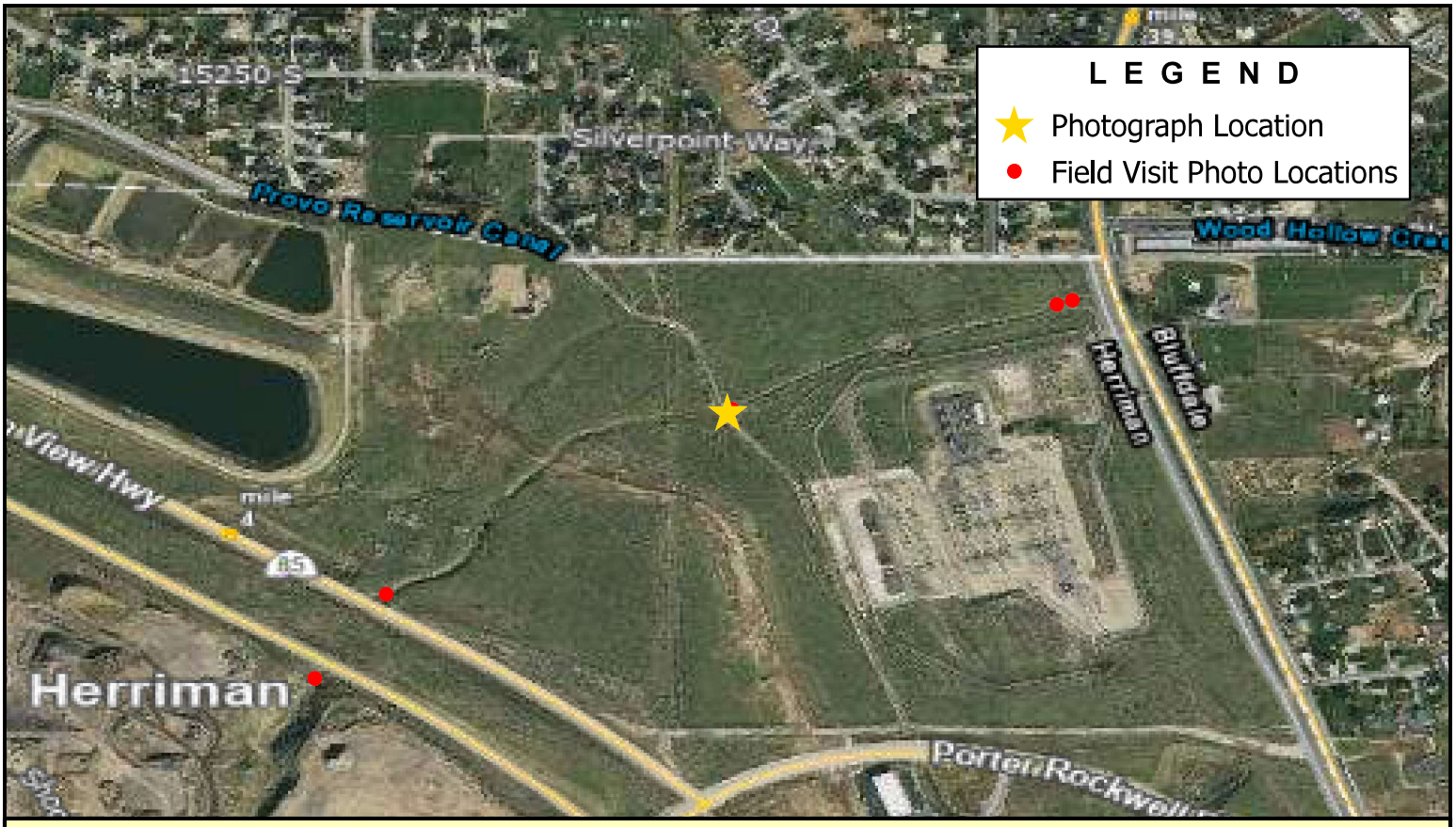
Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.



Note: Pipe culvert of Wood Hollow crossing over Welby Jacob Canal (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Welby Jacob Canal

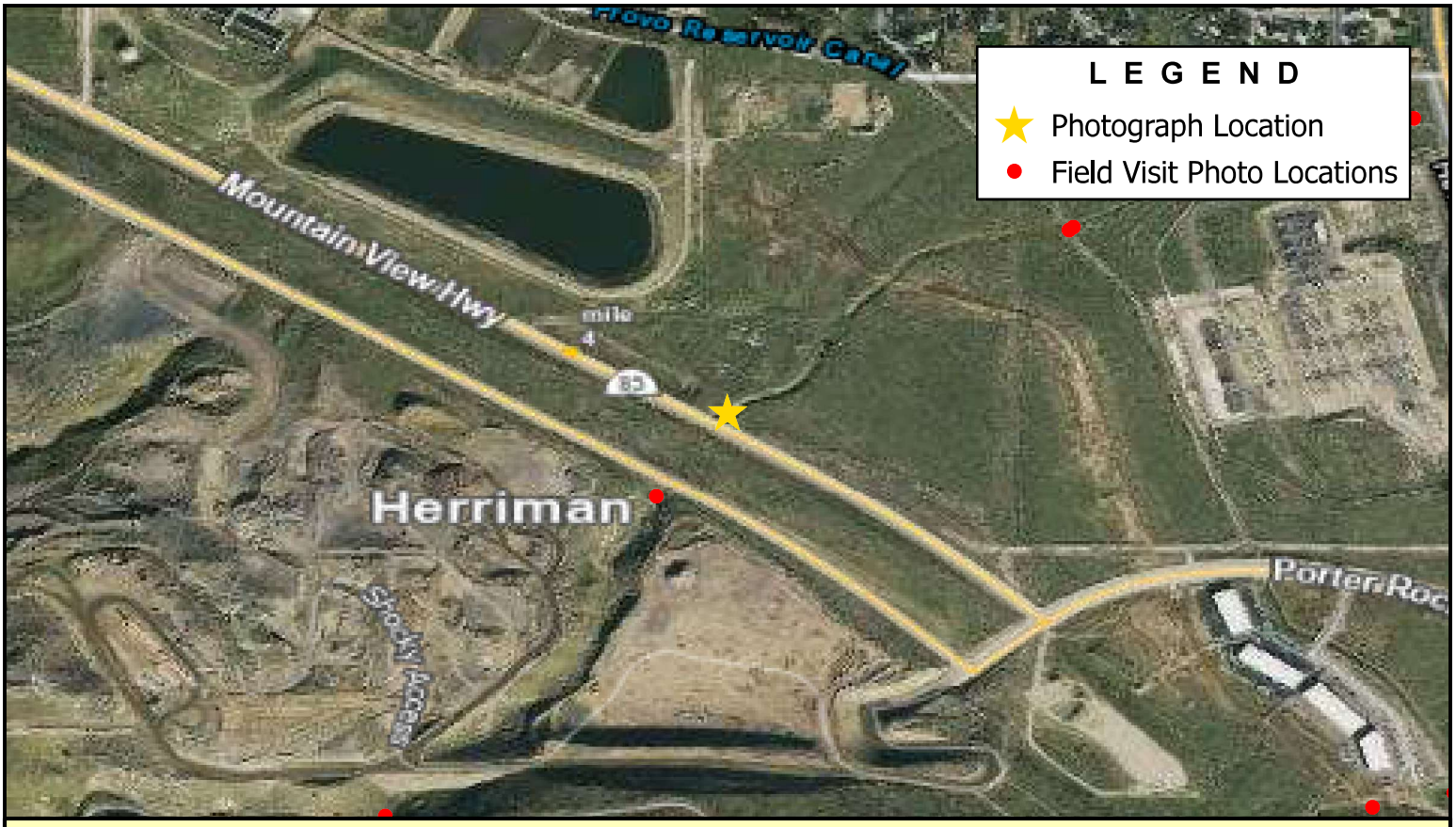
Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.



Note: Downstream end of Mountain View Corridor for Wood Hollow (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Mountain View Corridor

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

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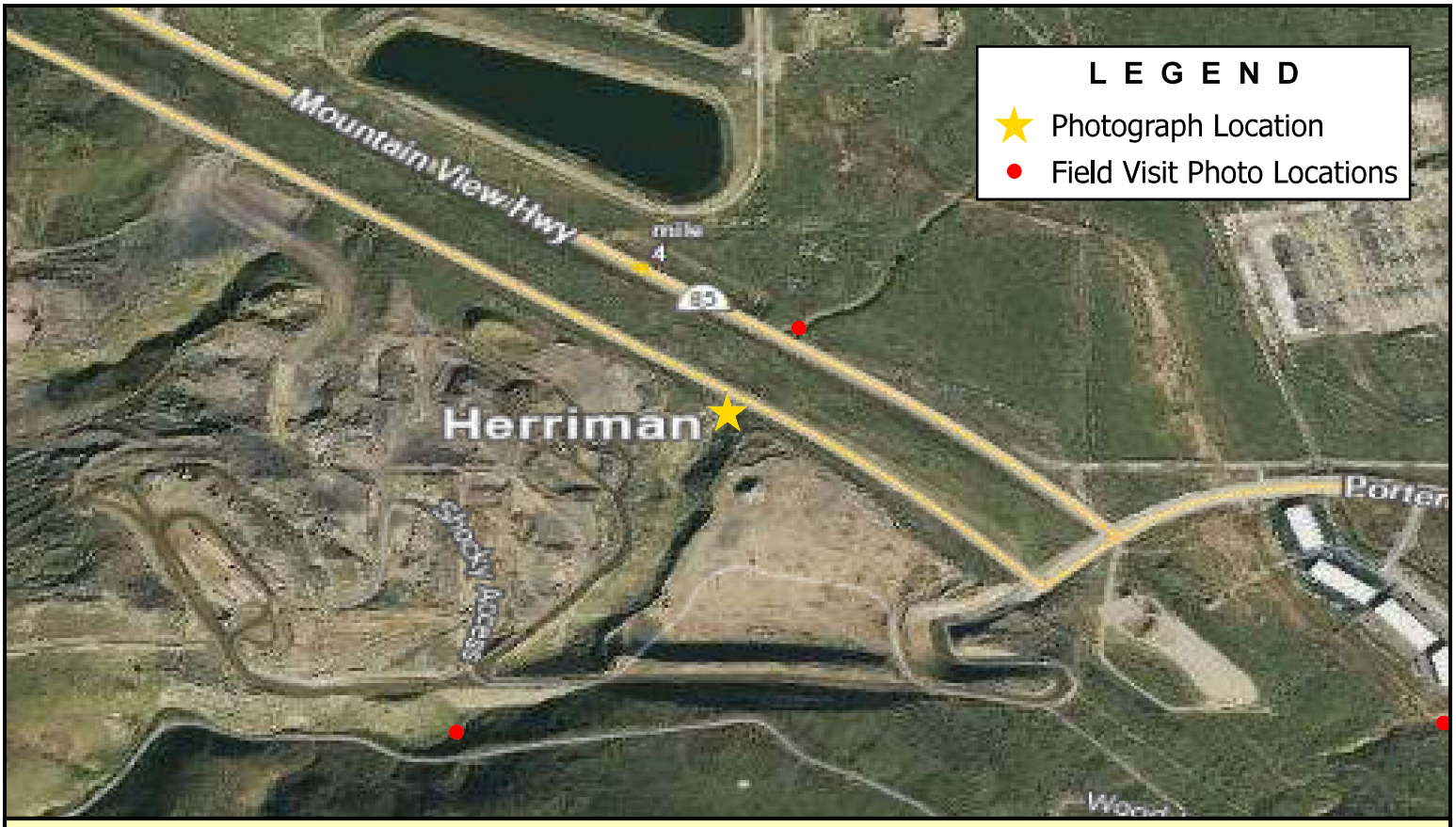

Note: Upstream end of Mountain View Corridor for Wood Hollow (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Mountain View Corridor

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

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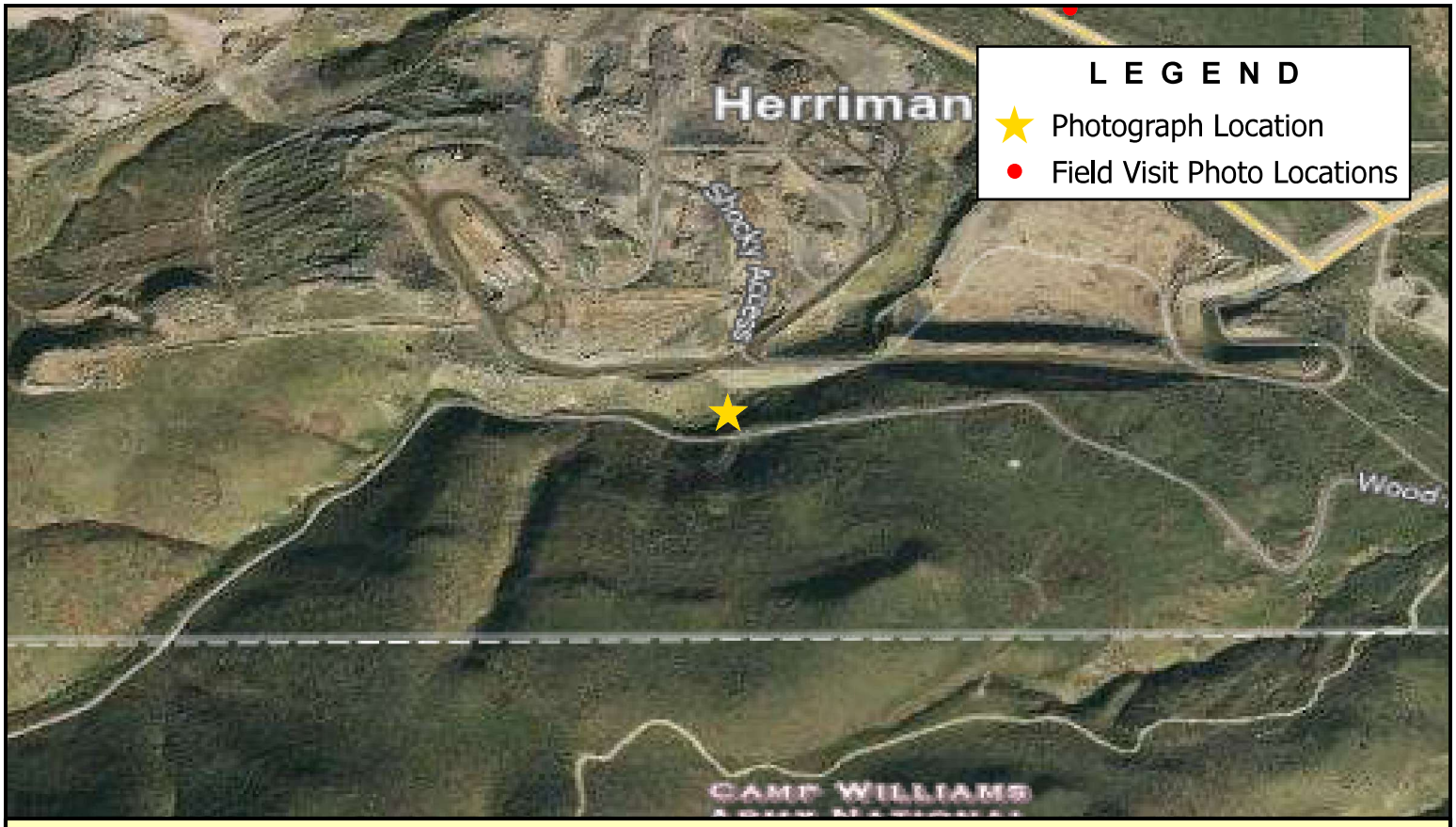

Note: Upstream end of access road culvert (Source: FEMA Study)

BOWEN COLLINS & ASSOCIATES

Access Road

Salt Lake County Flood Control
Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

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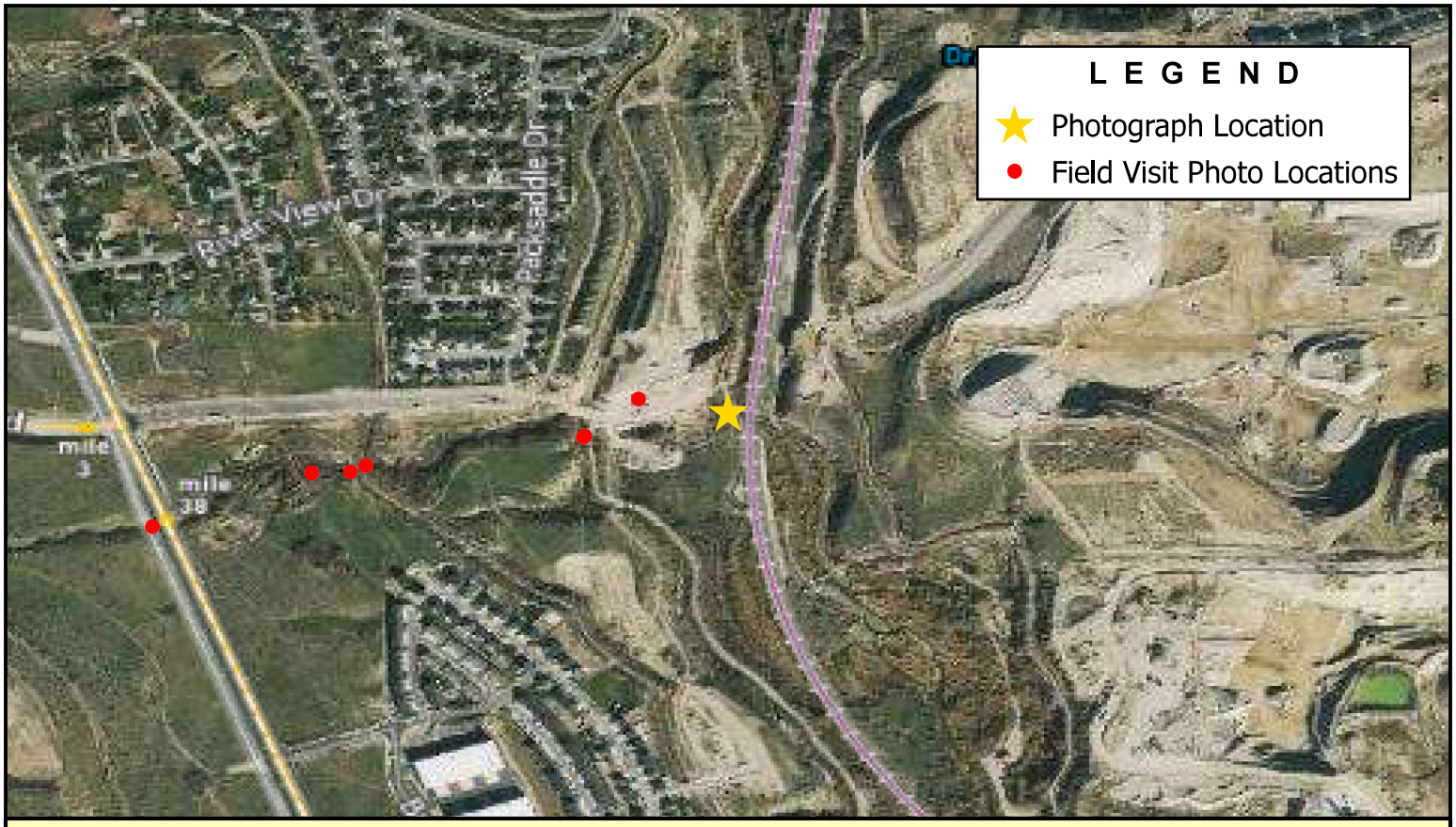

Note: South Jordan Canal at the end of Wood Hollow South

BOWEN COLLINS & ASSOCIATES

South Jordan Canal

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

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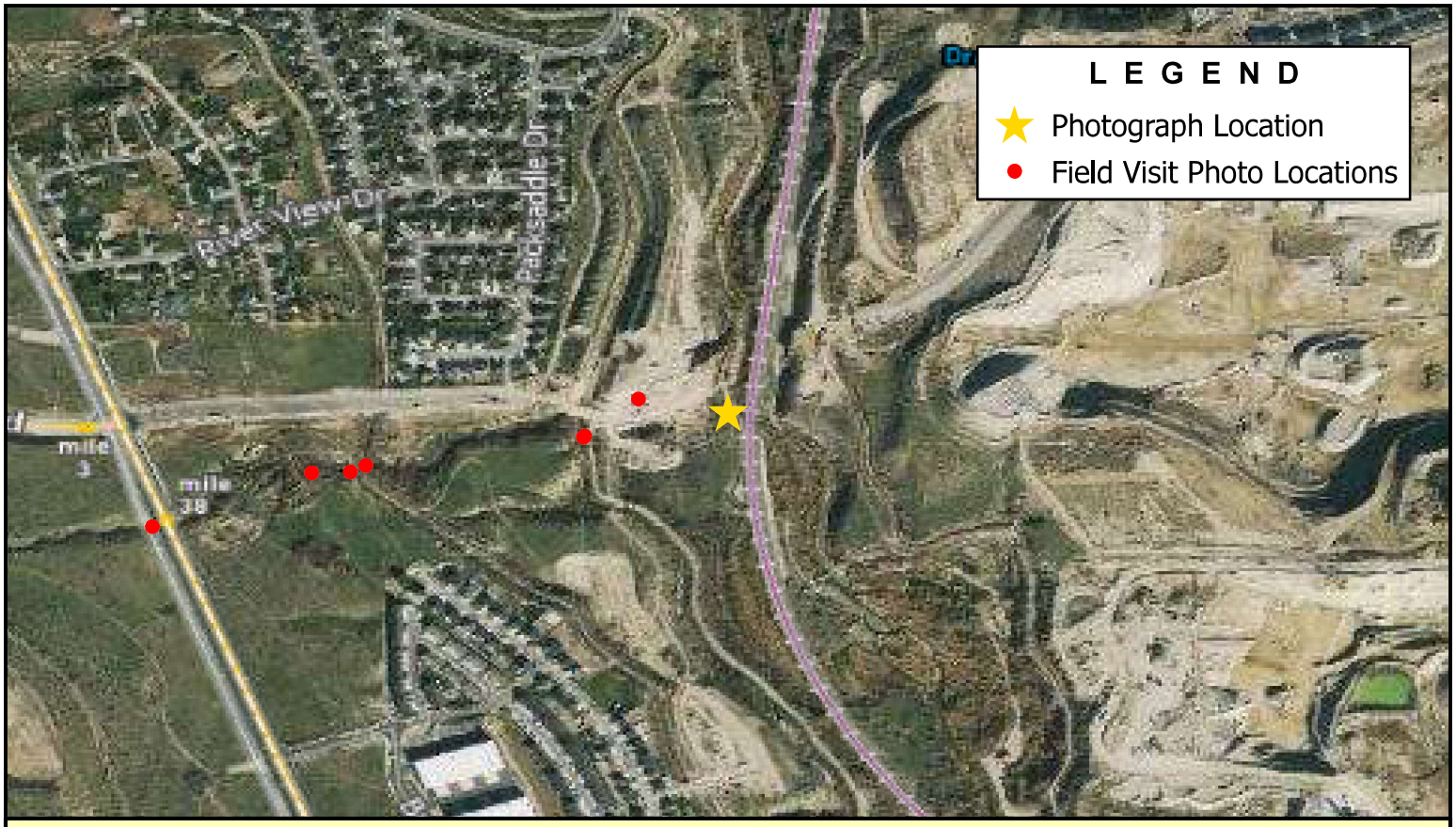

Note: Approximate discharge point of abandoned Wood Hollow South into South Jordan Canal

BOWEN COLLINS & ASSOCIATES

South Jordan Canal

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\General Figures.aprx tjorgensen 7/21/2022

Note: Abandoned portion of Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Wood Hollow South

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

Note: Discharge of Wood Hollow South into USLC

BOWEN COLLINS & ASSOCIATES

USLC

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

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Note: Headwall structure on USLC at discharge point of Wood Hollow South

BOWEN COLLINS & ASSOCIATES

USLC

Salt Lake County Flood Control
Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

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Note: Downstream end of ULDC culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

ULDC

Salt Lake County Flood Control
Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

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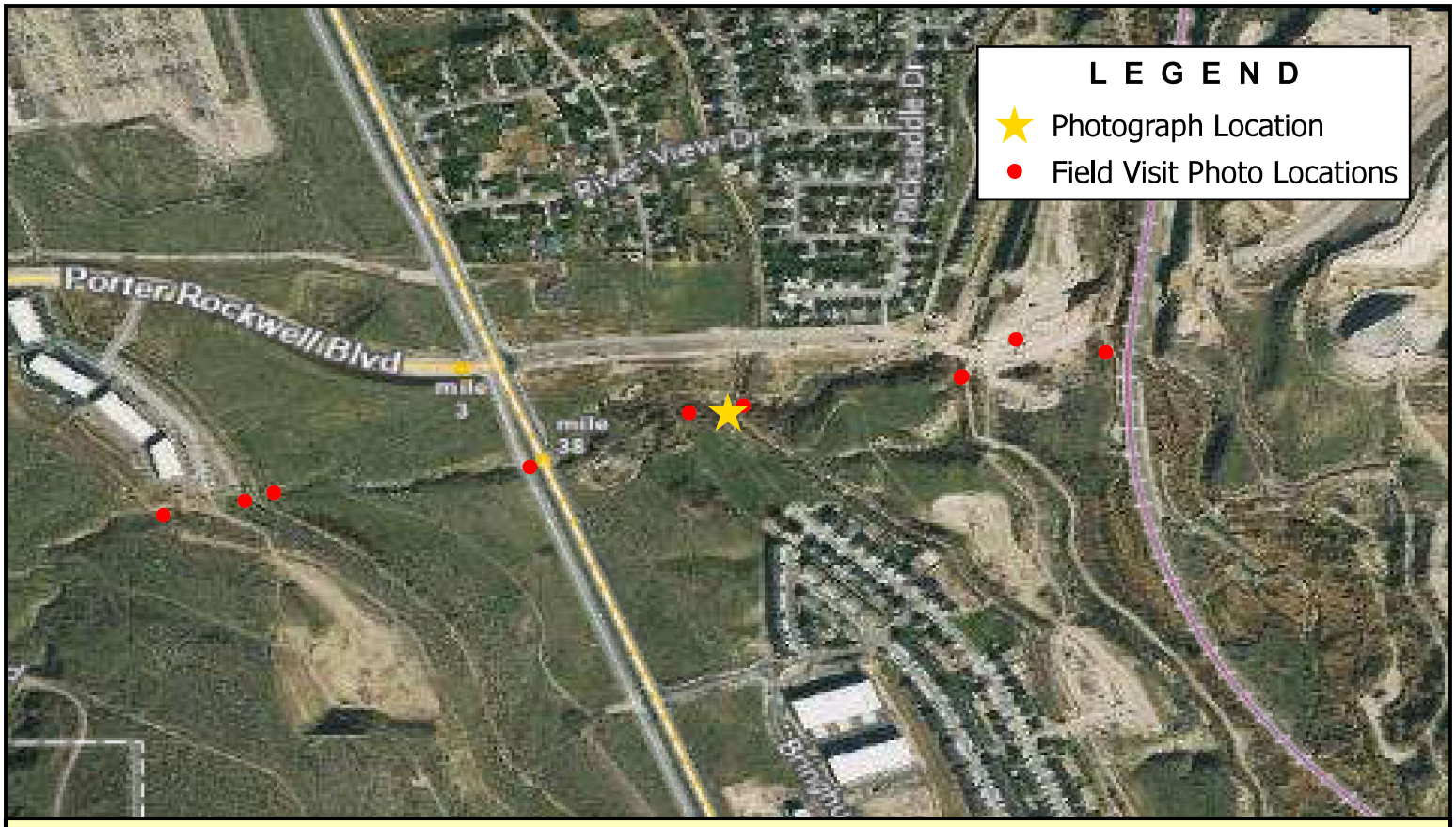


Note: Upstream end of ULDC culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

ULDC

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

Note: Downstream end of trail culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Trail

Salt Lake County Flood Control
Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

Note: Overhead view of Wood Hollow South crossing of Redwood Rd.

BOWEN COLLINS & ASSOCIATES

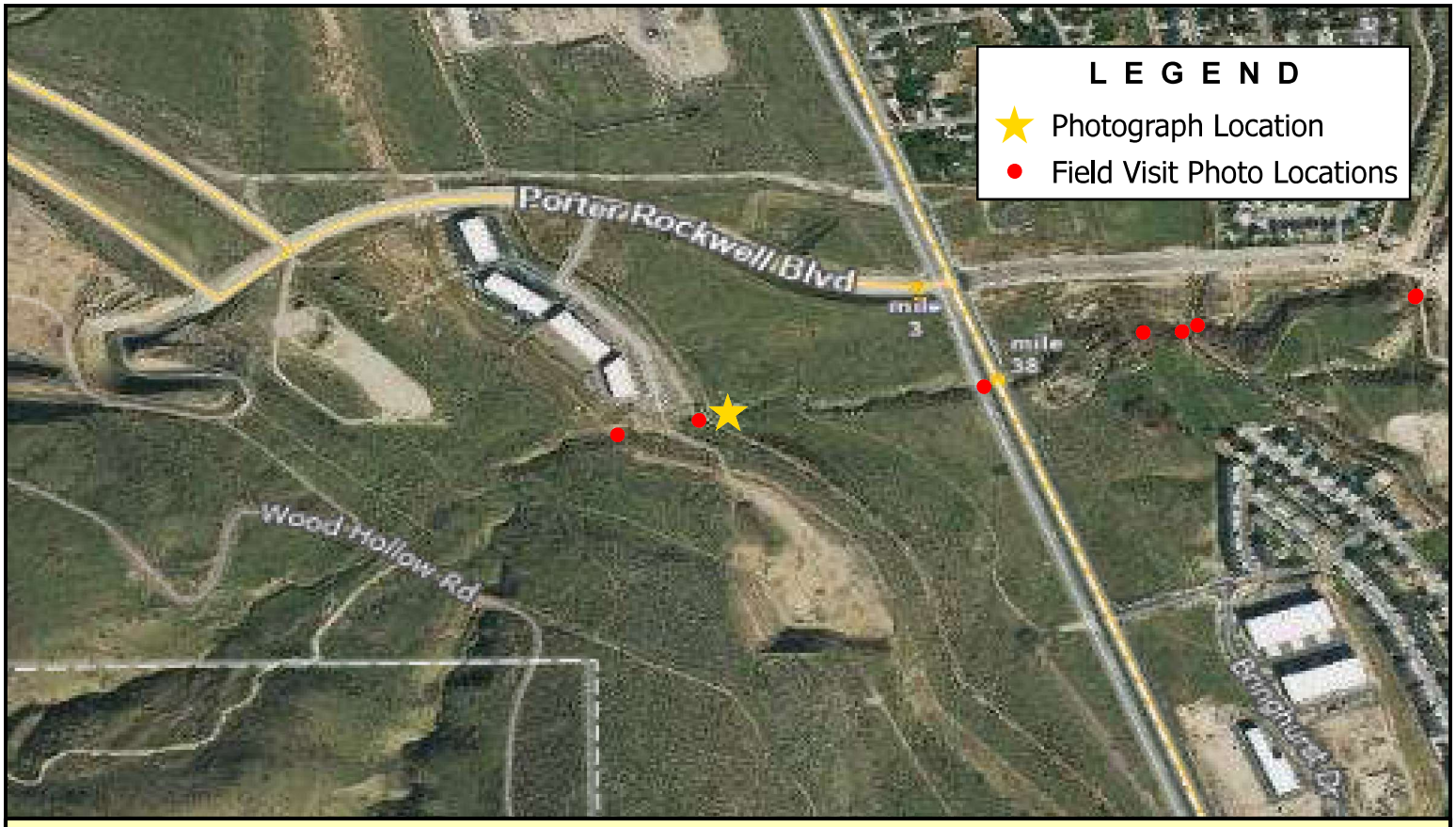
Redwood Rd.

Salt Lake County Flood Control
Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.



Note: Downstream end of Welby Jacob Canal culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Welby Jacob Canal

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

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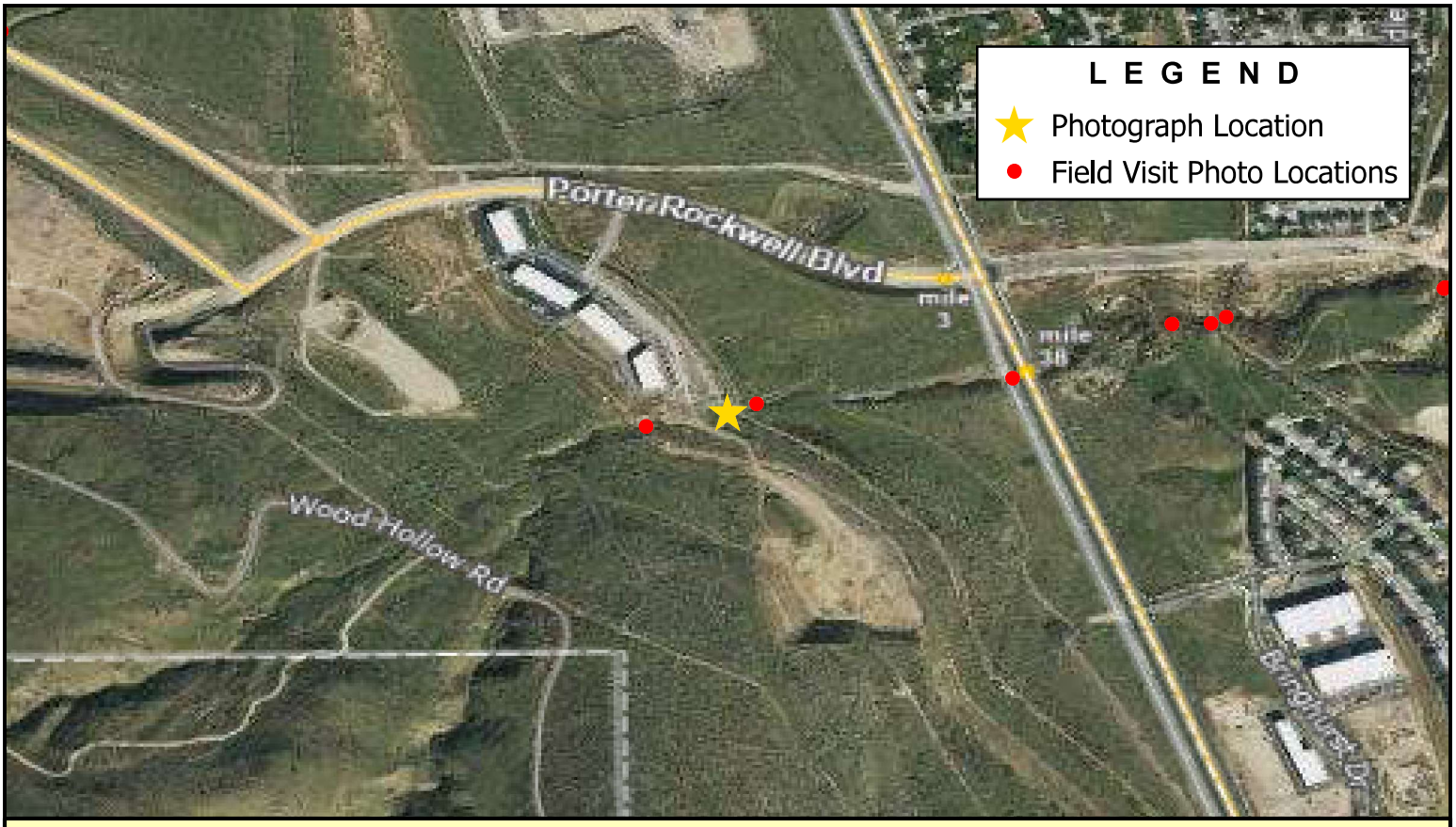

Note: Manhole for Welby Jacob Canal culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Welby Jacob Canal

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

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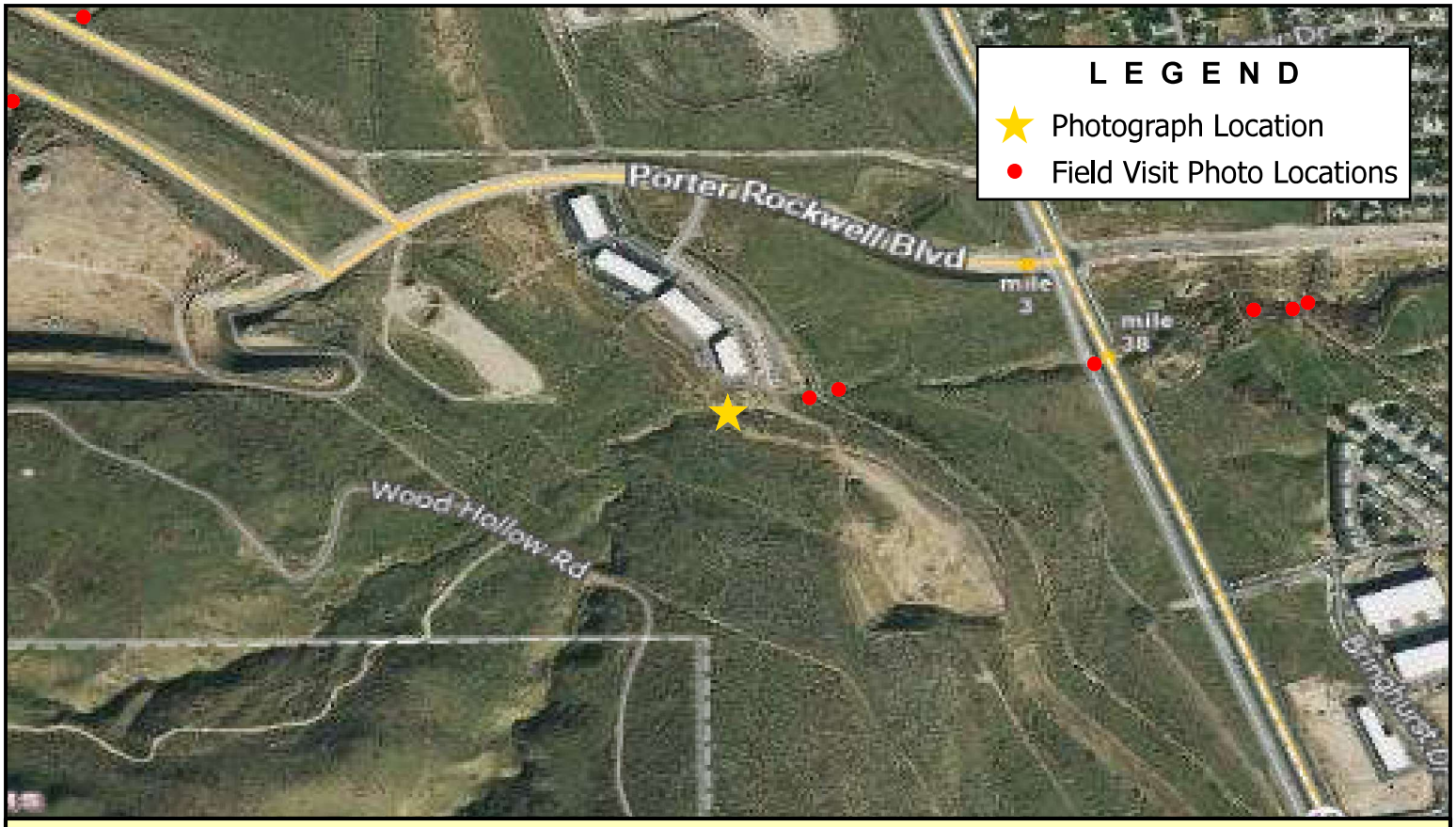


Note: Upstream end of Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Wood Hollow South

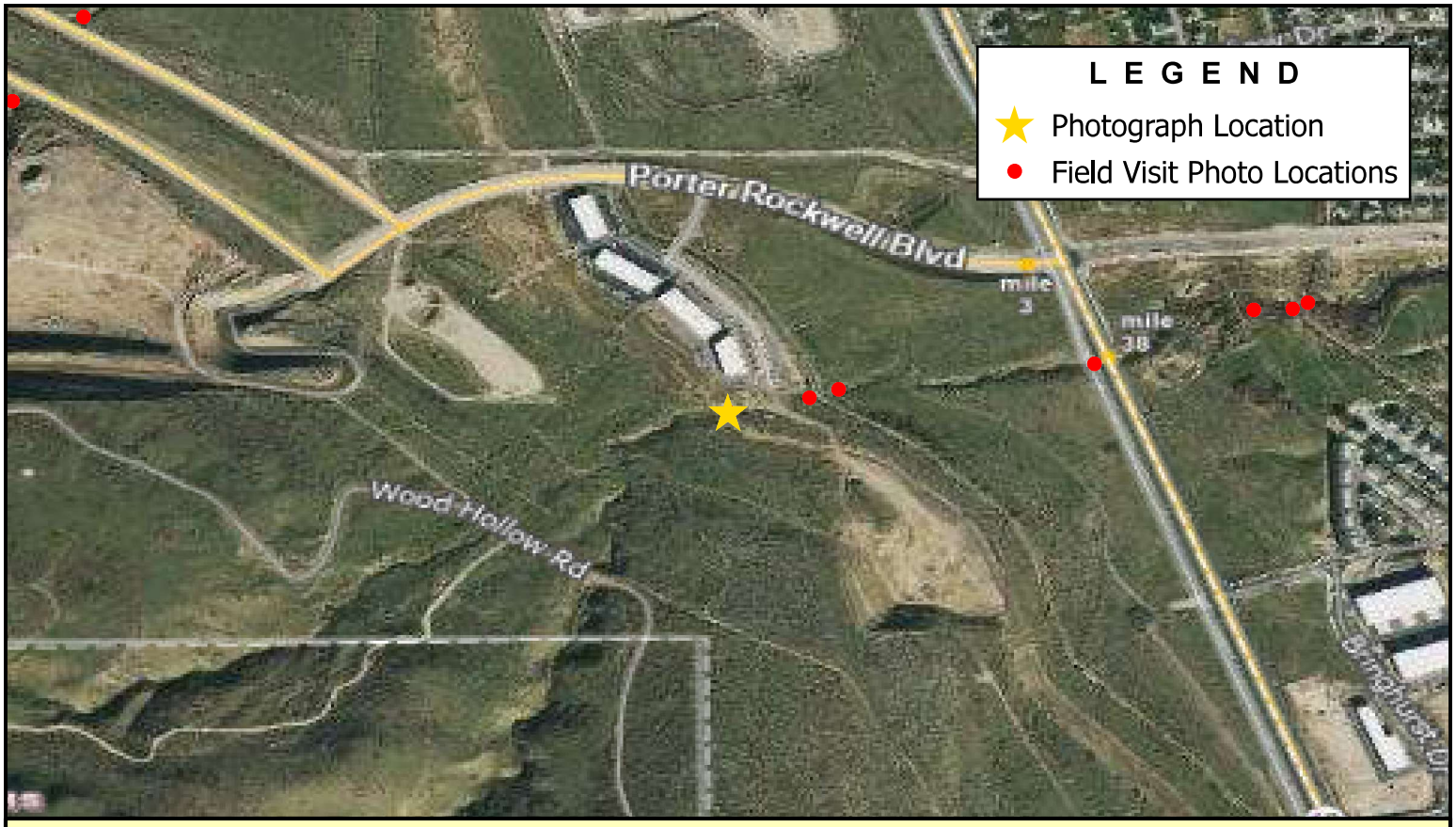
Salt Lake County Flood Control

Wood Hollow & Wood Hollow South Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.



Note: Inlet to Welby Jacob Canal culvert for Wood Hollow South

BOWEN COLLINS & ASSOCIATES

Welby Jacob Canal

Salt Lake County Flood Control

Wood Hollow & Wood Hollow South
Photo Log SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO.

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\TheHollows\General Figures.aprx tjorgensen 7/21/2022

9000 South Culvert

Utility Crossing – Approximately 8750 South

9000 South Culvert

Pedestrian Bridge & Irrigation Turn out - Approximately 8600 South

Steep Hillside – Approximately 8780 South

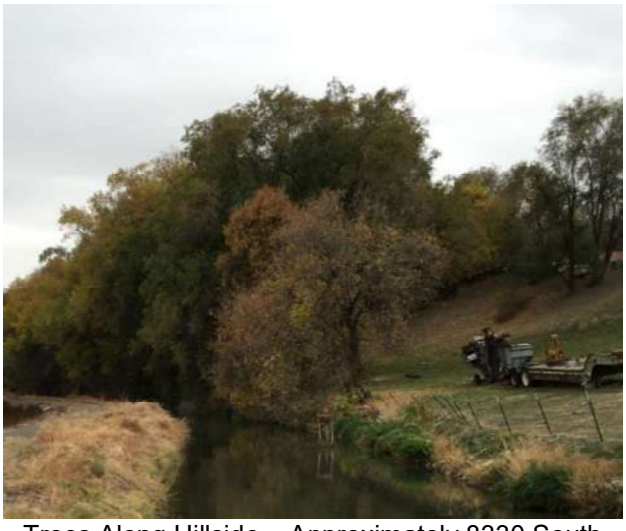
Broken Concrete as Riprap along Embankment – Approximately 8550 South

Hillside Rills – Approximately 8550 South

Trees on the Embankment - Approximately 8270 South

Pipe Penetration through the Embankment - Approximately 8370 South

Trees on the Embankment - Approximately 8250 South



Trees Along Hillside – Approximately 8330 South

Pedestrian Bridge - Approximately 8250 South

8200 South Bridge

42 inch Outfall at approximately 7500 South

Bridge For Private Driveway – 8050 South

Pump Station Intake at Approximately 7600 South

Bingham Creek Crossing – Approximately 8050 South

UTA Crossing and Storm Drain Overflow Structure Immediately South of 7800 South

7800 South Culvert

Spring Discharging into NJC at Approximately 7600 South

Pedestrian Bridge Immediately North of 7800 South near Gardner Village

Culvert at 7500 South

Concrete Flume Immediately North of 7800 South near Gardner Village

Tree in Embankment at Approximatley 7450 South

Outfall at Approximately 7400 South

Culvert at 7200 South

Storm Drain Overflow/Dump-out and Pedestrian Bridge at Approximately 7200 South

Utility Crossing at Approximately 7100 south

Storm Drain Overflow/Dump-out at Approximately 7200 South

Canal Lining at Approximately 6800 South

Monitoring Station at Approximately 6700 South

Storm Drain Overflow/Dump-out at Winchester Street

Canal Lining at Approximately 6700 South

Evidence of Embankment Movement at Approximately 6600 South

Monitoring Station and Winchester Street Culvert

Trash Rack Upstream of Enclosed Canal at Approximately 6500 South

Evidence of Embankment Movement at Approximately 6500 South

Wood Bridge at Approximately 6400 South

Pump Station on Downstream End of Enclosed Canal Section at Approximately 6450 South

Development Encroachment at Approximately 6400 South

36 Inch Outfall at Approximately 6400 South

Culvert at Bennion Blvd. and 30 inch Outfall at Approximately 6235 South

Bridge at Loch Hawkins Drive

Outfall at Approximately 5850 South immediately upstream of I-215

I-215 Overpass and Maintenance Access Bridge

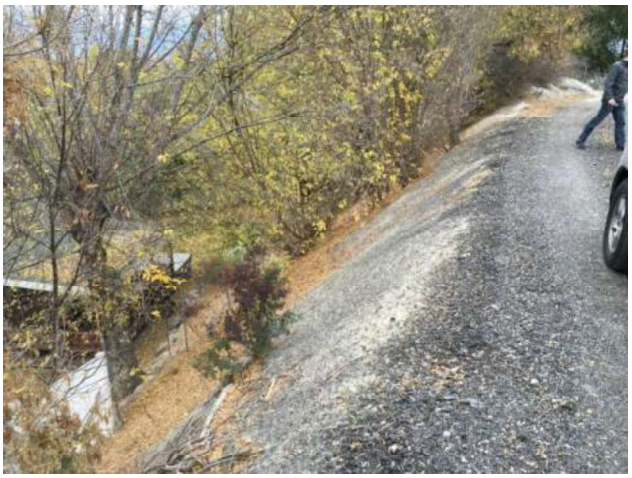
Outfall at Approximately 5770 South

36 inch Pipe outfall at Approximately 5900 South

Bridge at Bullion Street

Storm Drain Overflow/Dump-out at Approximately 5600 South

Storm Drain Overflow/Dump-out at 5400 South



Over Steepened Embankment at Approximately 5500 South

Culvert at 5400 South

Trash Rack Upstream of Enclosed Canal at Approximately 5500 South

24 inch Outfall at Approximately 5350 South

Maintenance Access Road Bridge and Culvert at Morning Vista Drive

Pedestrian Bridge and Outfall at Approximately 4900 South

Bridge and Pump Station at Morning Sun Drive

4700 South Culvert

Pipe Crossing at Approximately 4950 South

4610 South Culvert

4650 South Culvert

Pedestrian Bridge at Approximately 1800 West

Pedestrian Bridge in Cemetery at Approximately 4650 South

Pump Station at Approximately 1850 West

Redwood Rd Bridge

Pedestrian Bridge at Approximately 2100 West

Pump Station Intake at Approximately 2100 West

I-215 Bridge

Bridge at 2200 West

I-215 Overflow Structure

Bridge at 2290 West

Culvert near American Express (Approximately 4240 South)

Bridge at Butch Draw

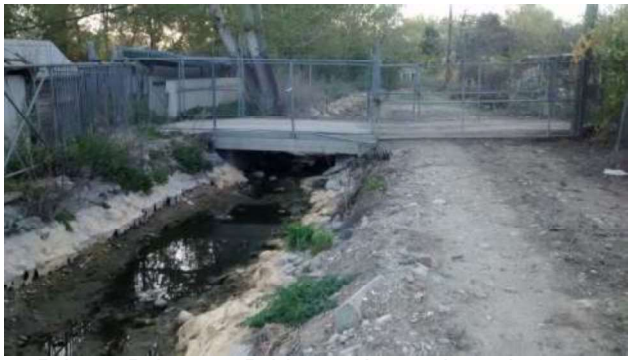
Footbridge at Approximately 2800 West

Redwood Road Bridge

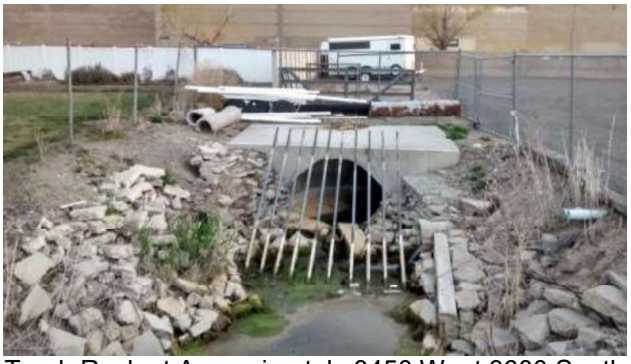
Bridge at 3200 West

Overflow Structure at Approximately 2700 West

Concrete Flume Immediately West of 3200 West



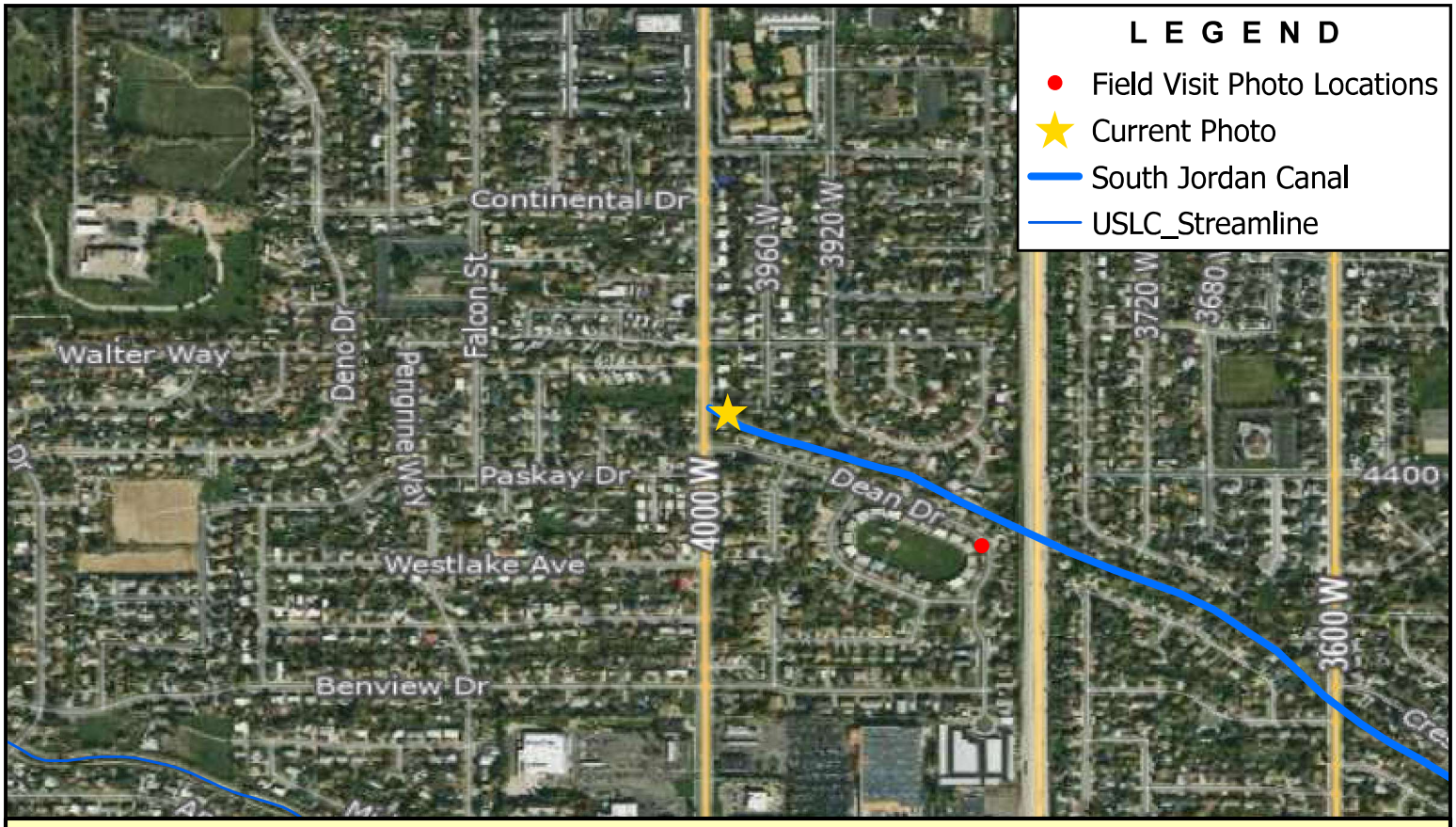
Private Driveway Bridge at Approximately 3325 West



Trash Rack at Approximately 3450 West 3600 South

Trash Rack Immediately Upstream of the Outworks to the NJC Pipe

Outworks to the NJC pipe



Note: Salt Lake County Facility Ends at 4000 West

BOWEN COLLINS & ASSOCIATES

End of Canal at 4000 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

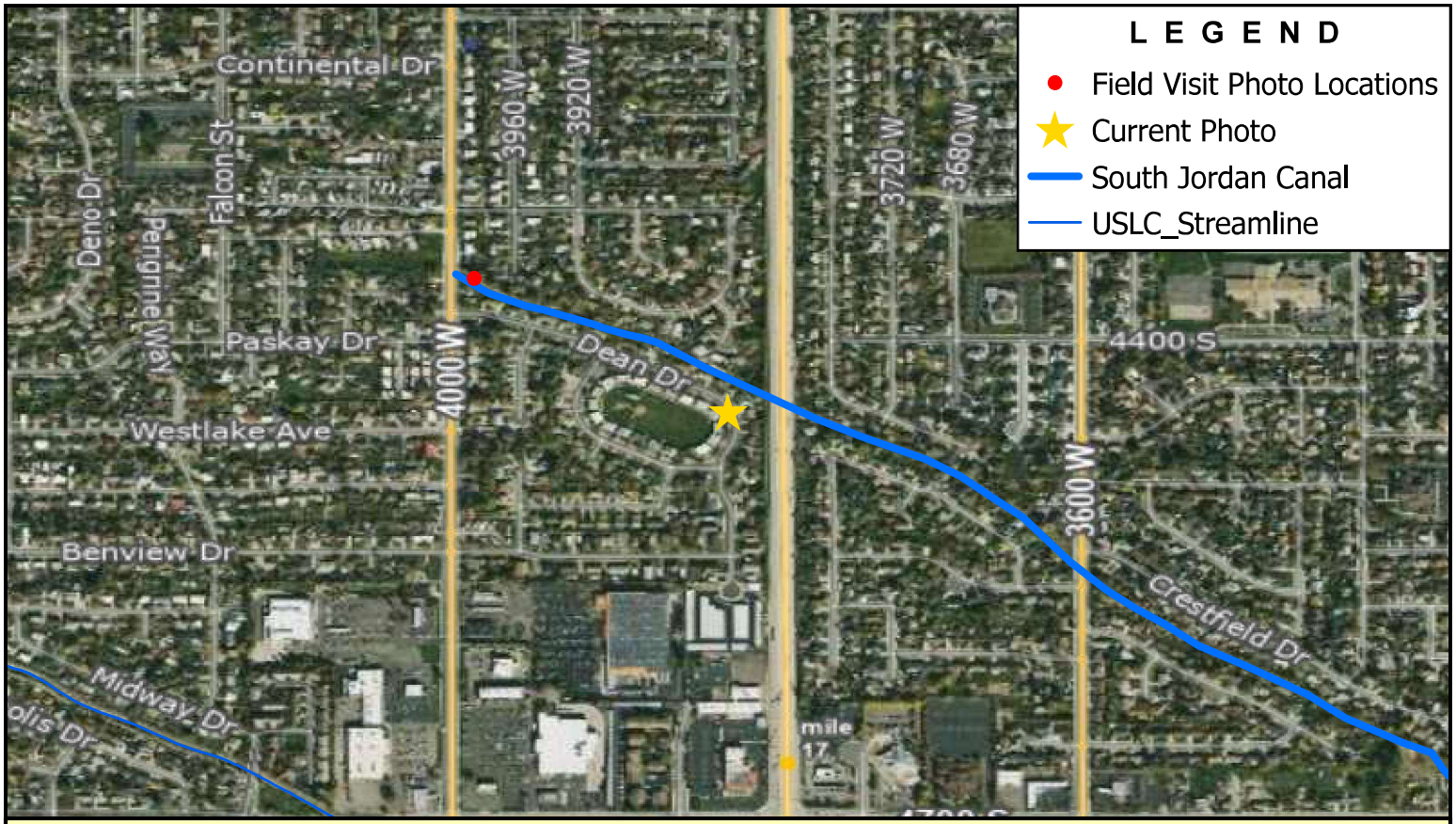
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 1

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Bangerter Highway Crossing

BOWEN COLLINS & ASSOCIATES

Bangerter Highway

SALT LAKE COUNTY

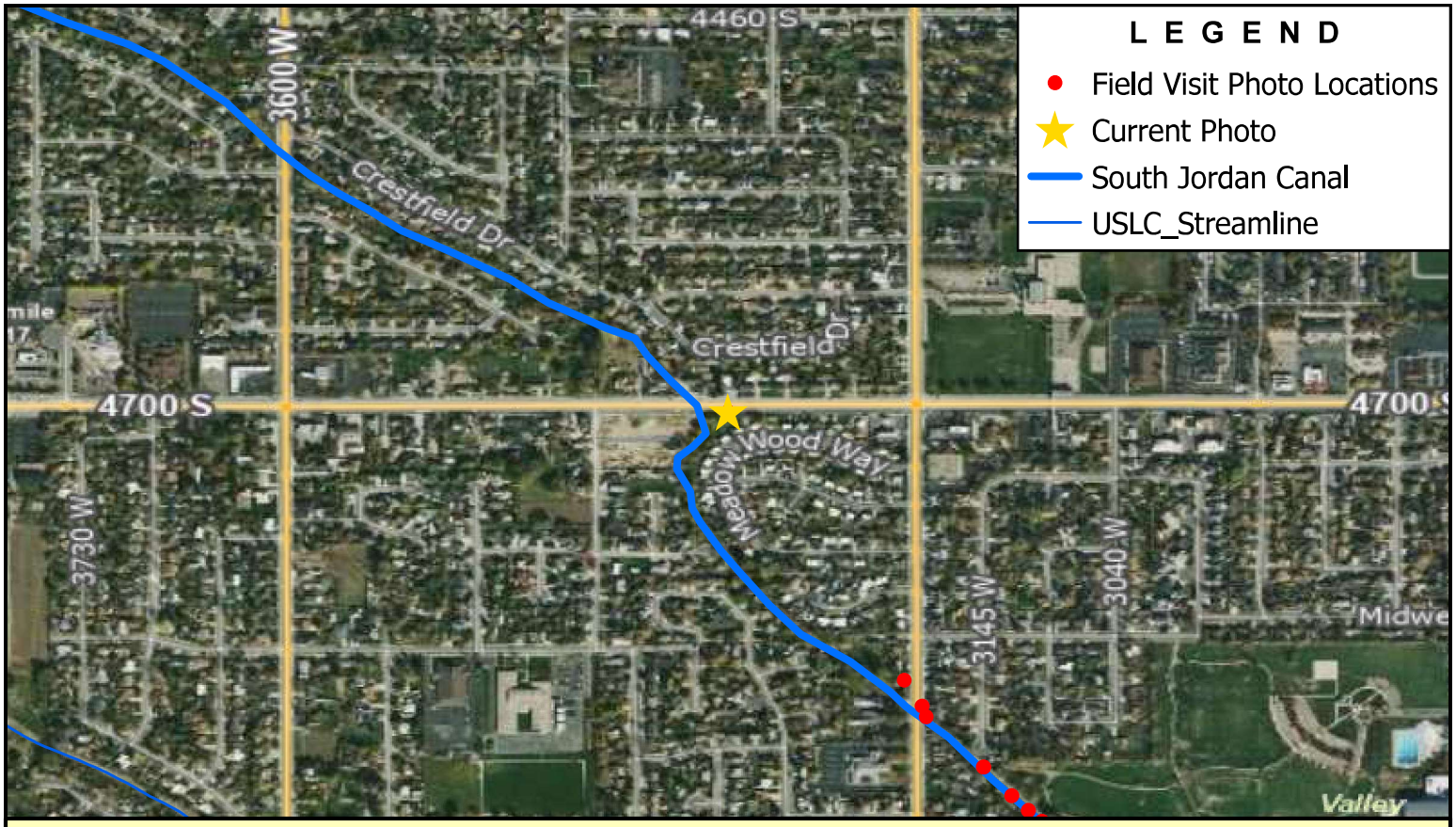
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 2

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream of 4700 South and the Stromwater Dumpout Structure

BOWEN COLLINS & ASSOCIATES

4700 South Dumpout

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 3

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Access Road at 3250 West

BOWEN COLLINS & ASSOCIATES

S 3250 W

SALT LAKE COUNTY

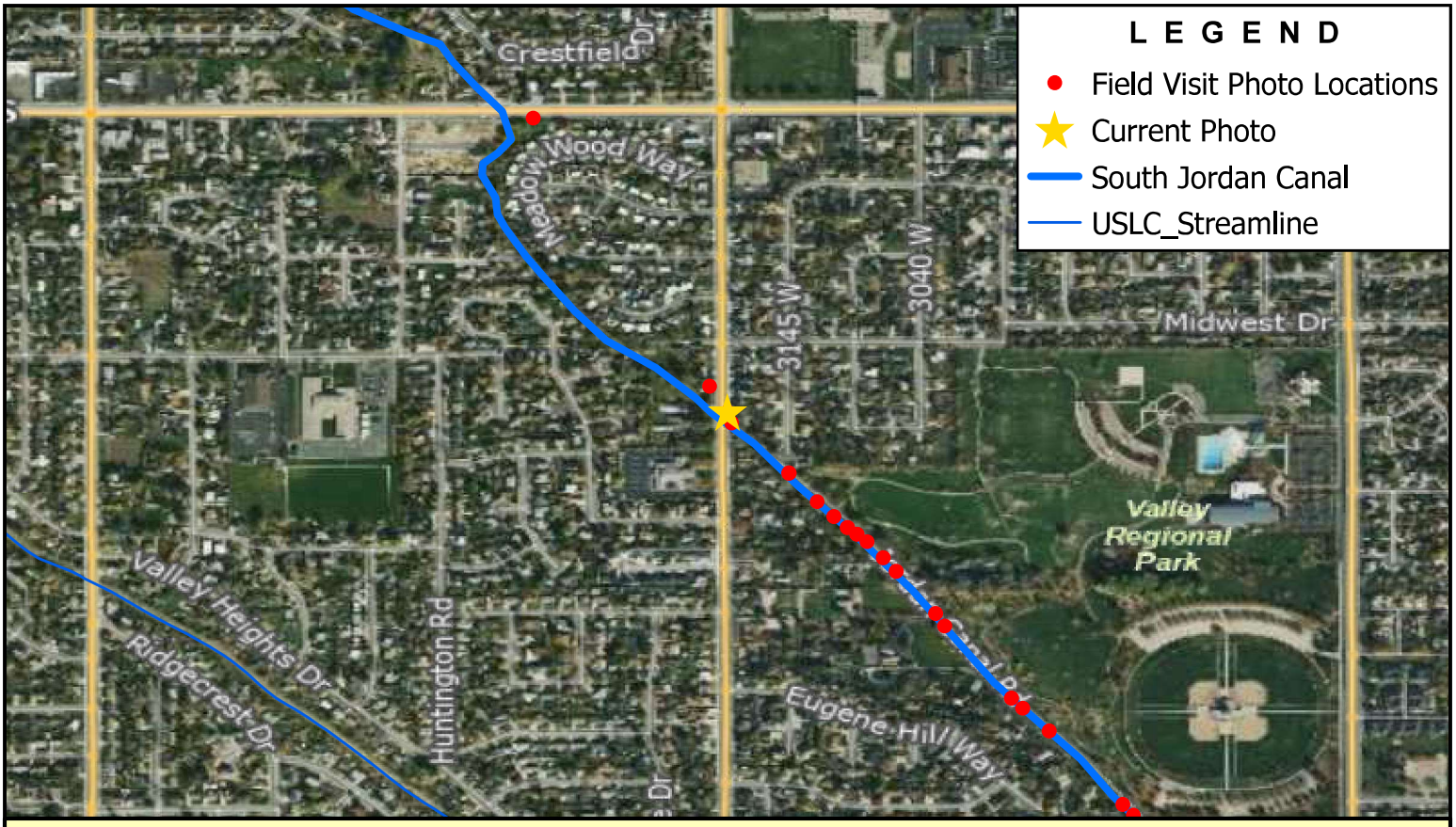
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 4

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of the 3200 West Culvert

BOWEN COLLINS & ASSOCIATES

S 3200 W

SALT LAKE COUNTY

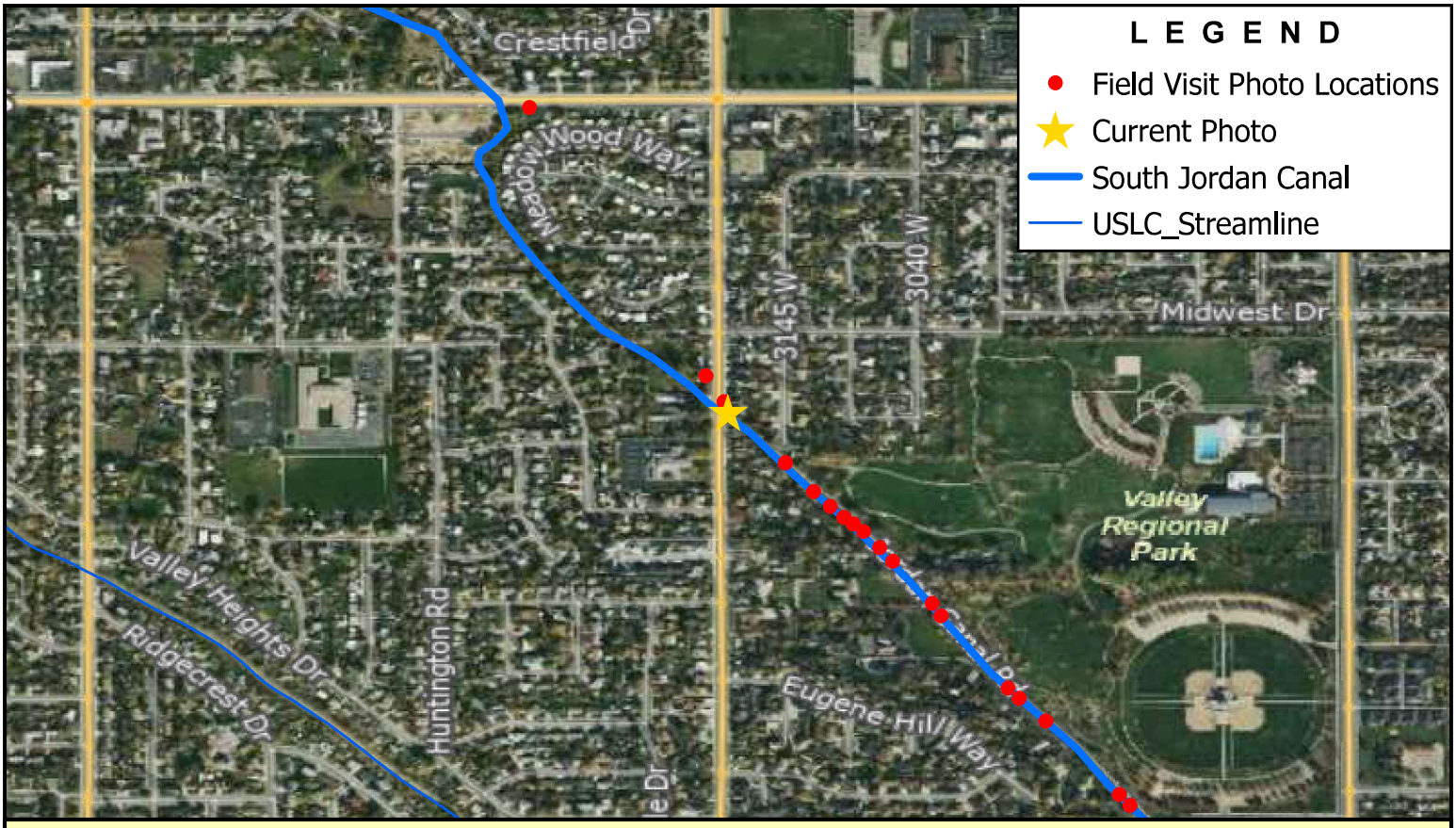
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 5

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of the 3200 West Culvert

BOWEN COLLINS & ASSOCIATES

S 3200 W

SALT LAKE COUNTY

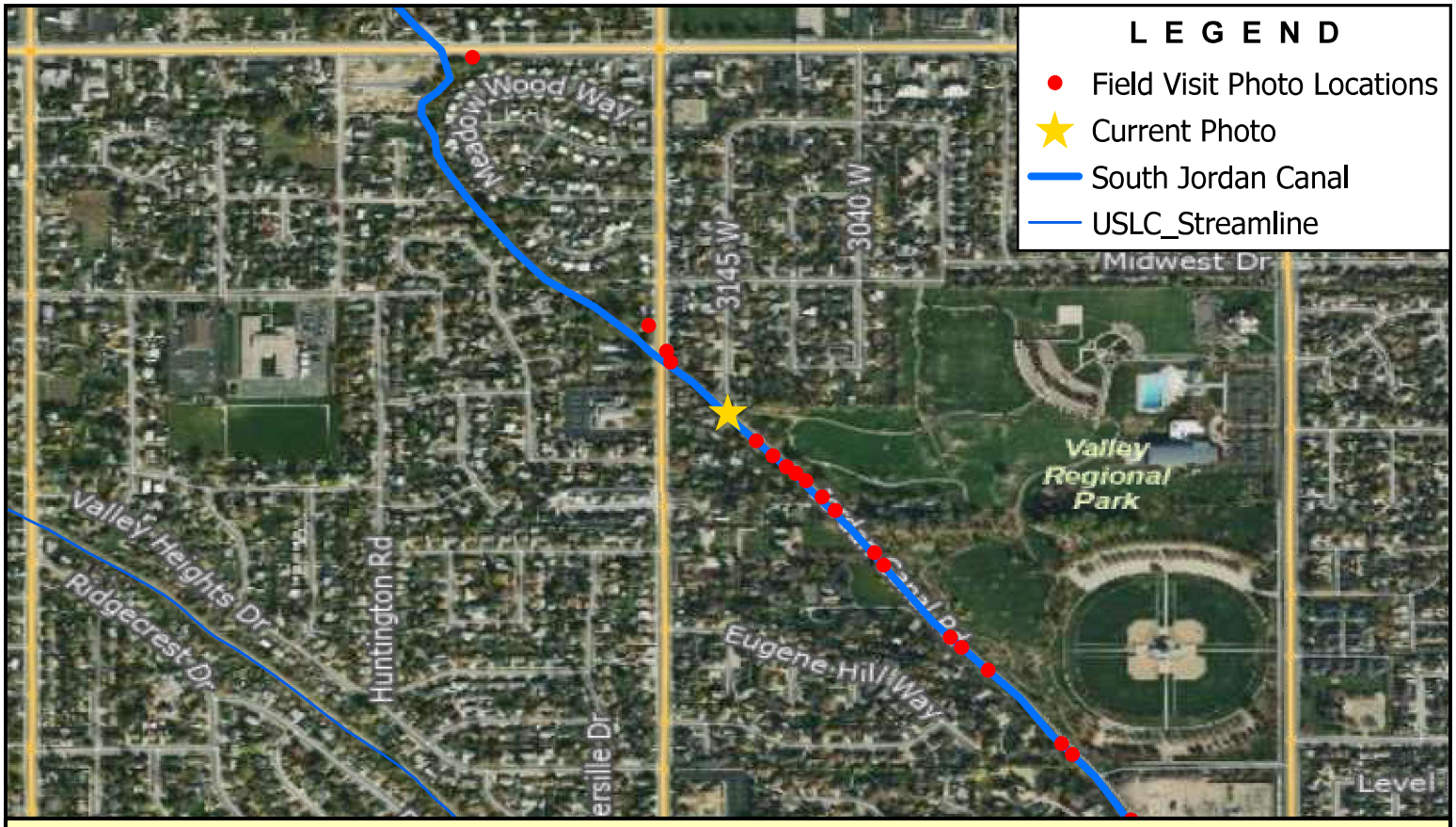
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 6

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Access Bridge at 3145 West

BOWEN COLLINS & ASSOCIATES

S 3145 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

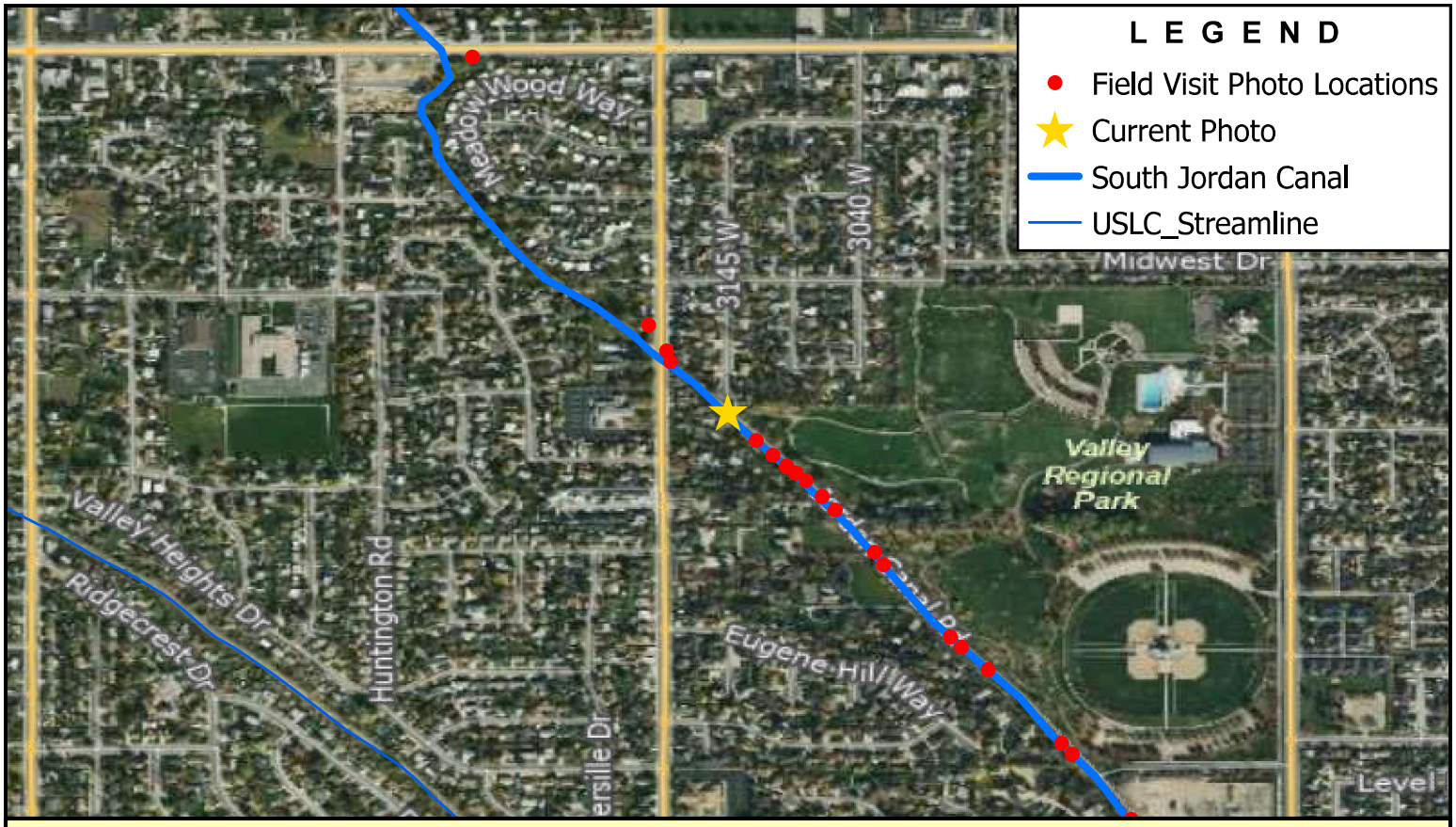
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 7

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 3100 West Driveway

BOWEN COLLINS & ASSOCIATES

S 3100 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

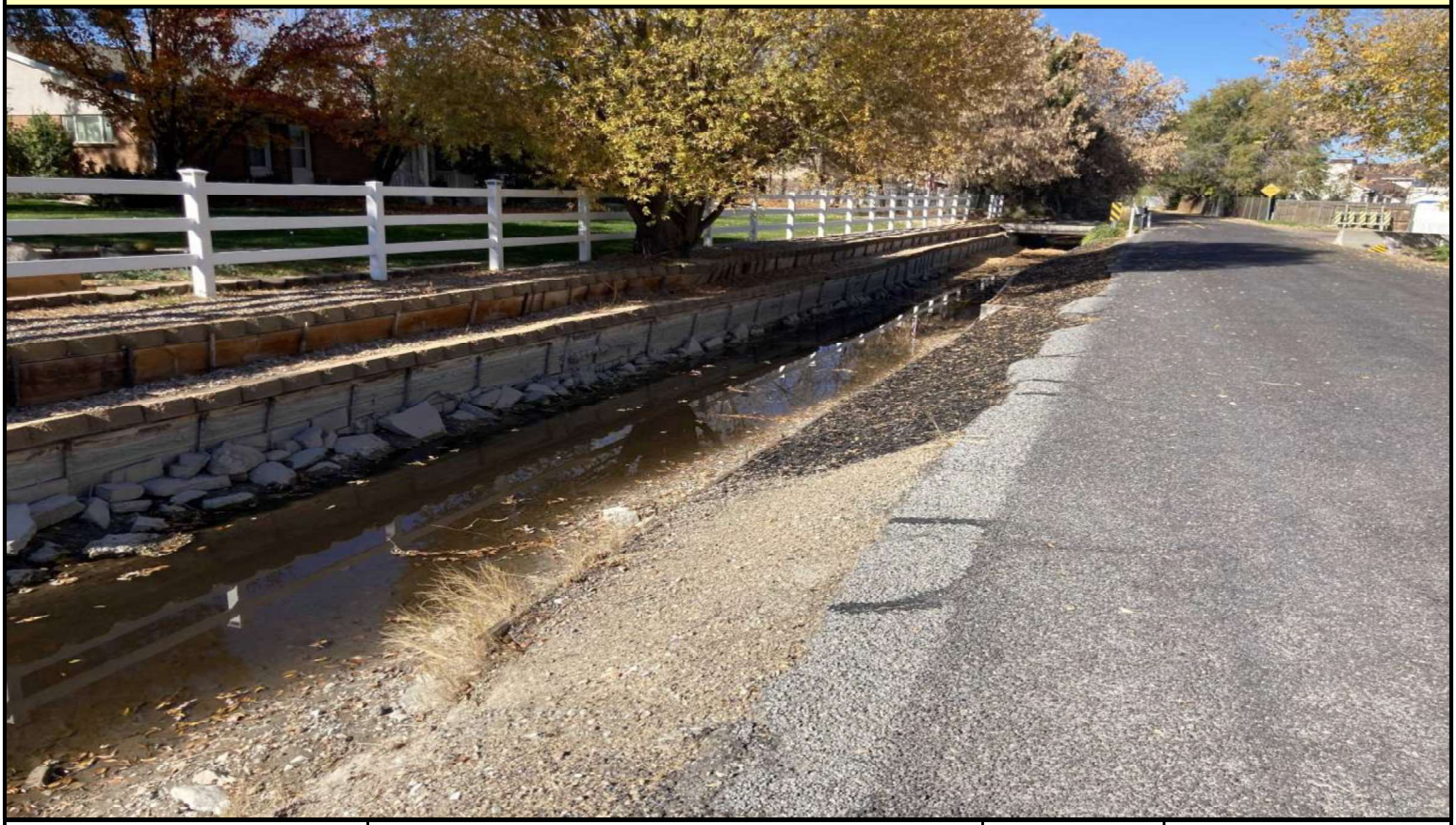
NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 8

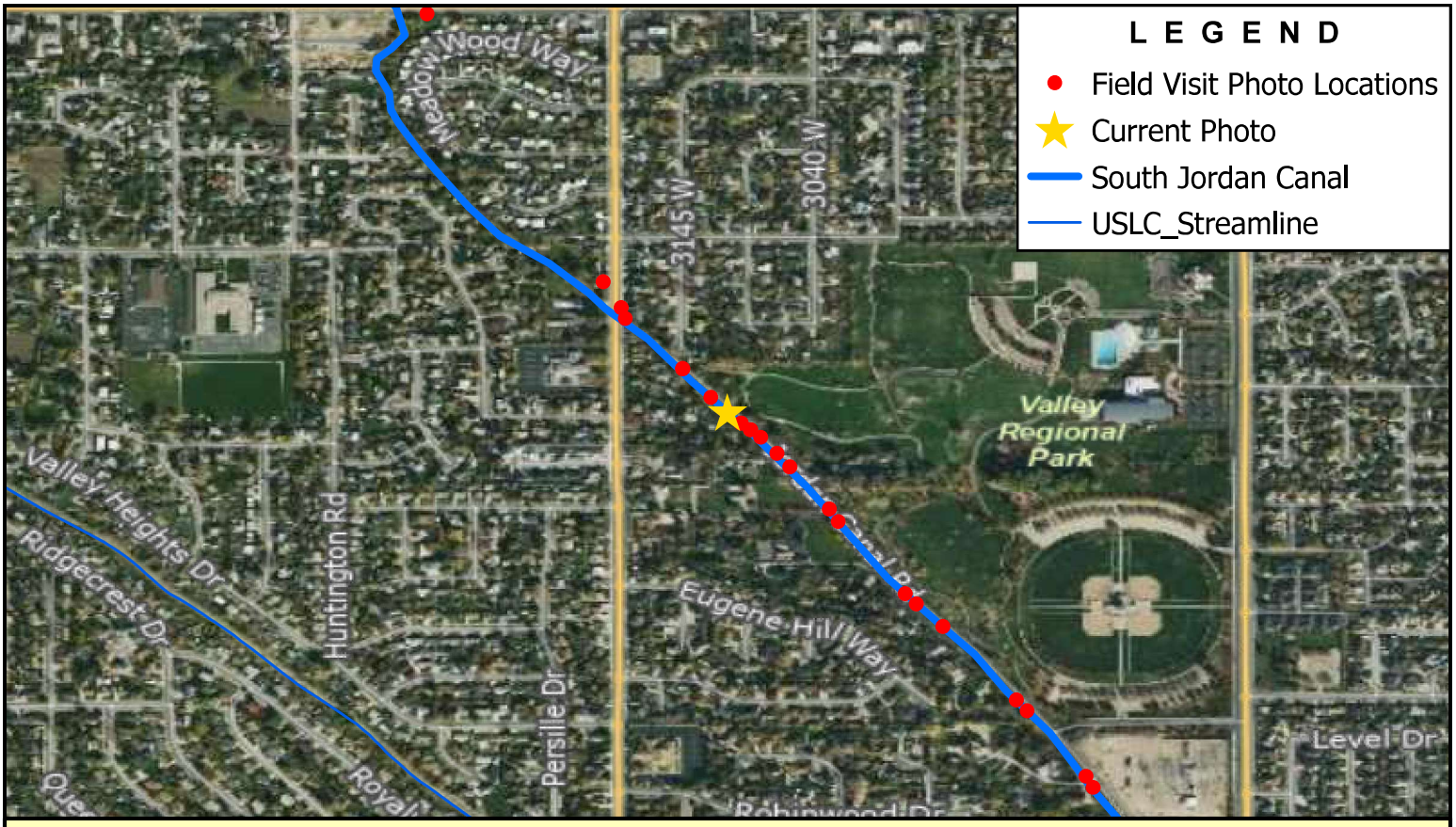
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 3100 West Driveway & Canal



BOWEN COLLINS & ASSOCIATES	S 3100 W	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 9

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 4964 South Driveway

BOWEN COLLINS & ASSOCIATES

w 4960 S

SALT LAKE COUNTY

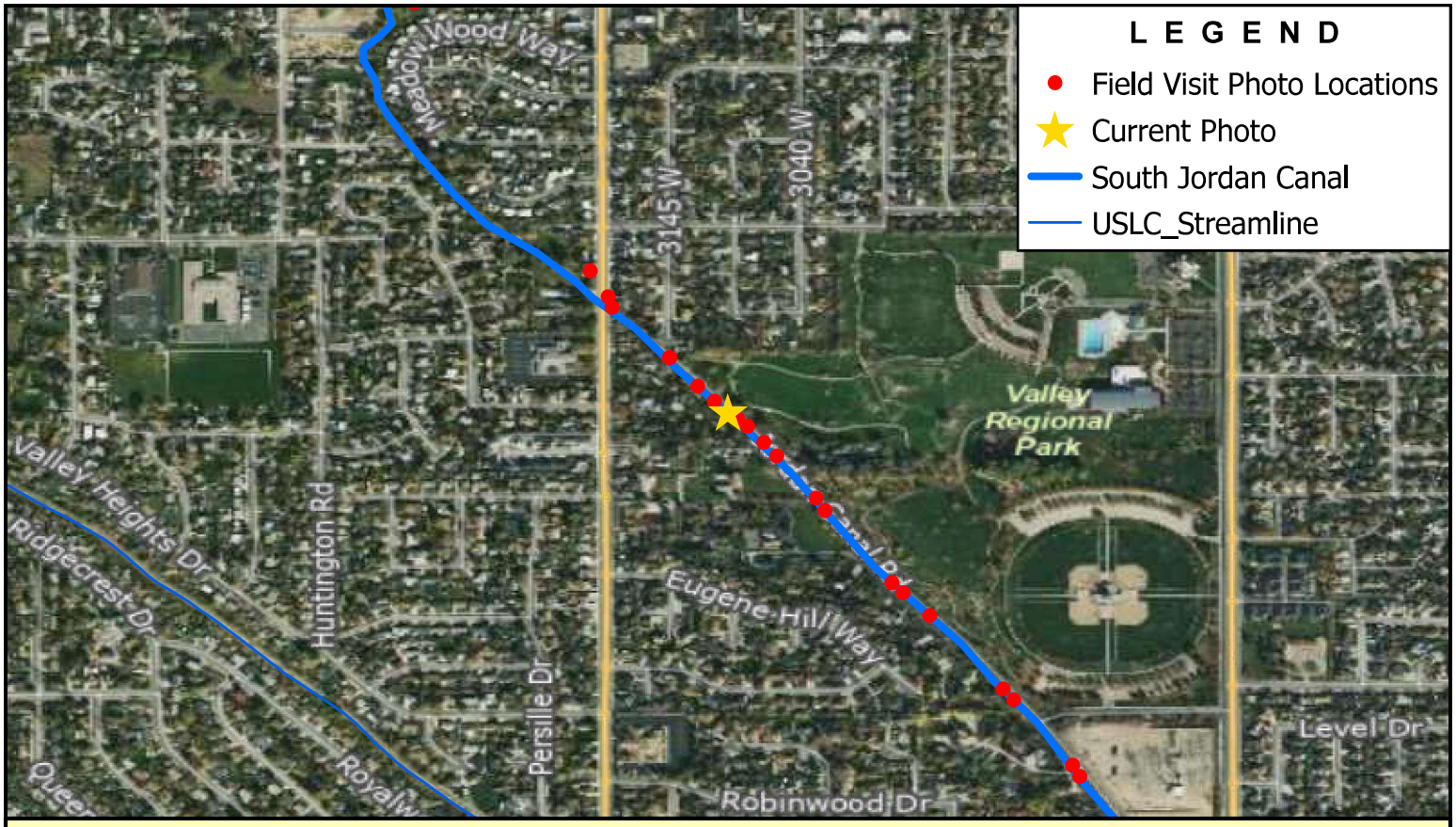
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 10

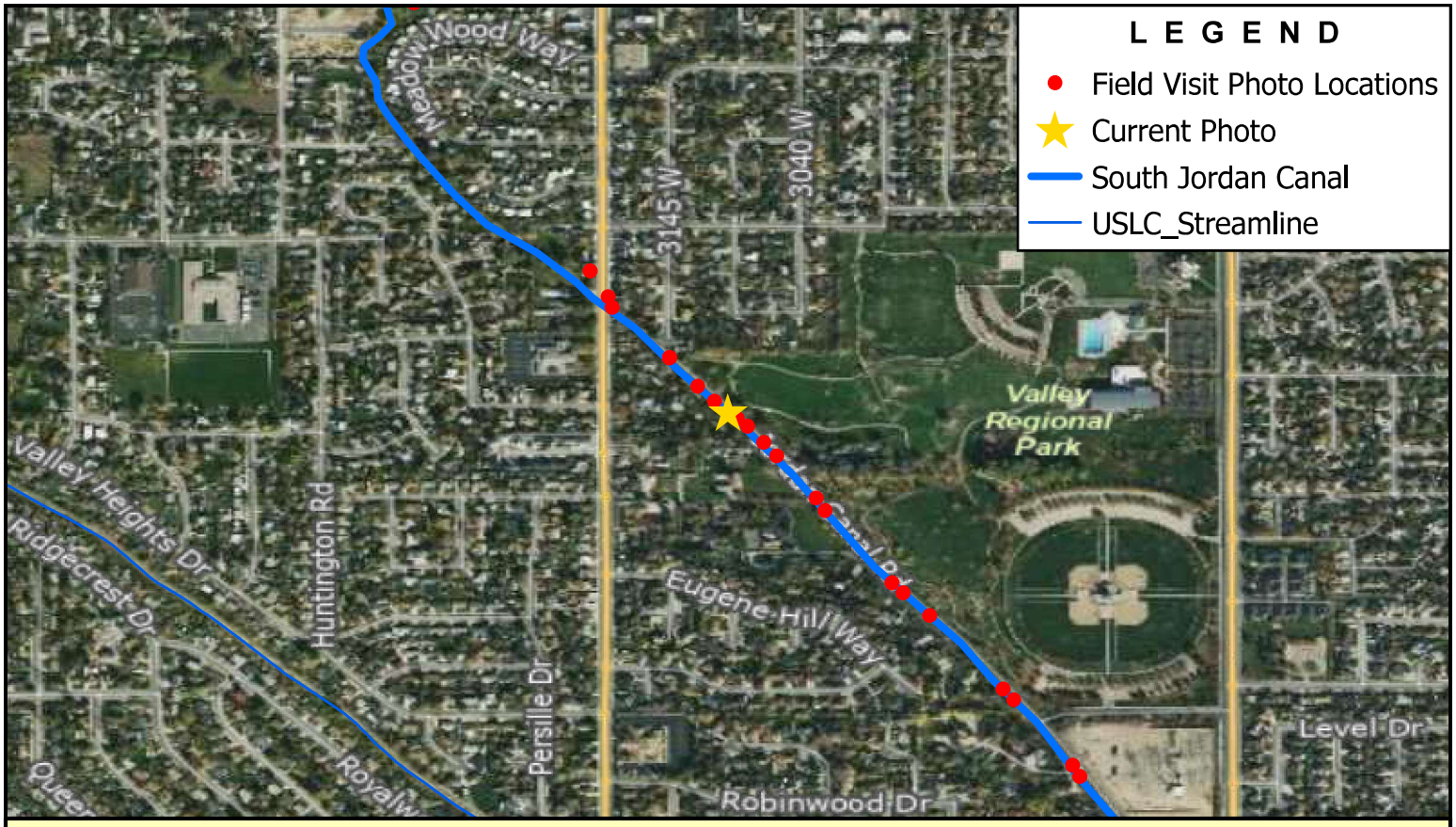
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 4964 South Driveway

BOWEN COLLINS & ASSOCIATES	w 4960 S	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 11

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 4984 South Driveway

BOWEN COLLINS & ASSOCIATES

W 4965 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

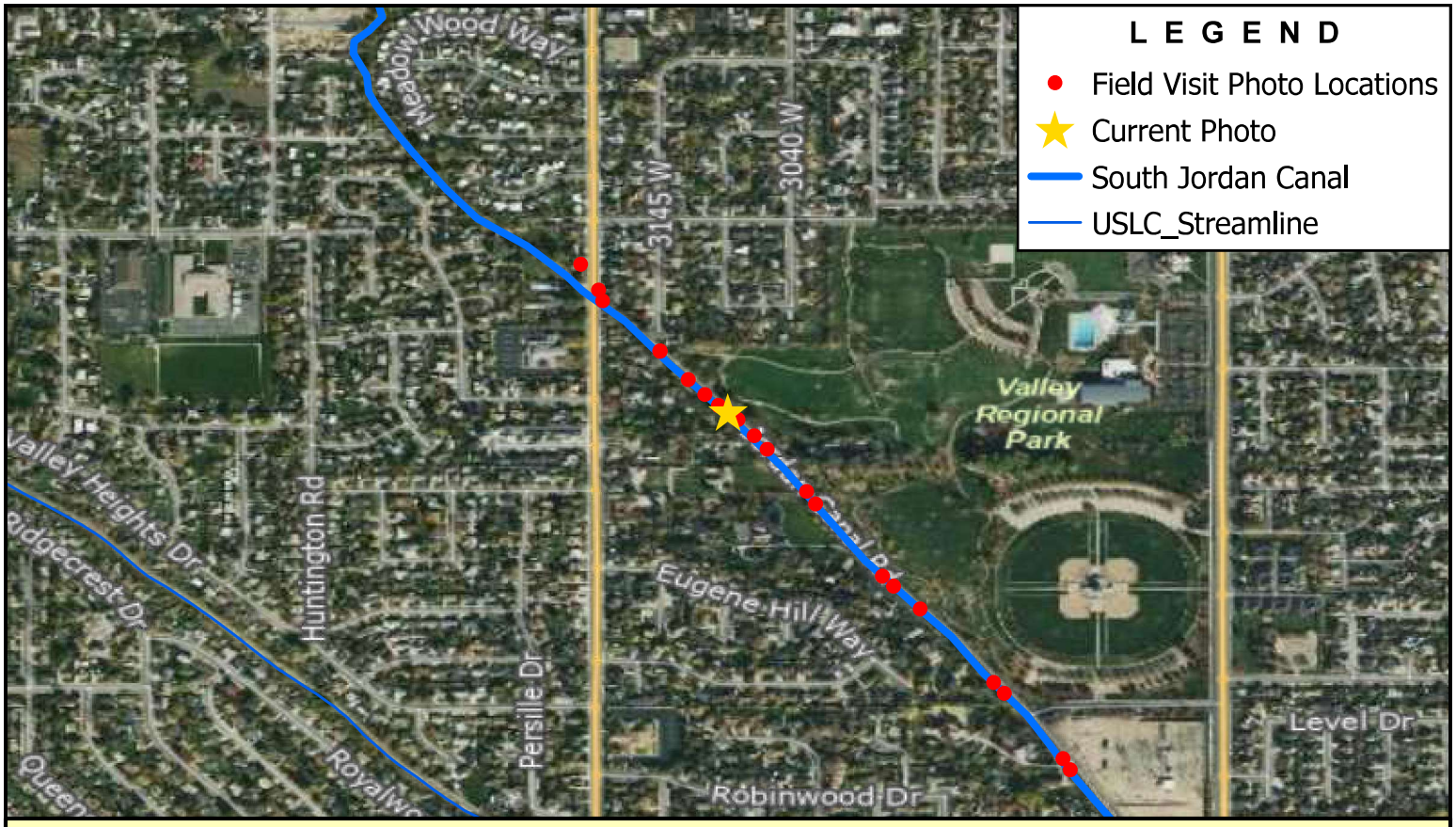
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 12

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 4984 South Driveway

BOWEN COLLINS & ASSOCIATES

W 4965 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

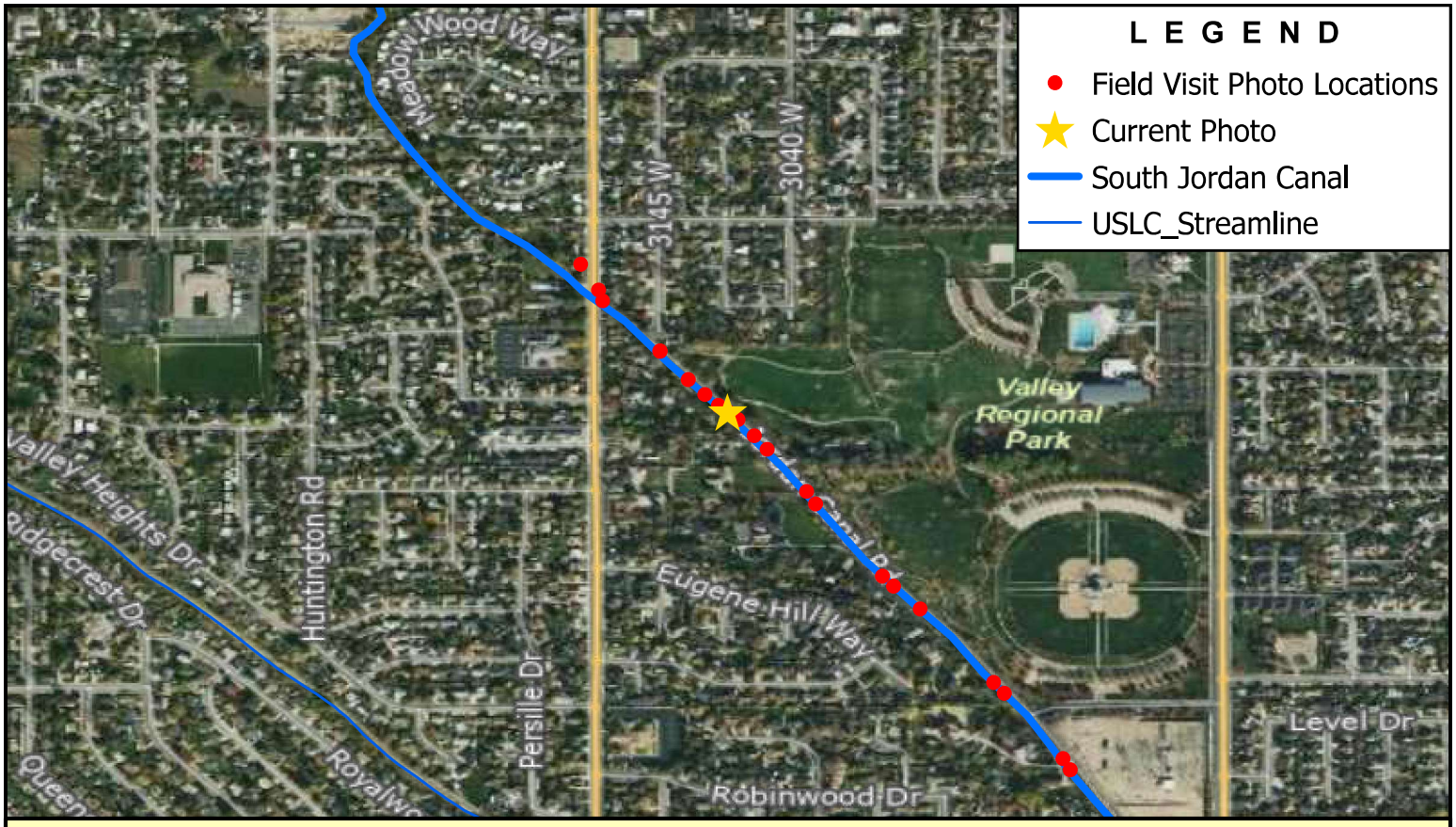
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 13

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 4986 South Driveway

BOWEN COLLINS & ASSOCIATES

W 4970 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 14

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 4986 South Driveway

BOWEN COLLINS & ASSOCIATES

W 4970 S

SALT LAKE COUNTY

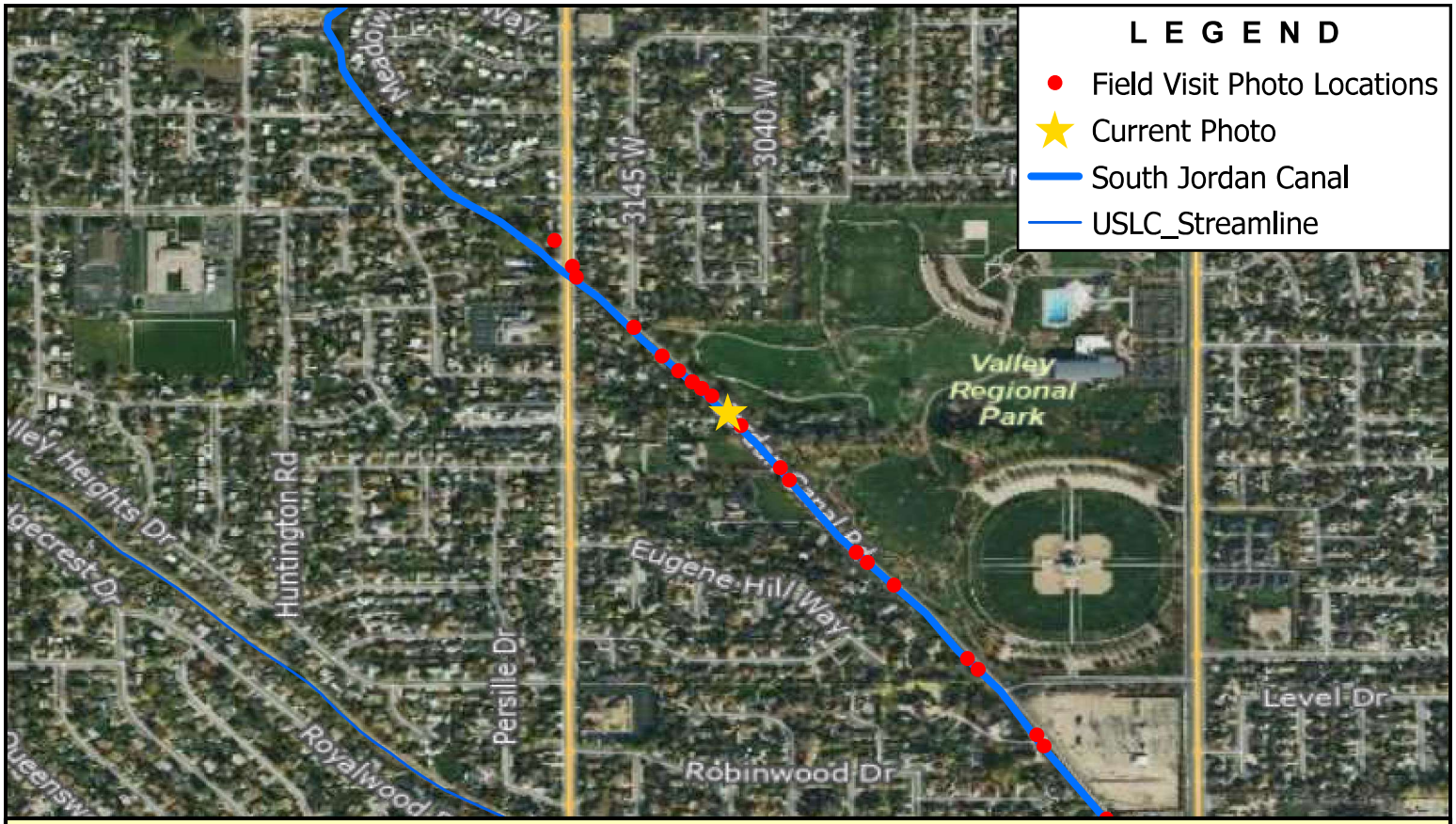
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 15

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 4990 South Driveway

BOWEN COLLINS & ASSOCIATES

W 4980 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

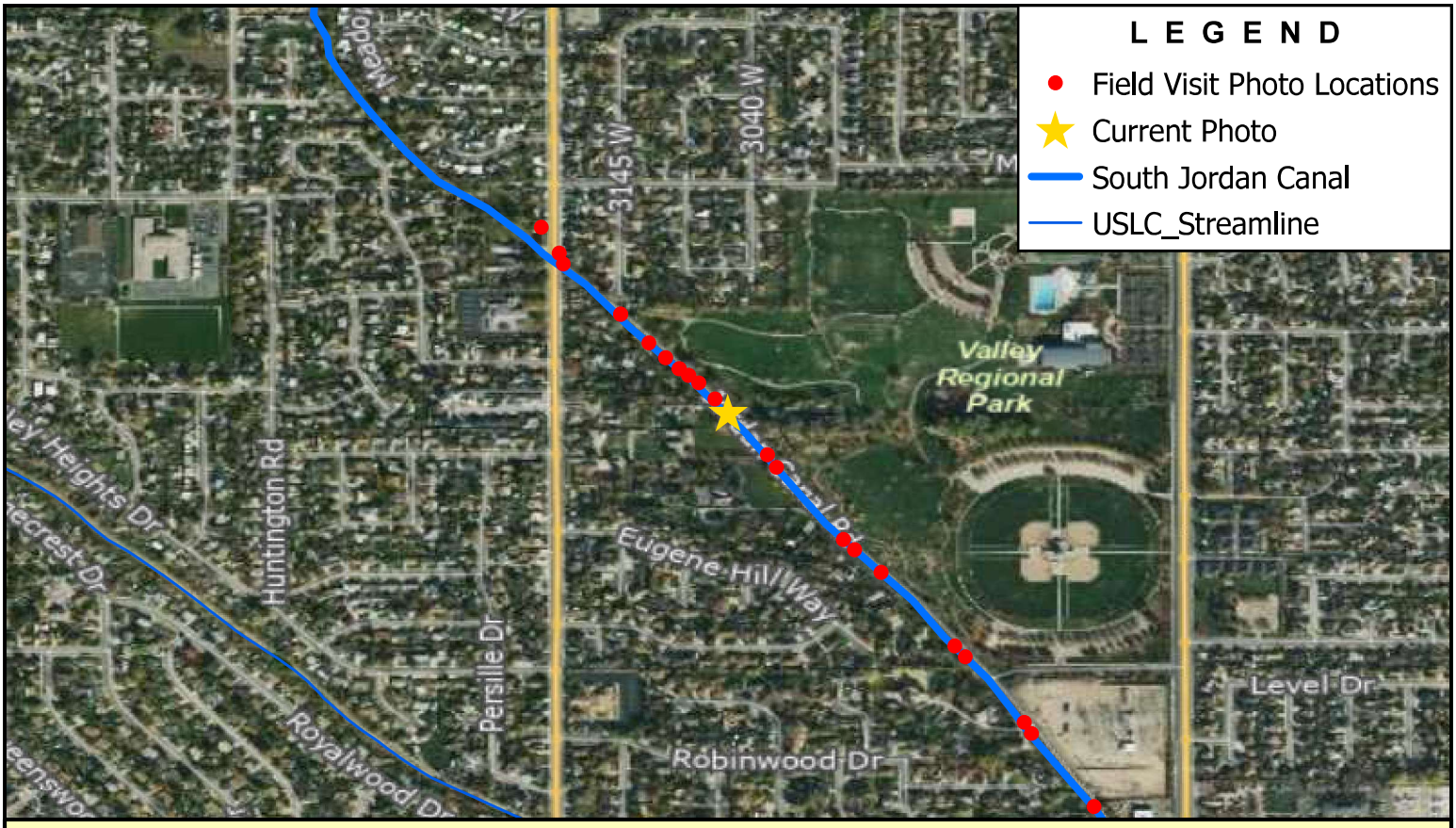
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 16

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 4990 South Driveway

BOWEN COLLINS & ASSOCIATES

W 4980 S

SALT LAKE COUNTY

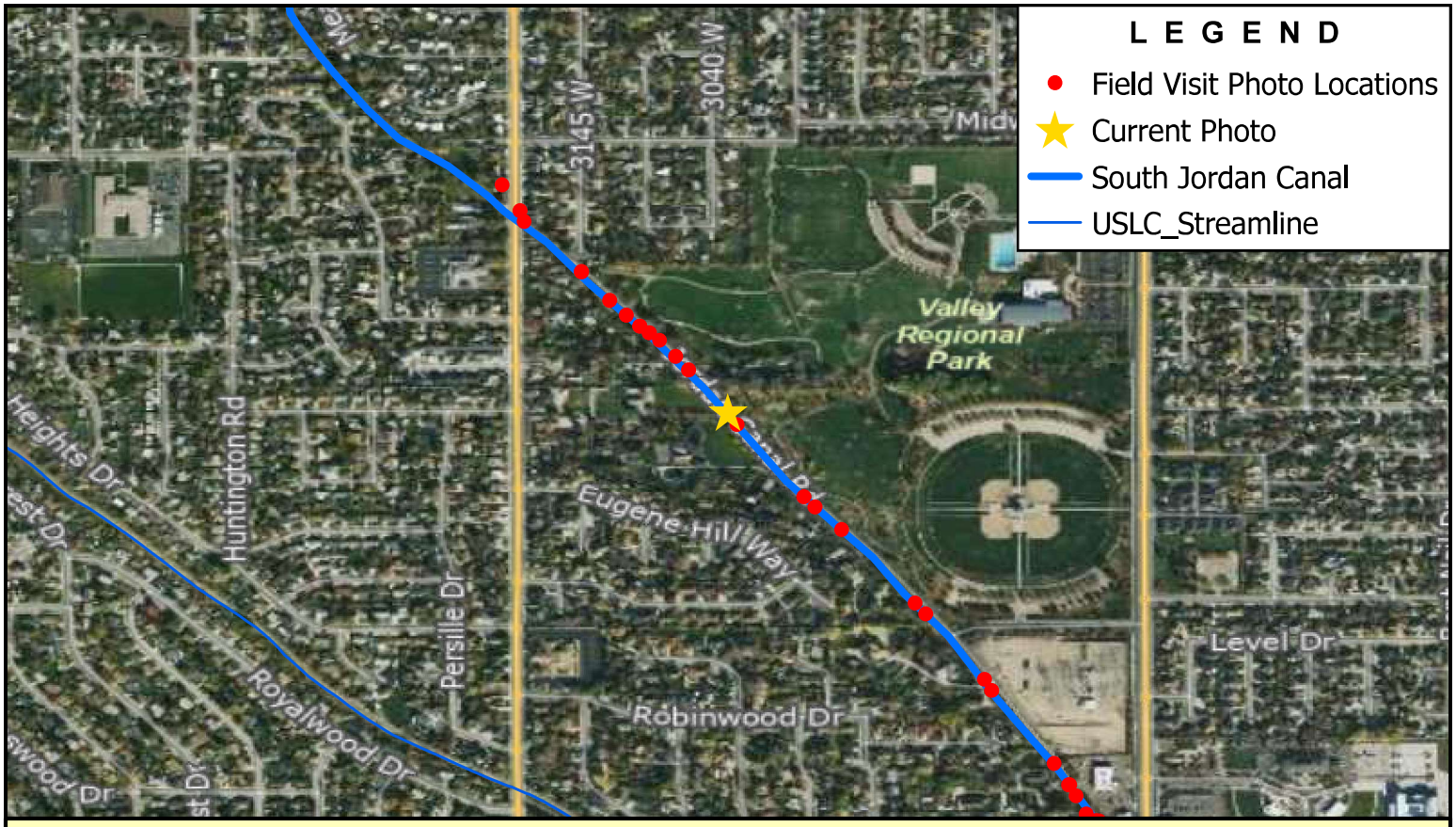
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

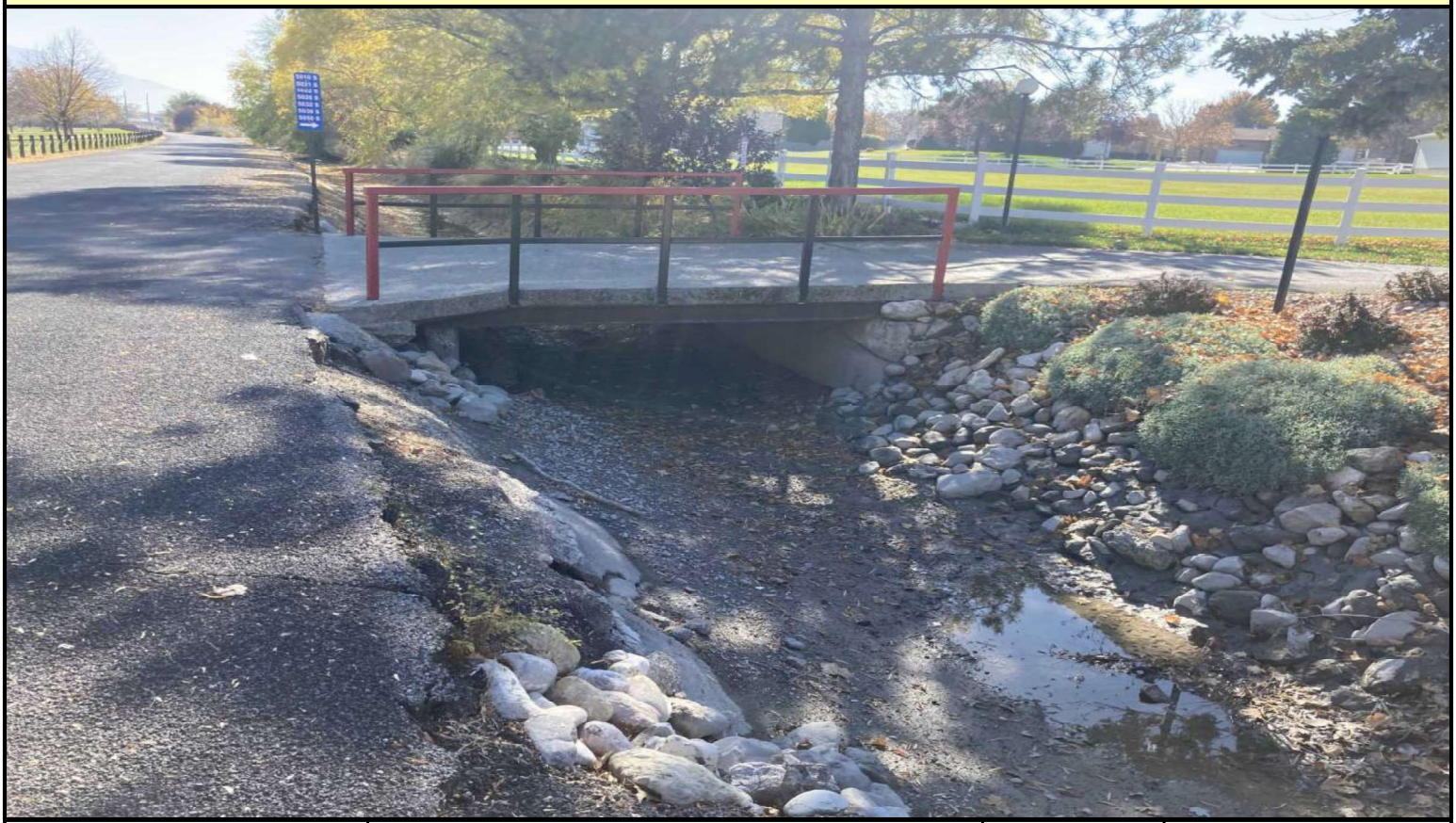
SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 17

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Bigarade Ln. Crossing



BOWEN COLLINS & ASSOCIATES

W Bigarade Ln

SALT LAKE COUNTY

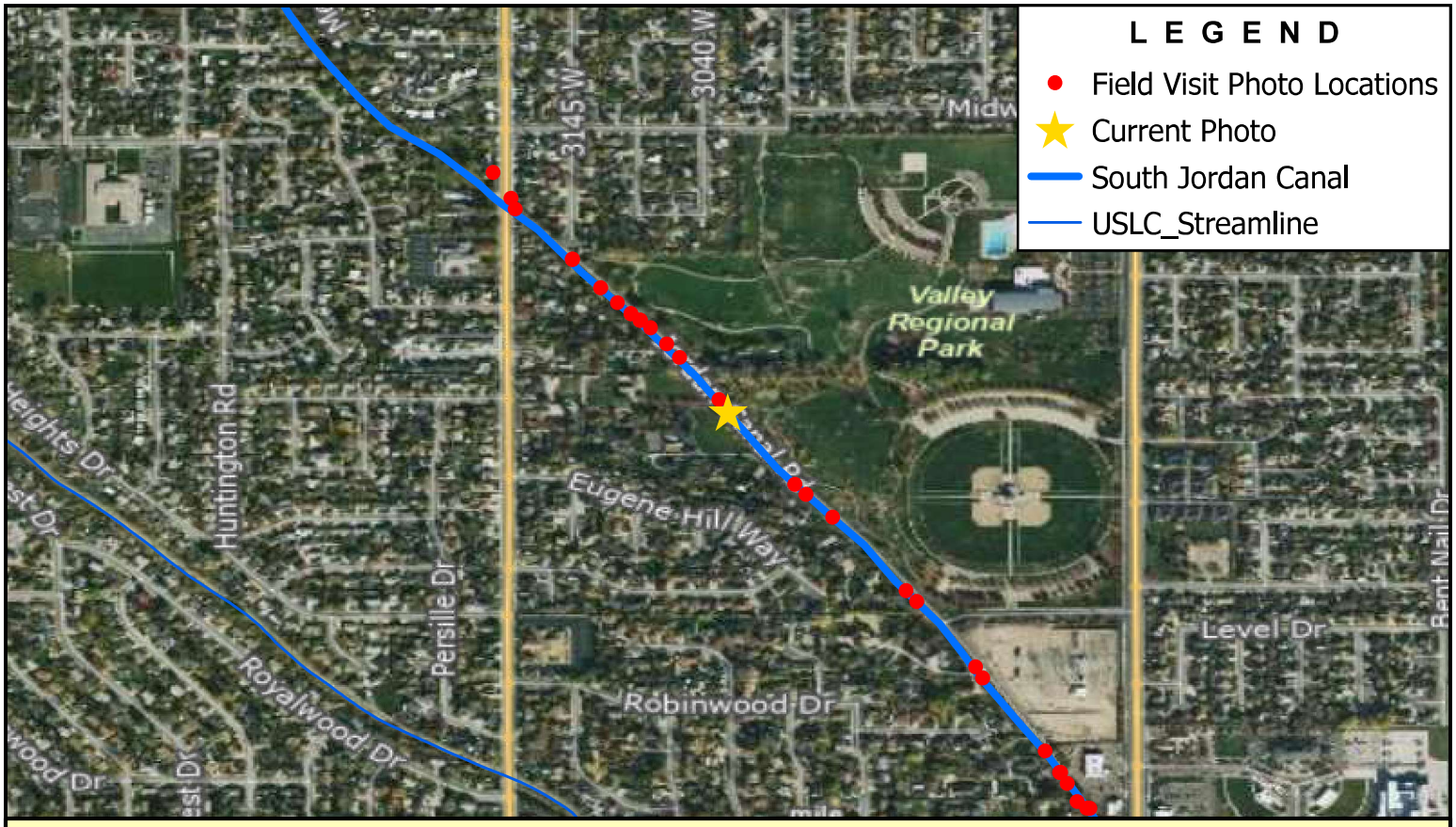
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 18

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Bigarade Ln. Crossing

BOWEN COLLINS & ASSOCIATES

W Bigarade Ln

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

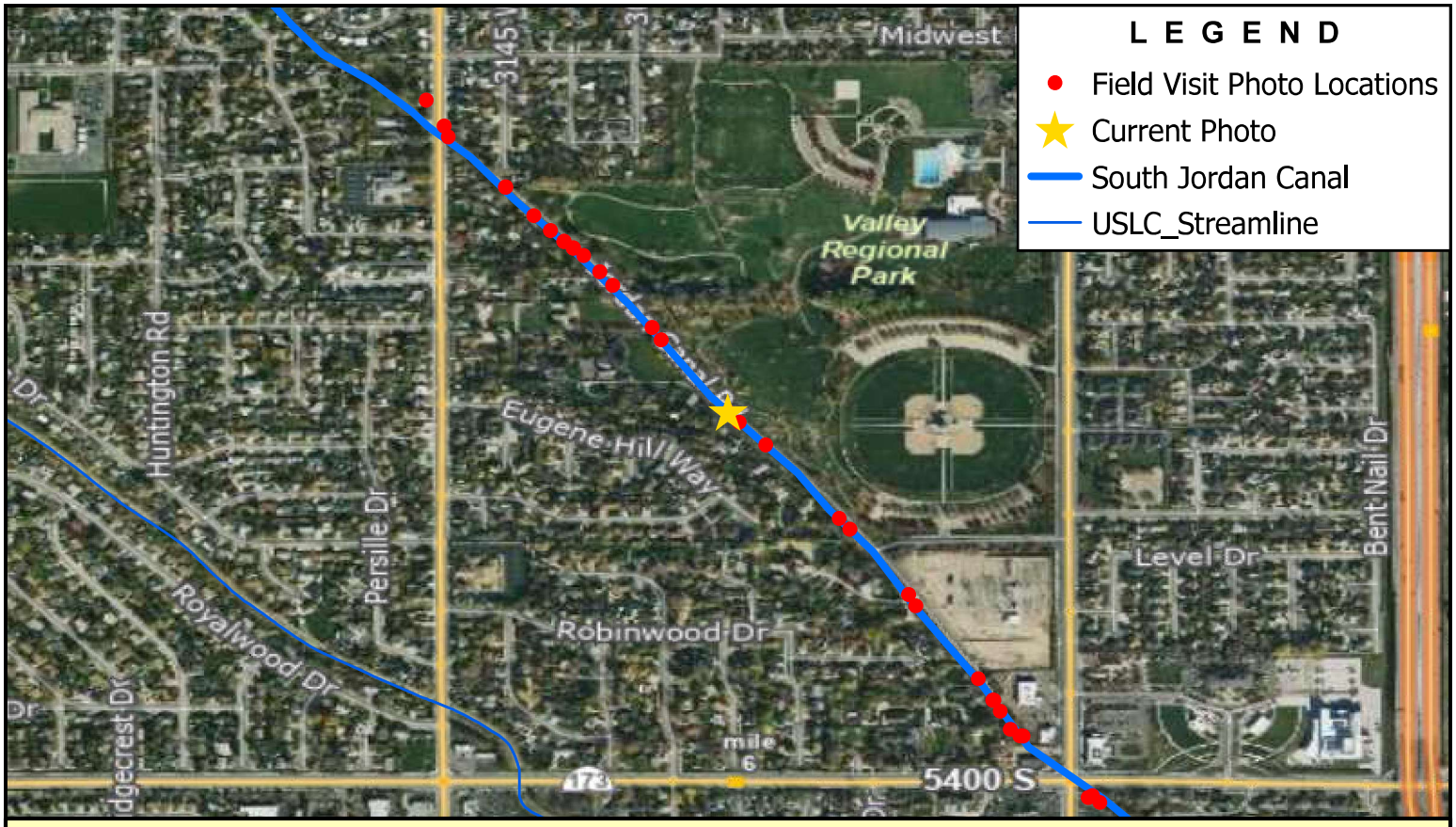
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 19

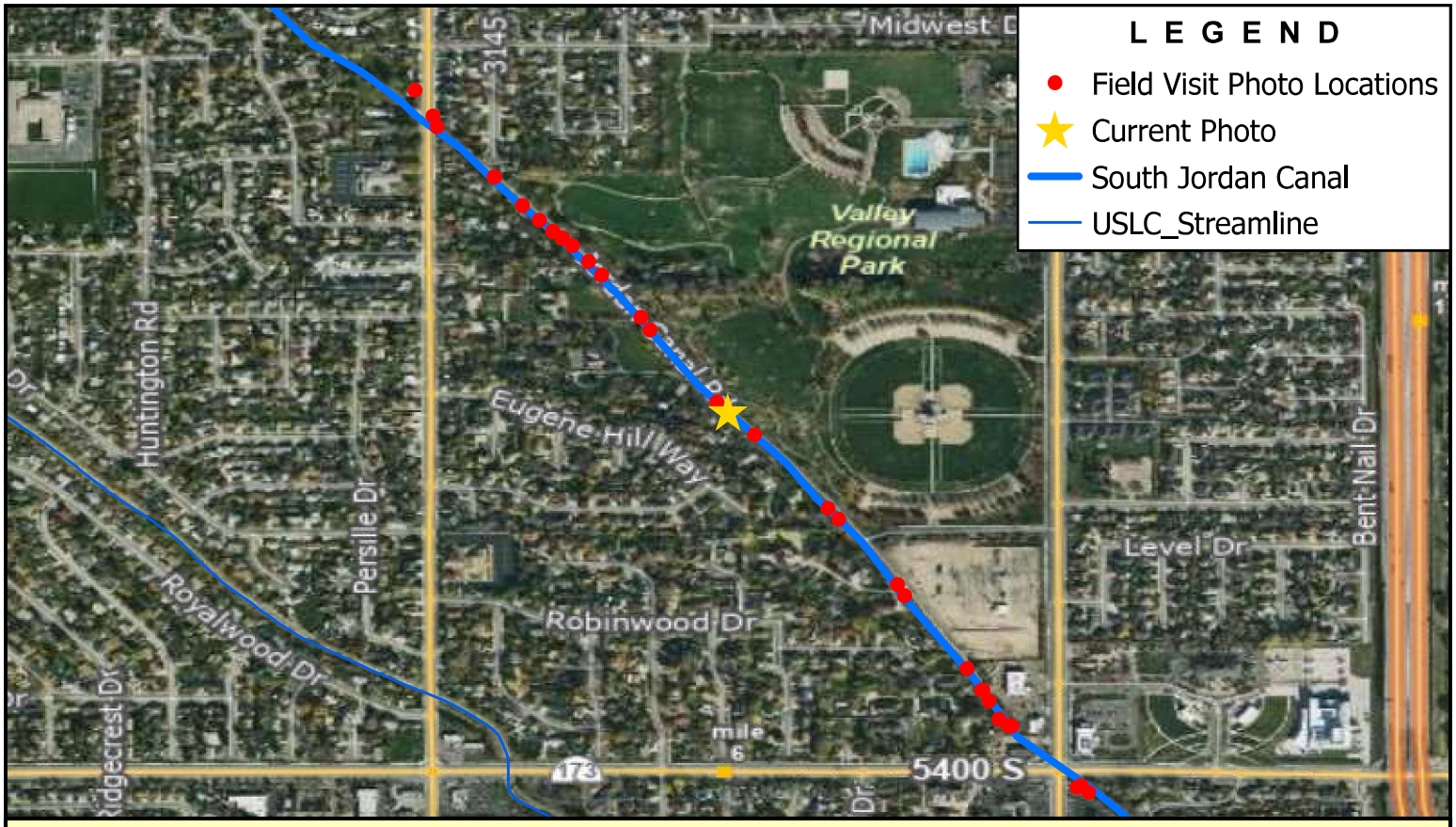
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 5080 South Access Road

BOWEN COLLINS & ASSOCIATES	W 5080 S	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 20

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5080 South Access Road

BOWEN COLLINS & ASSOCIATES

W 5080 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

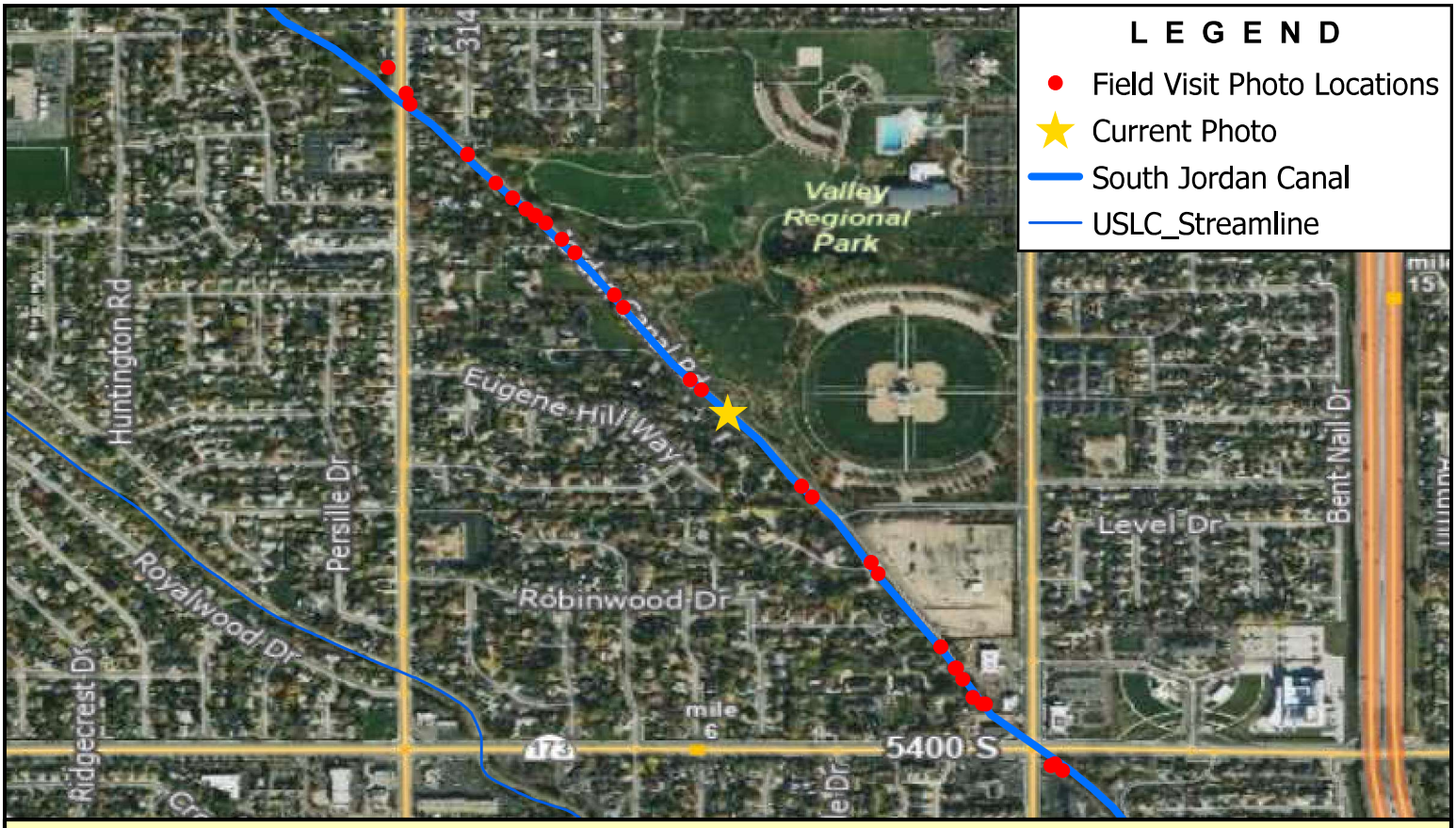
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 21

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Bridge at Approximatley 5090 South

BOWEN COLLINS & ASSOCIATES

W 5090 S

SALT LAKE COUNTY

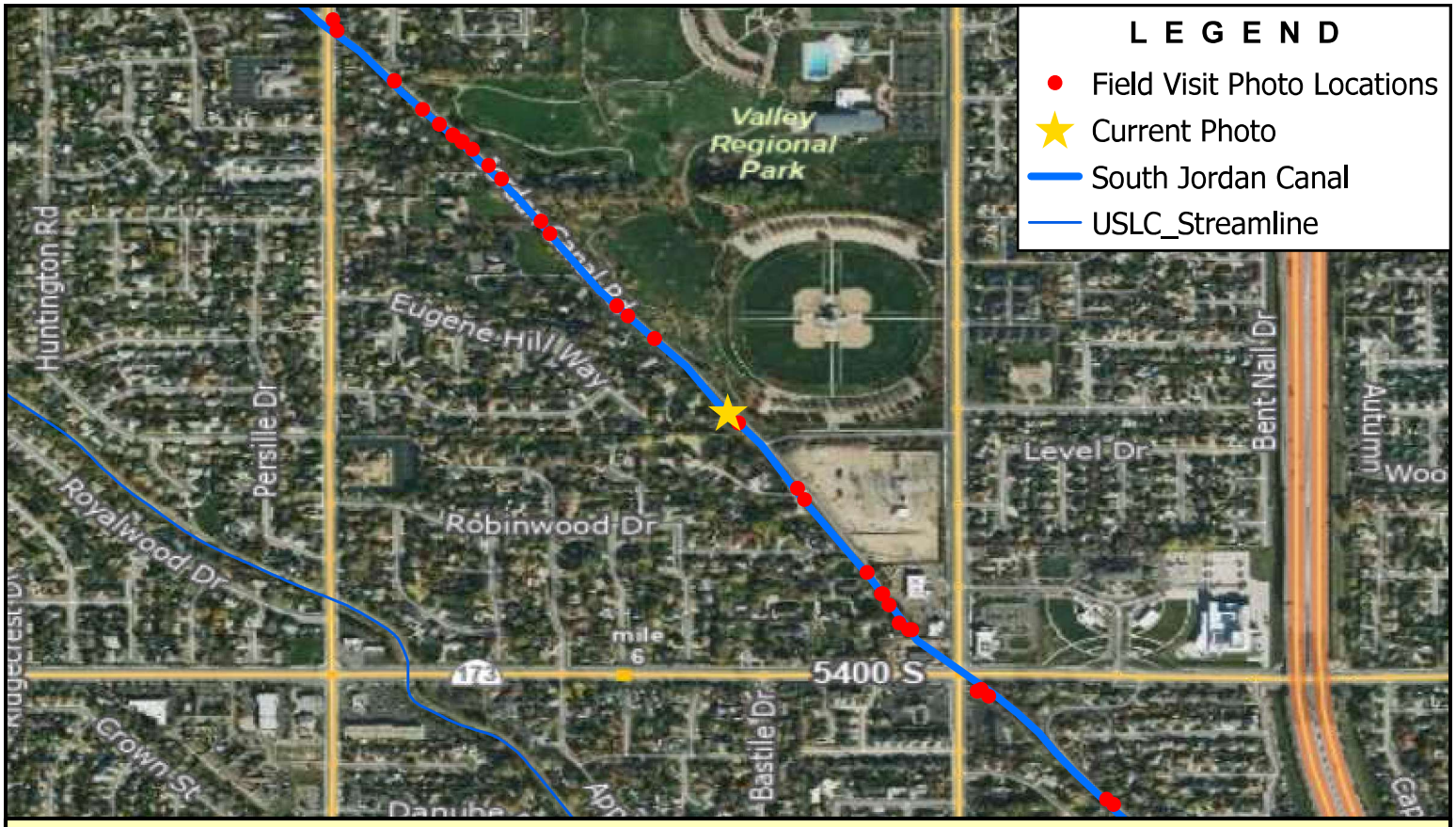
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 22

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 5100 South Driveway

BOWEN COLLINS & ASSOCIATES

W 5100 S

SALT LAKE COUNTY

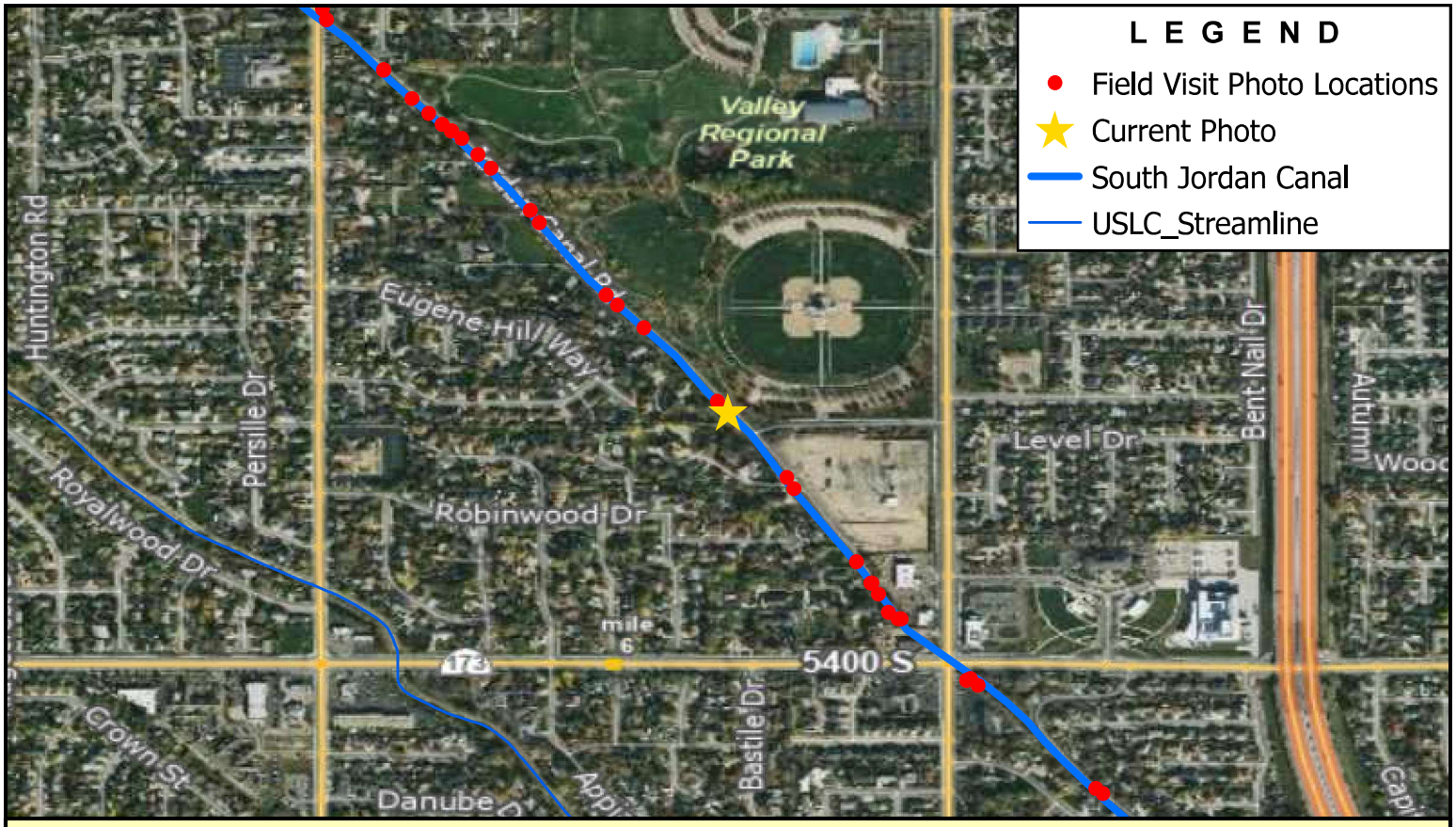
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 23

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5100 South Driveway with Trash Rack

BOWEN COLLINS & ASSOCIATES

W 5100 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 24

Note: Downstream Side of 5245 South

BOWEN COLLINS & ASSOCIATES

W 5245 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 25

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5245 South

BOWEN COLLINS & ASSOCIATES

W 5245 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 26

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5300 South Driveway

BOWEN COLLINS & ASSOCIATES

W 5300 S

SALT LAKE COUNTY

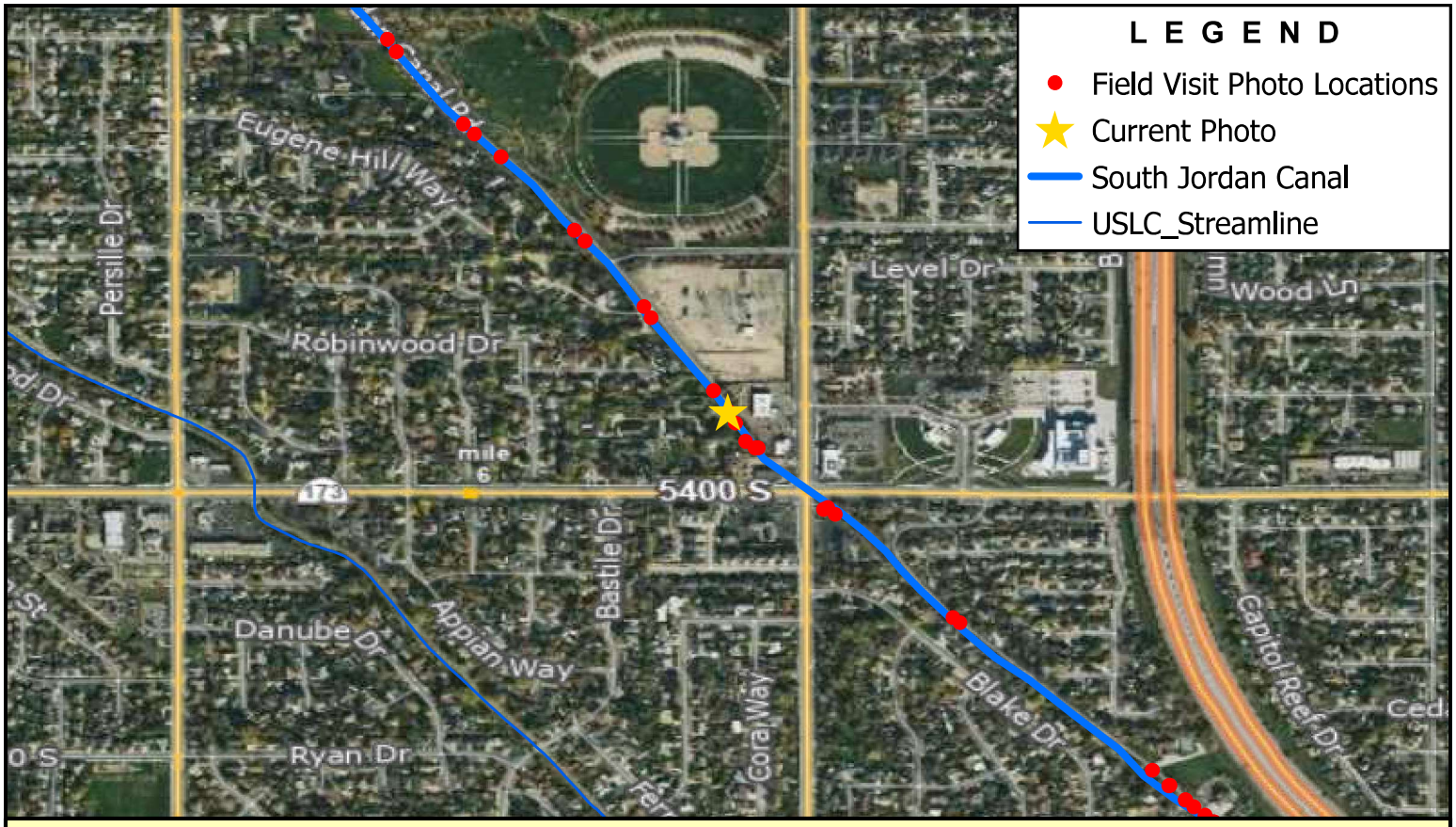
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 27

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5300 South Driveway

BOWEN COLLINS & ASSOCIATES

W 5300 S

SALT LAKE COUNTY

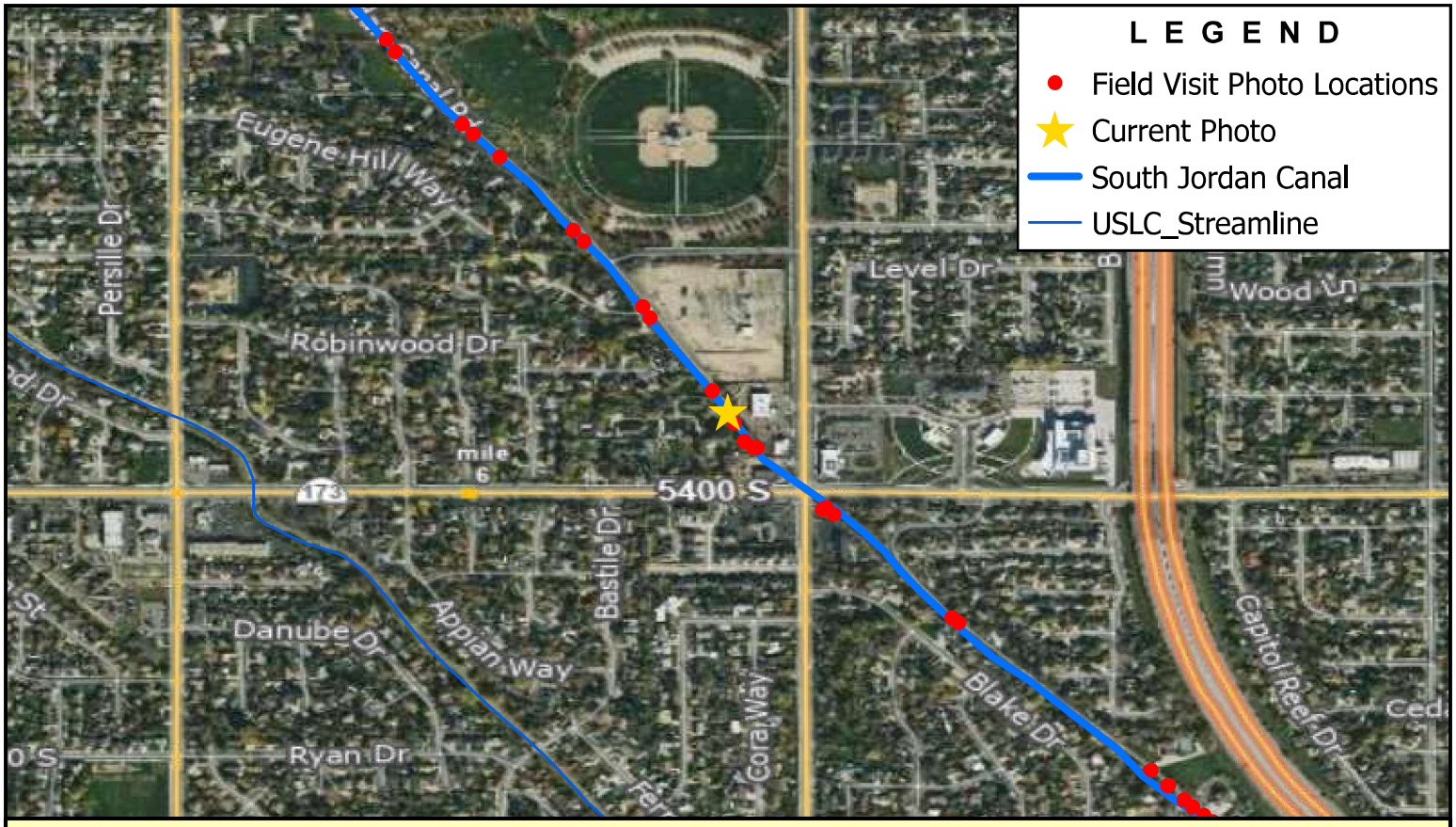
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 28

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 5319 South S Jordan Canal Rd.

BOWEN COLLINS & ASSOCIATES

S Jordan Canal Rd/ W 5319 S

SALT LAKE COUNTY

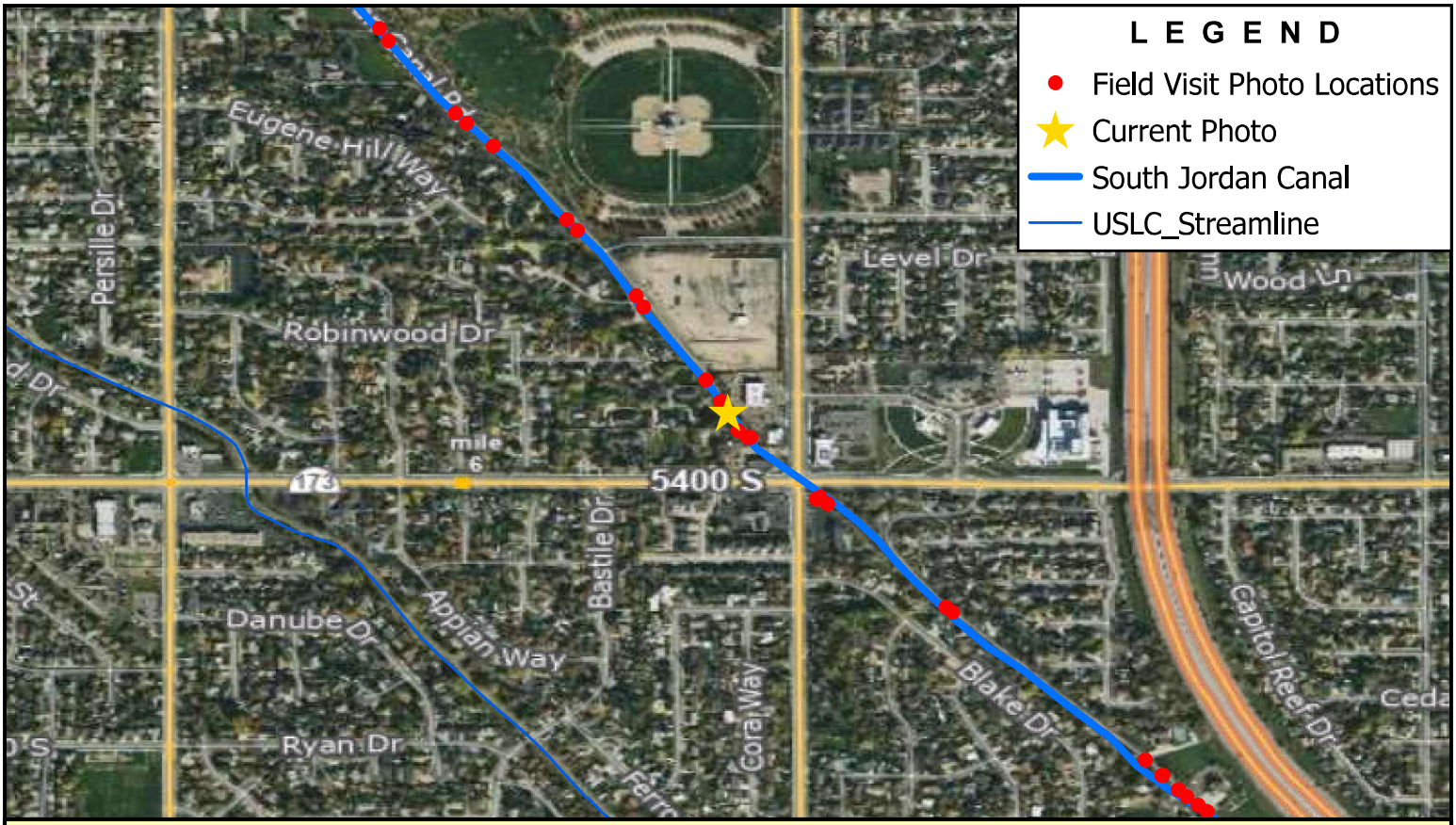
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 29

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5319 South S Jordan Canal Rd.

BOWEN COLLINS & ASSOCIATES

S Jordan Canal Rd/ W 5319 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 30

Note: Downstream Side of 5350 South Driveway

BOWEN COLLINS & ASSOCIATES

W 5350 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 31

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 5350 South Driveway

BOWEN COLLINS & ASSOCIATES

W 5350 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 32

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 2700 W / 5400 South Culvert

BOWEN COLLINS & ASSOCIATES

S 2700 W / 5400 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 33

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 2700 W / 5400 South Culvert

BOWEN COLLINS & ASSOCIATES

S 2700 W / 5400 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 34

Note: Control Structure by Marsha Brooks Circle

BOWEN COLLINS & ASSOCIATES

By Marsha Brooks Circle

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 35

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: 5400 South Dumpout

BOWEN COLLINS & ASSOCIATES

5400 South Dumpout

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 36

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5505 South Driveway

BOWEN COLLINS & ASSOCIATES	5505 S 2750 W	NORTH:	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 37

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 5505 South Driveway

BOWEN COLLINS & ASSOCIATES

5505 S 2750 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 38

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5629 South Driveway

BOWEN COLLINS & ASSOCIATES	5629 S 2750 W	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 39

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 5629 South Driveway

BOWEN COLLINS & ASSOCIATES

5629 S 2750 W

SALT LAKE COUNTY

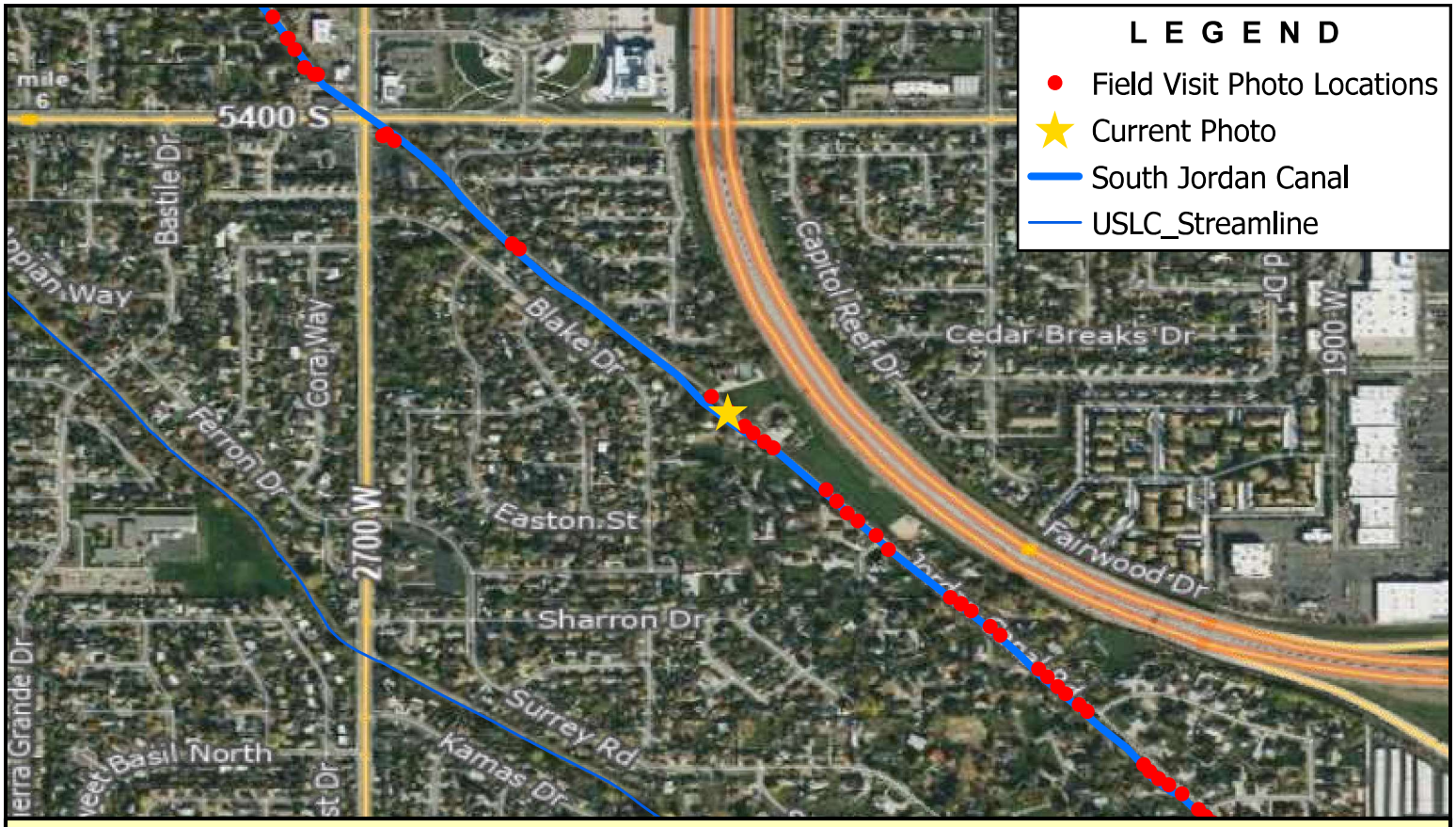
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 40

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 5644 South Driveway

BOWEN COLLINS & ASSOCIATES

5644 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 41

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 5644 South Driveway

BOWEN COLLINS & ASSOCIATES

5644 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 42

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5646 South Driveway

BOWEN COLLINS & ASSOCIATES

5646 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 43

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 5646 South Driveway

BOWEN COLLINS & ASSOCIATES

5646 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 44

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5650 South Driveway

BOWEN COLLINS & ASSOCIATES	5650 S 2005 W	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 45

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 5650 South Driveway

BOWEN COLLINS & ASSOCIATES

5650 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

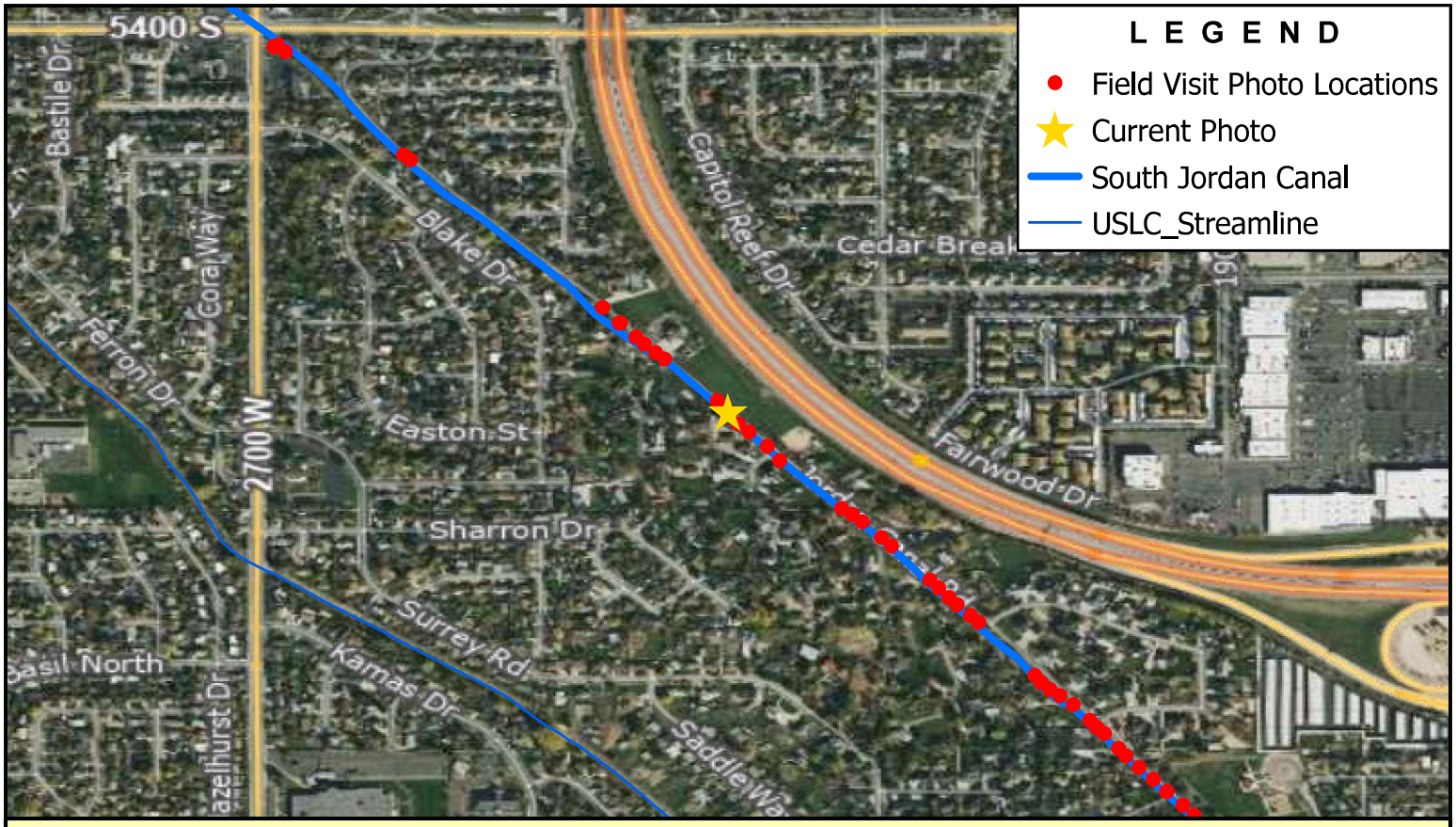
PHOTOGRAPH NO. 46

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5691 South Access Road

BOWEN COLLINS & ASSOCIATES	5691 S 2005 W	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 47

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5691 South Access Road

BOWEN COLLINS & ASSOCIATES

5691 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

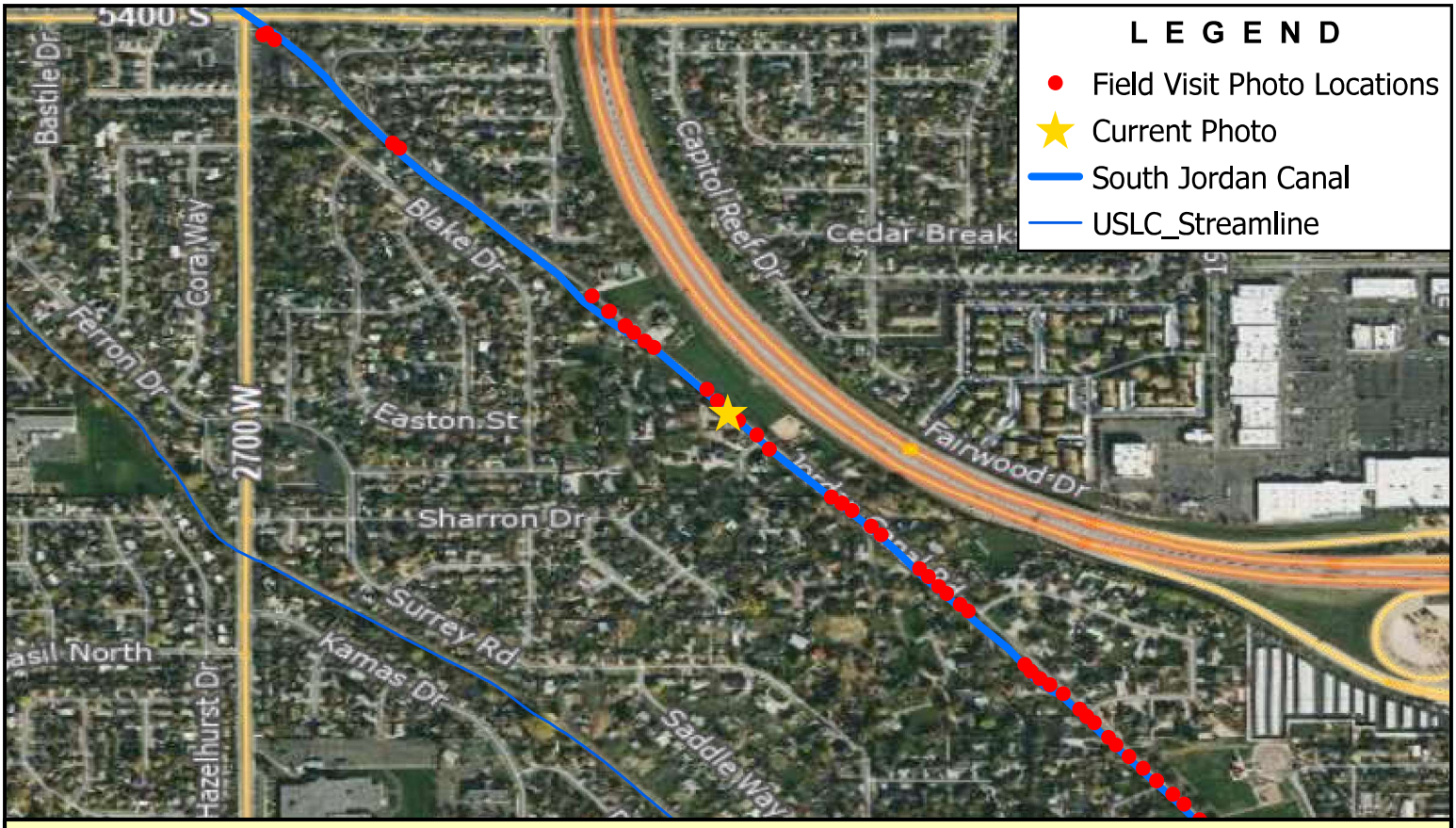
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 48

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 5723 South Driveway

BOWEN COLLINS & ASSOCIATES

5723 S Jordan Canal Road

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

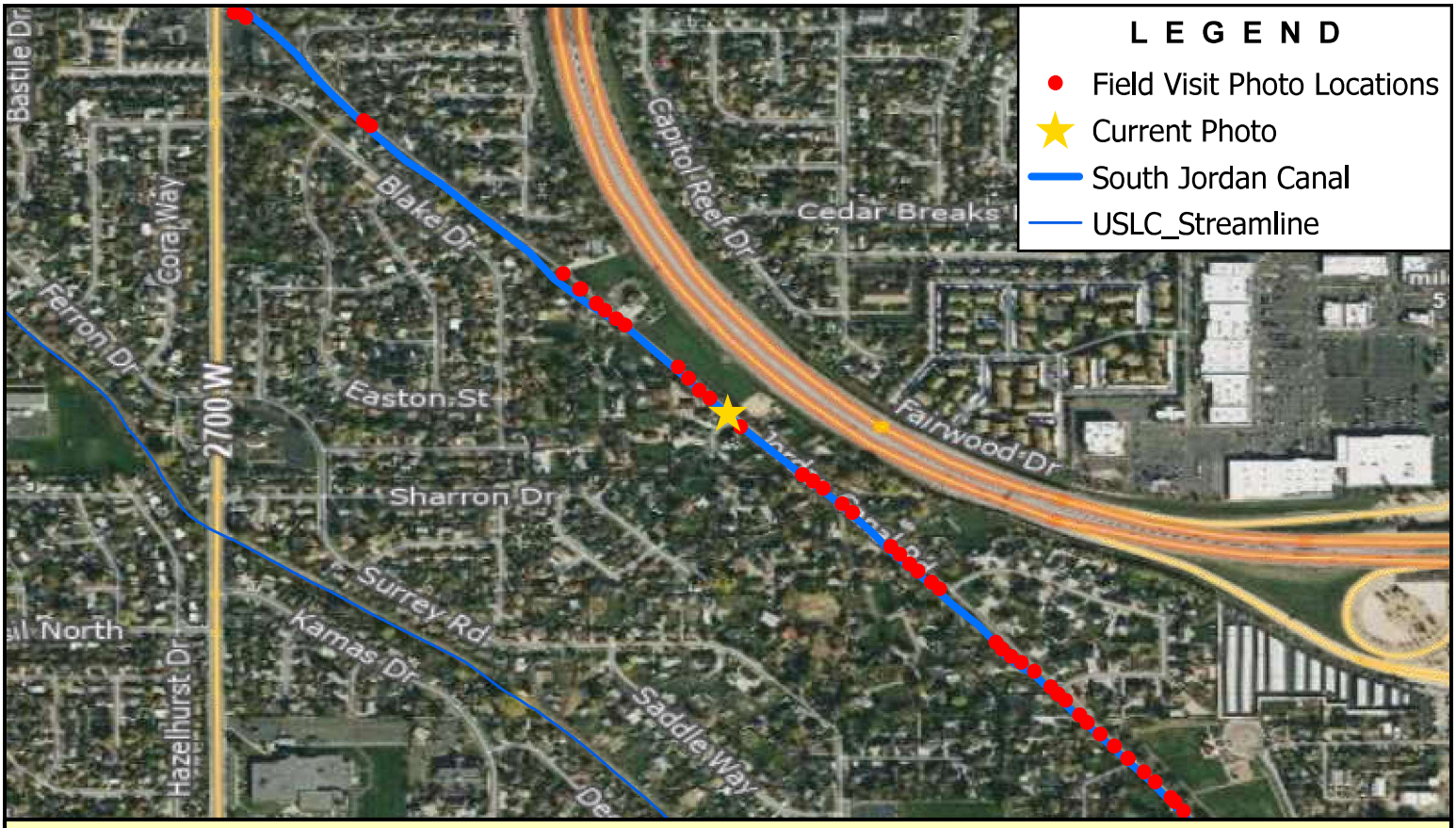
PHOTOGRAPH NO. 49

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 5723 South Driveway

BOWEN COLLINS & ASSOCIATES	5723 S Jordan Canal Road	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 50

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Player Ridge Cir.

BOWEN COLLINS & ASSOCIATES

S Player Ridge Cir

SALT LAKE COUNTY

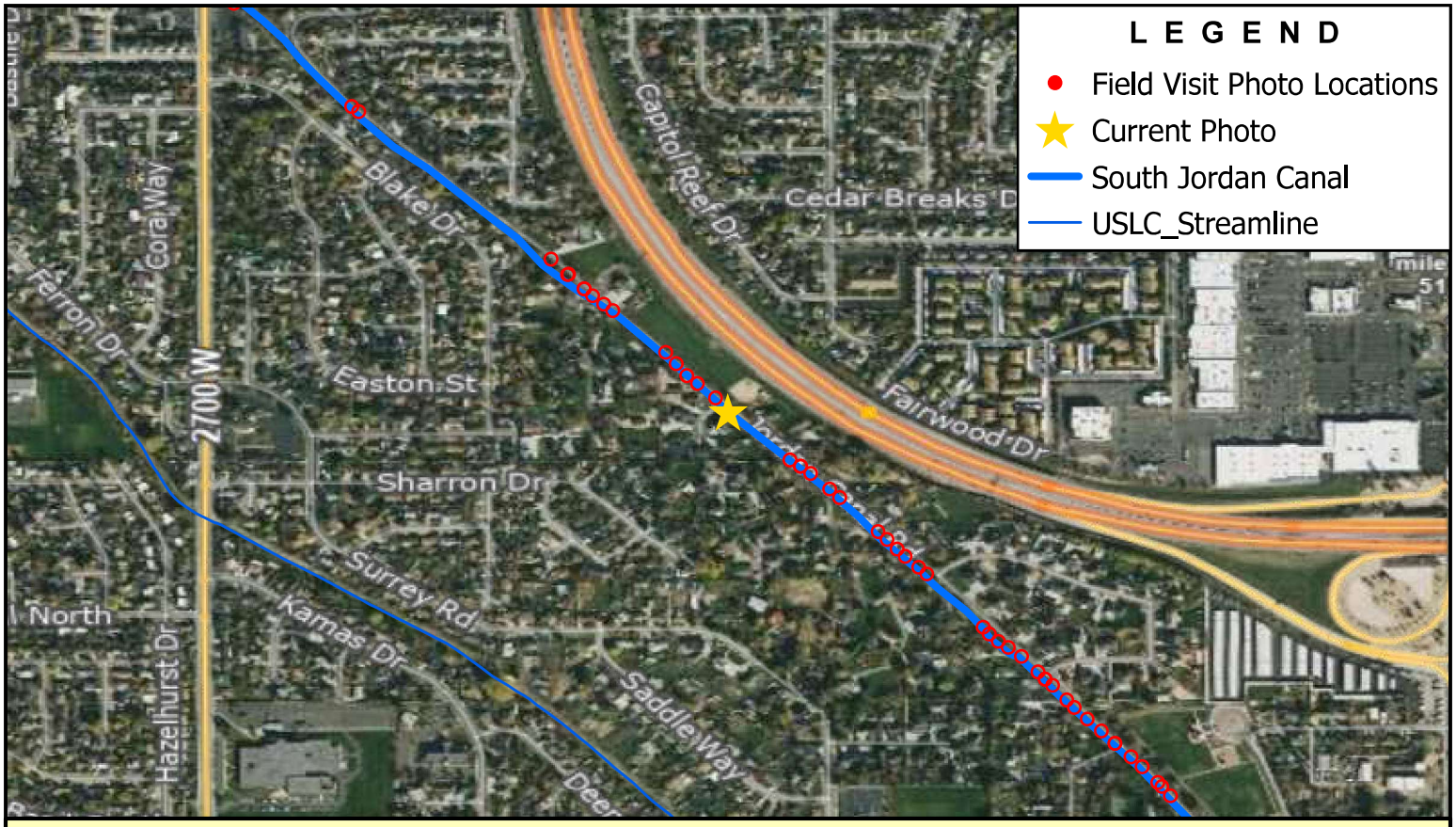
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 51

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Player Ridge Cir.

BOWEN COLLINS & ASSOCIATES

S Player Ridge Cir

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

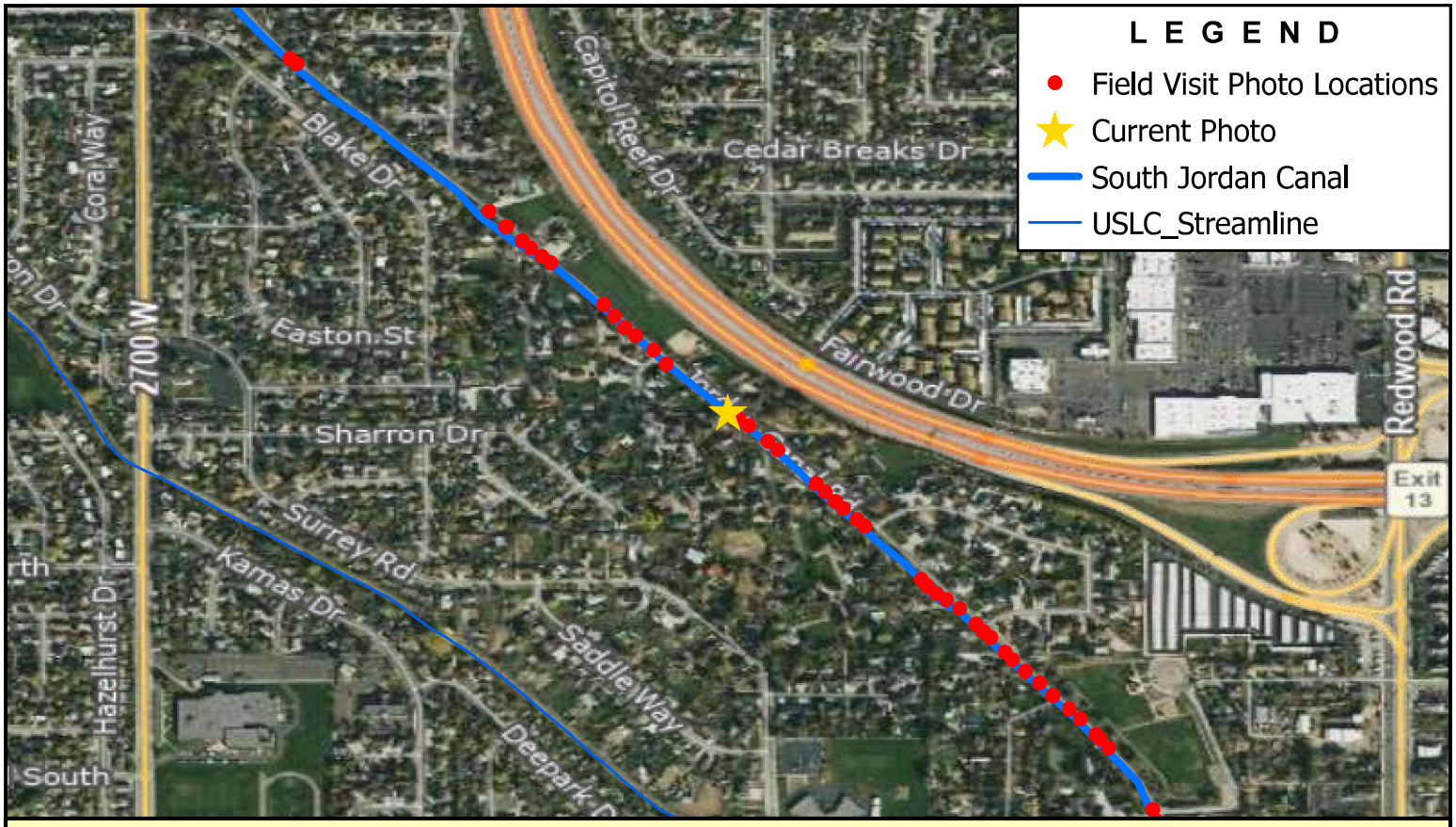
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 52

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Angle Ln.

BOWEN COLLINS & ASSOCIATES

Angle Ln

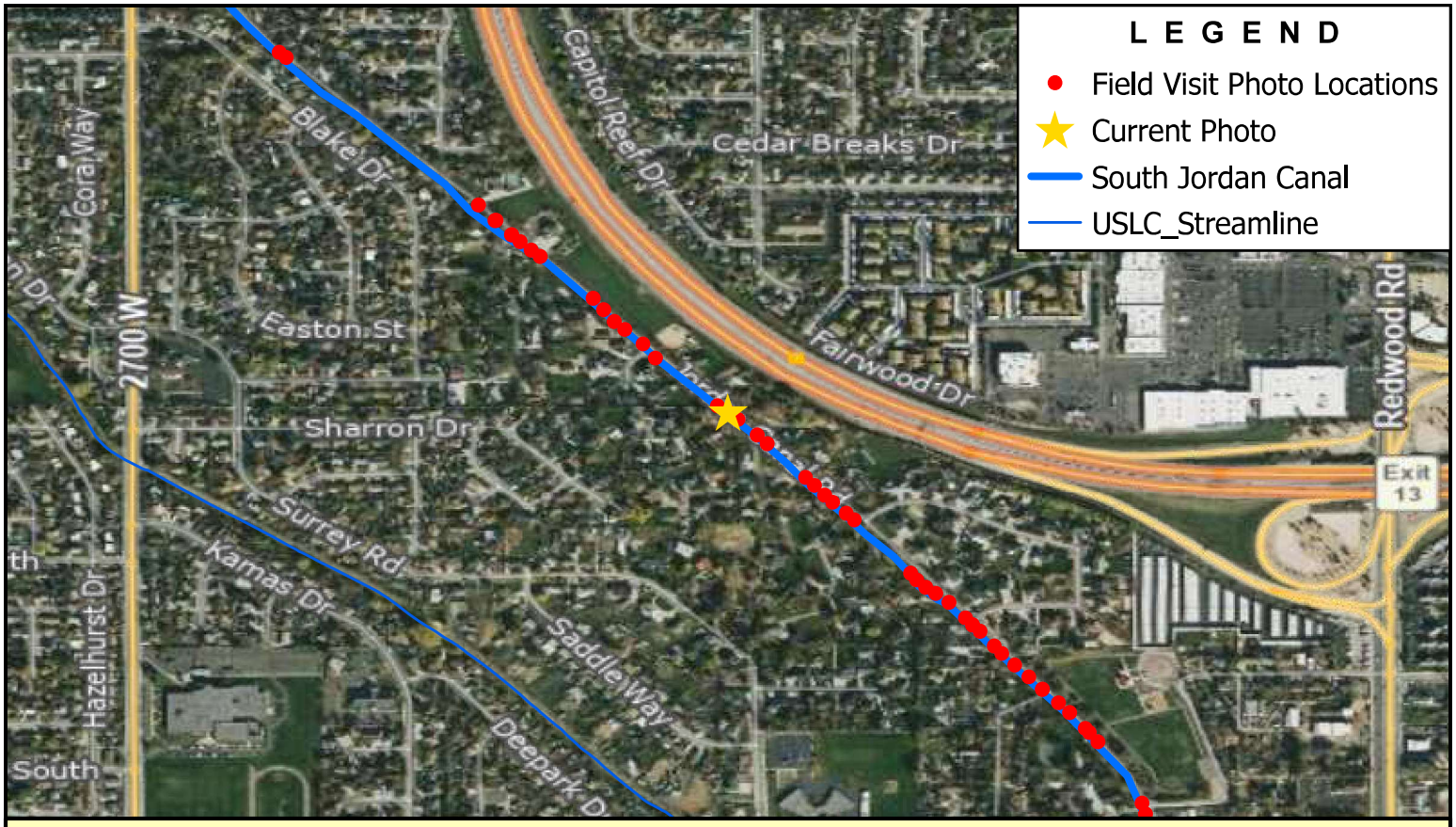
SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 53



Note: Upstream Side of Angle Ln.

BOWEN COLLINS & ASSOCIATES

Angle Ln

SALT LAKE COUNTY

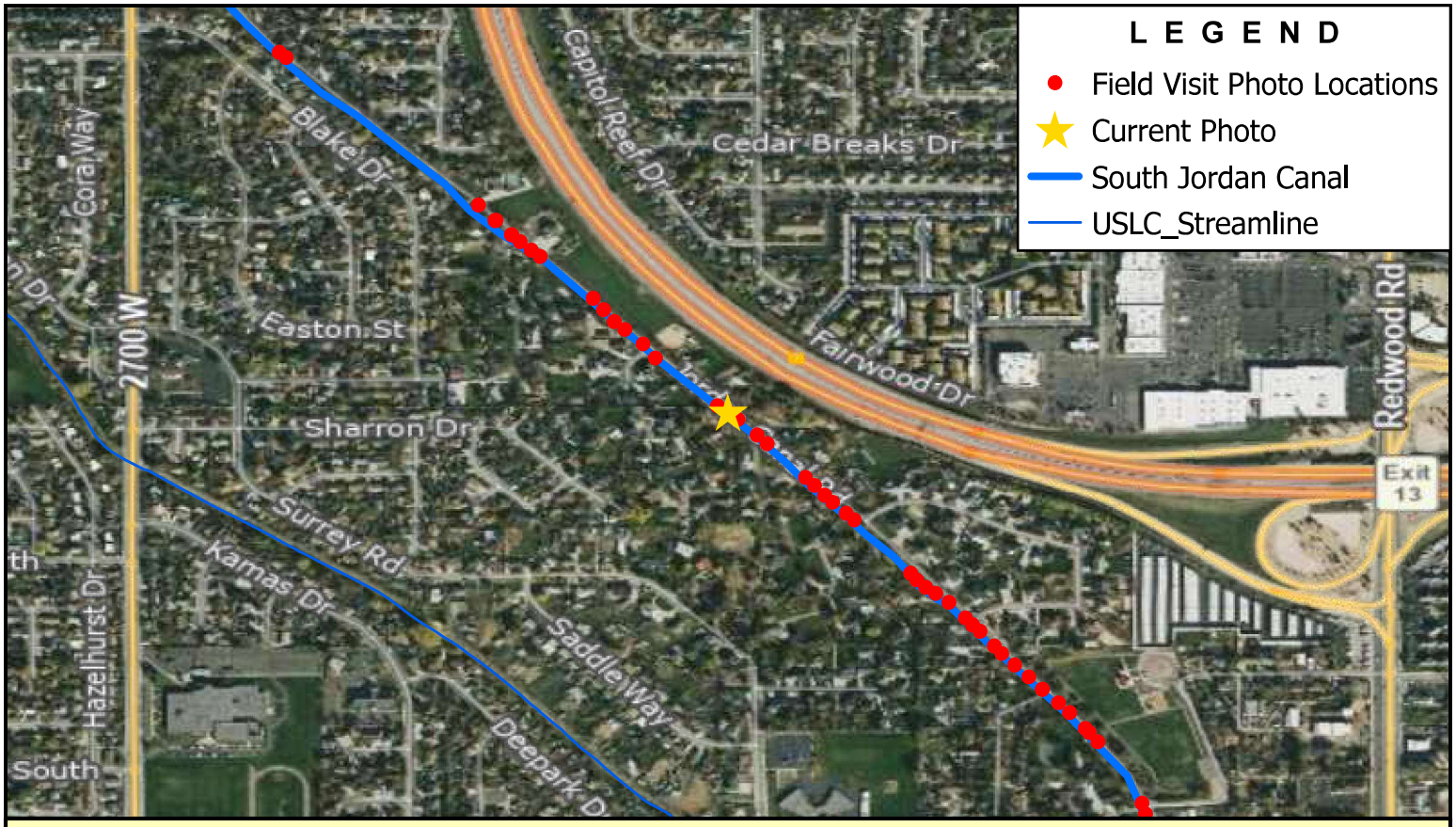
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 54

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 5824 South Driveway

BOWEN COLLINS & ASSOCIATES

5824 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 55

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 5824 South Driveway

BOWEN COLLINS & ASSOCIATES

5824 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 56

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5834 South Access Road

BOWEN COLLINS & ASSOCIATES

5834 S 2005 W

SALT LAKE COUNTY

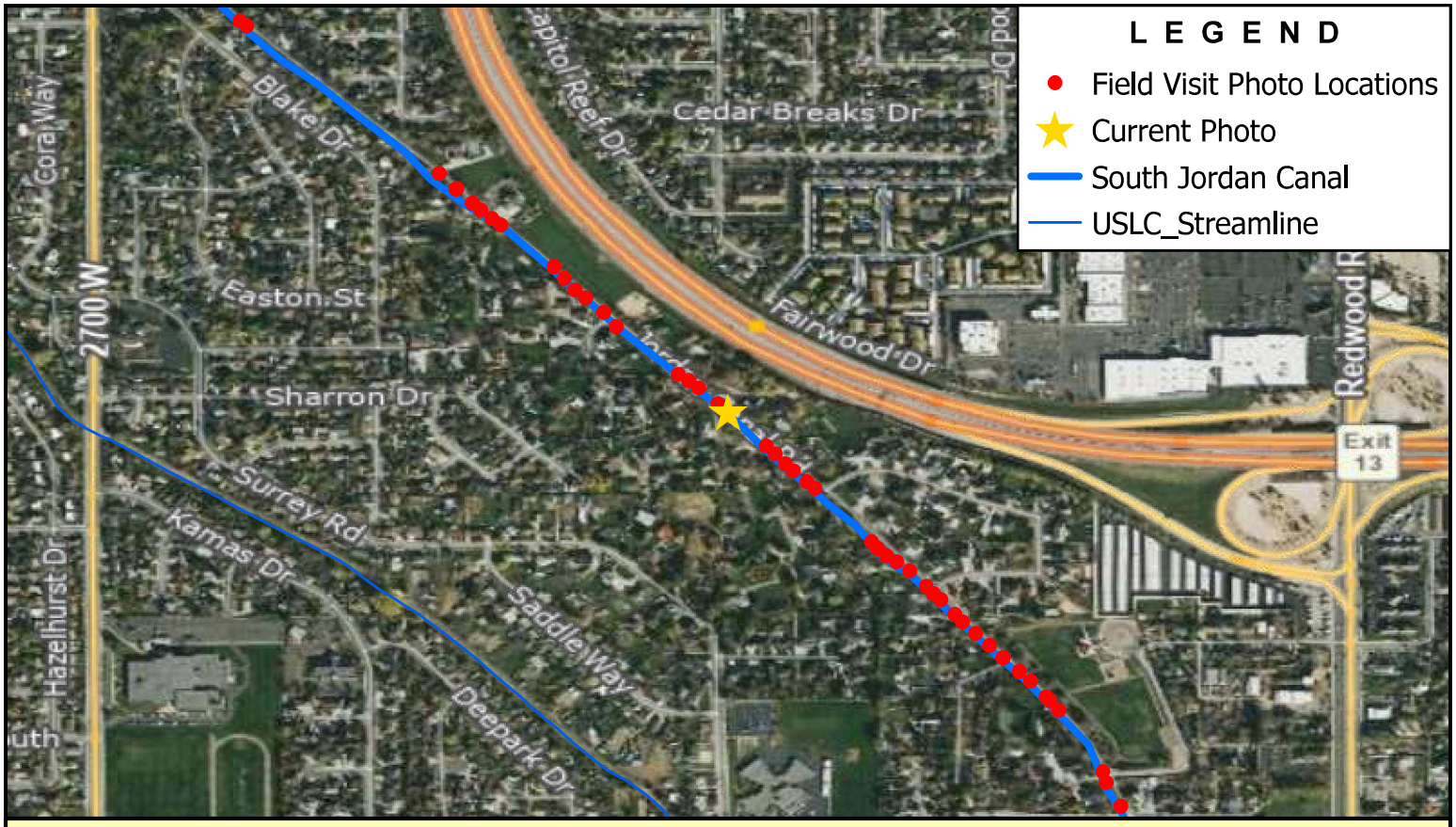
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 57

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5834 South Access Road

BOWEN COLLINS & ASSOCIATES

5834 S 2005 W

SALT LAKE COUNTY

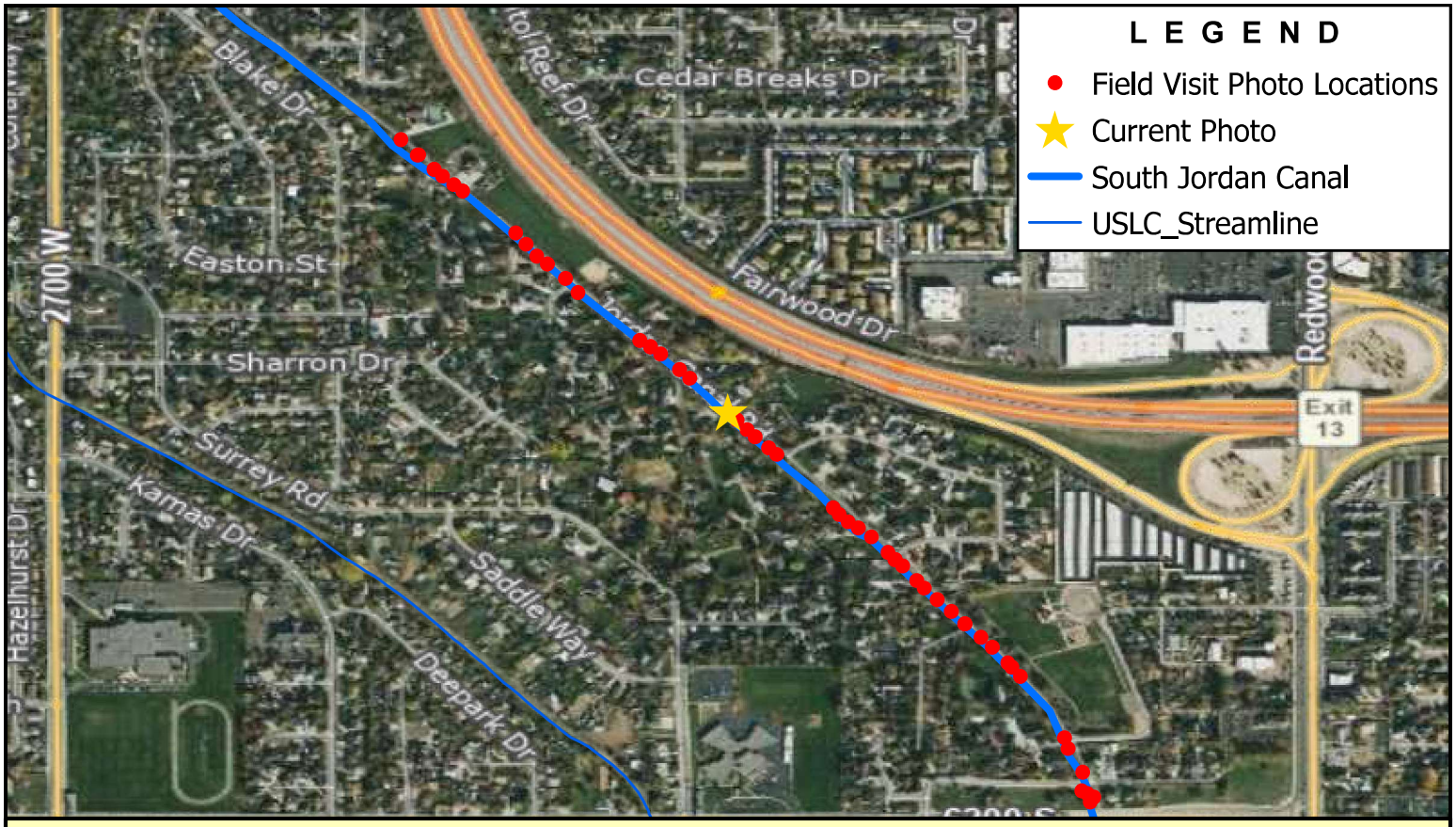
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 58

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 5860 South Driveway

BOWEN COLLINS & ASSOCIATES

5860 s 2005 w

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

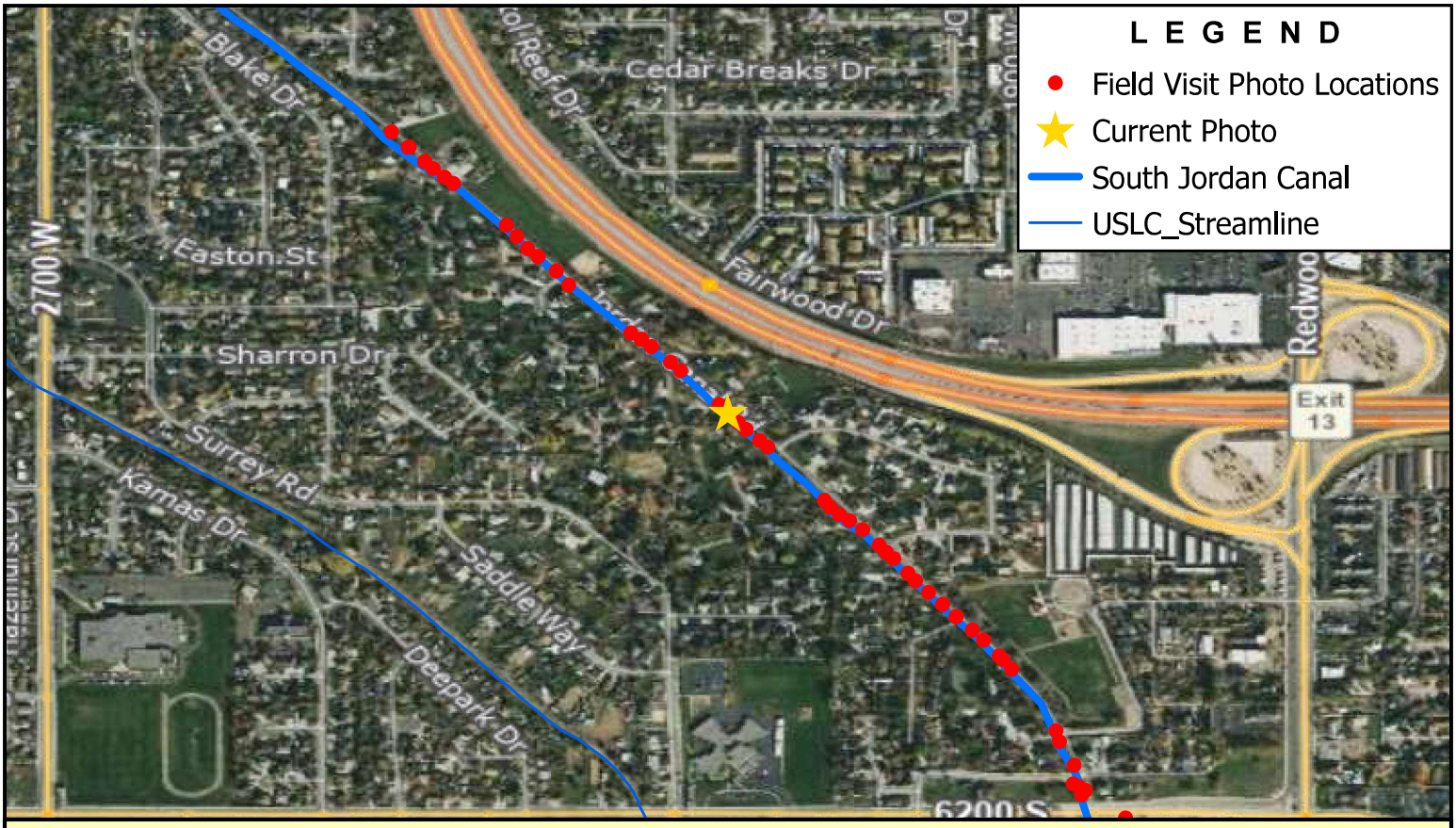
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 59

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5860 South Driveway

BOWEN COLLINS & ASSOCIATES

5860 s 2005 w

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

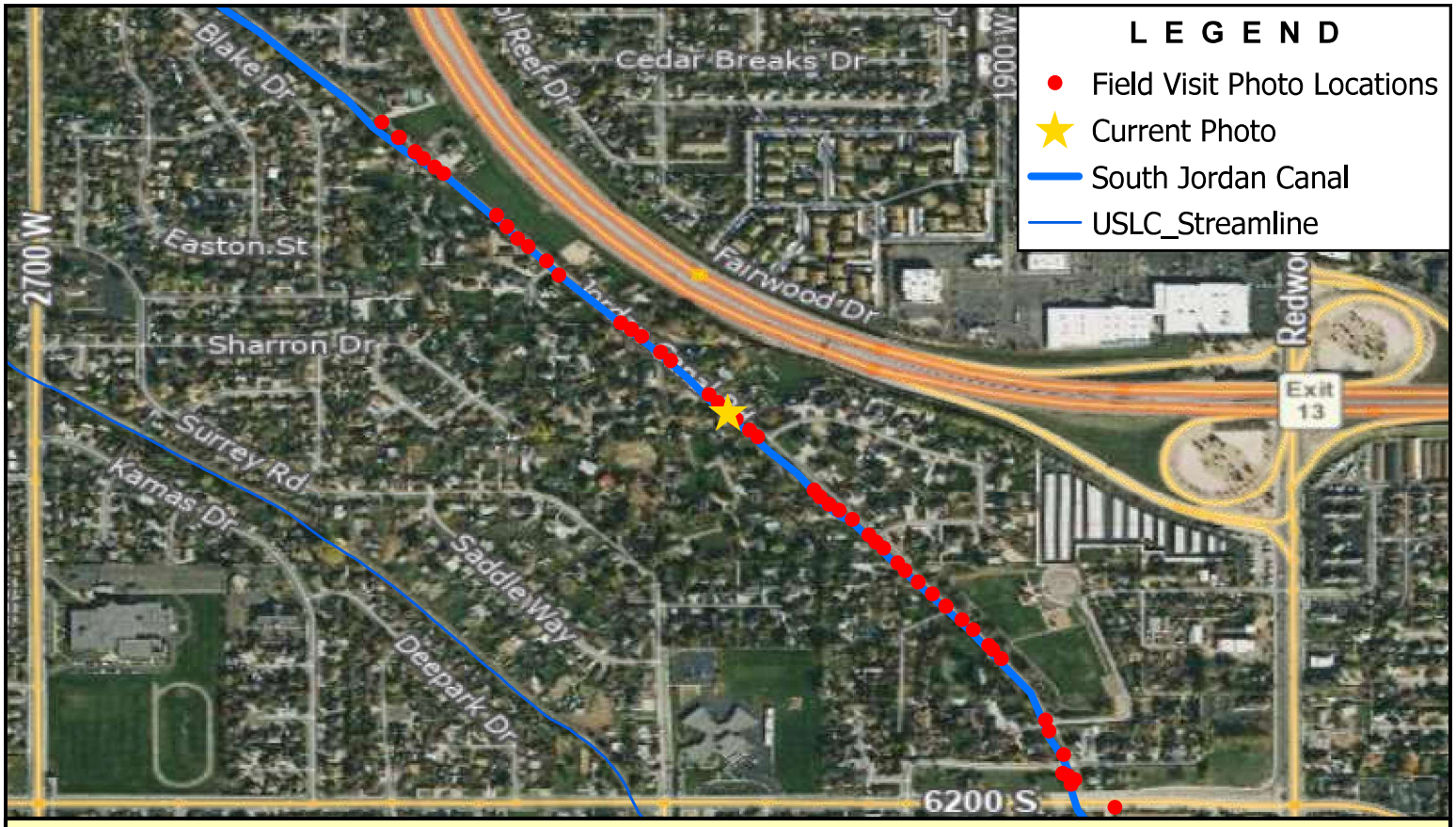
NORTH:

NORTH

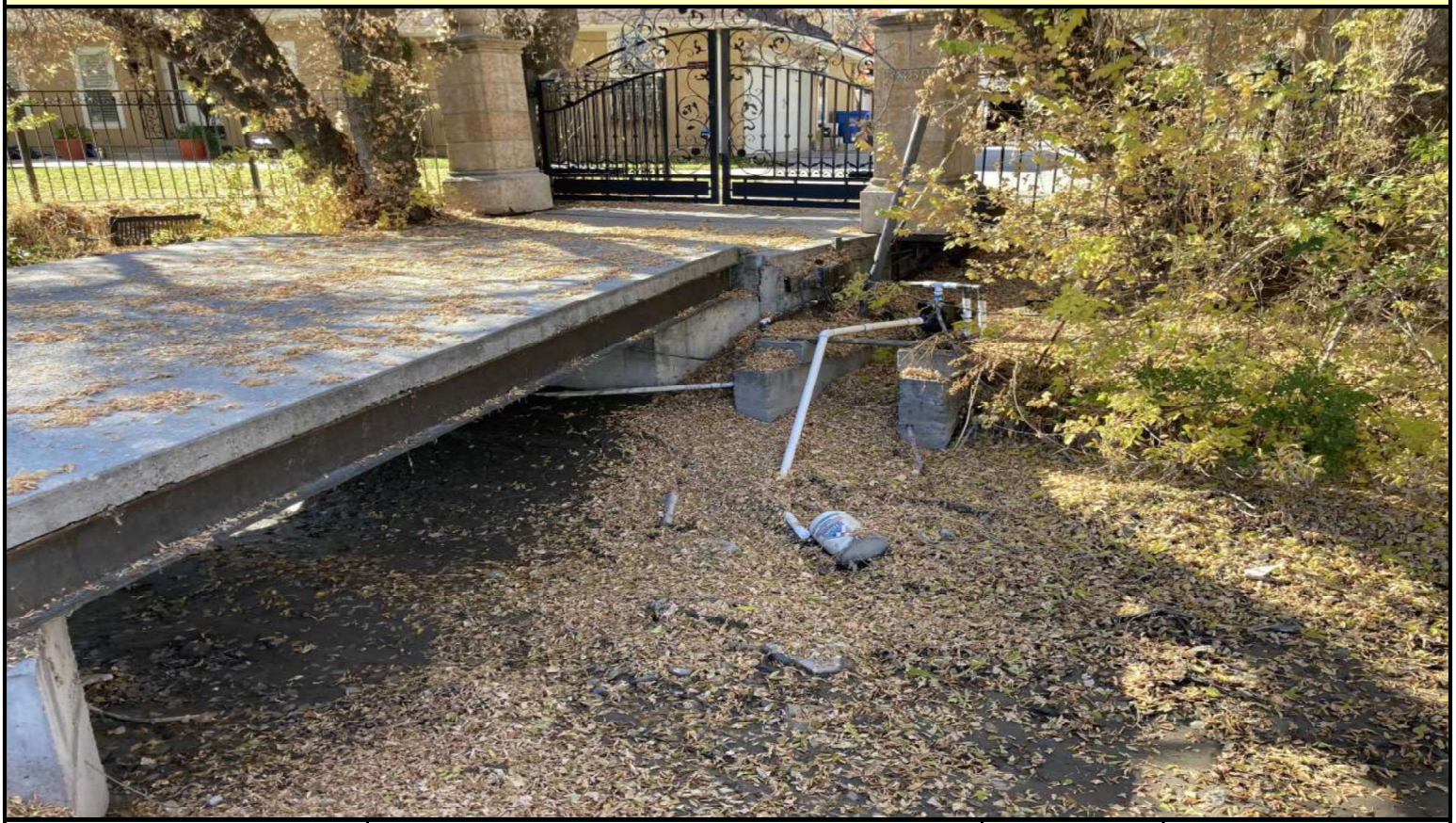
SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 60

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 5880 South Driveway



BOWEN COLLINS & ASSOCIATES

5873 S 2005 W

SALT LAKE COUNTY

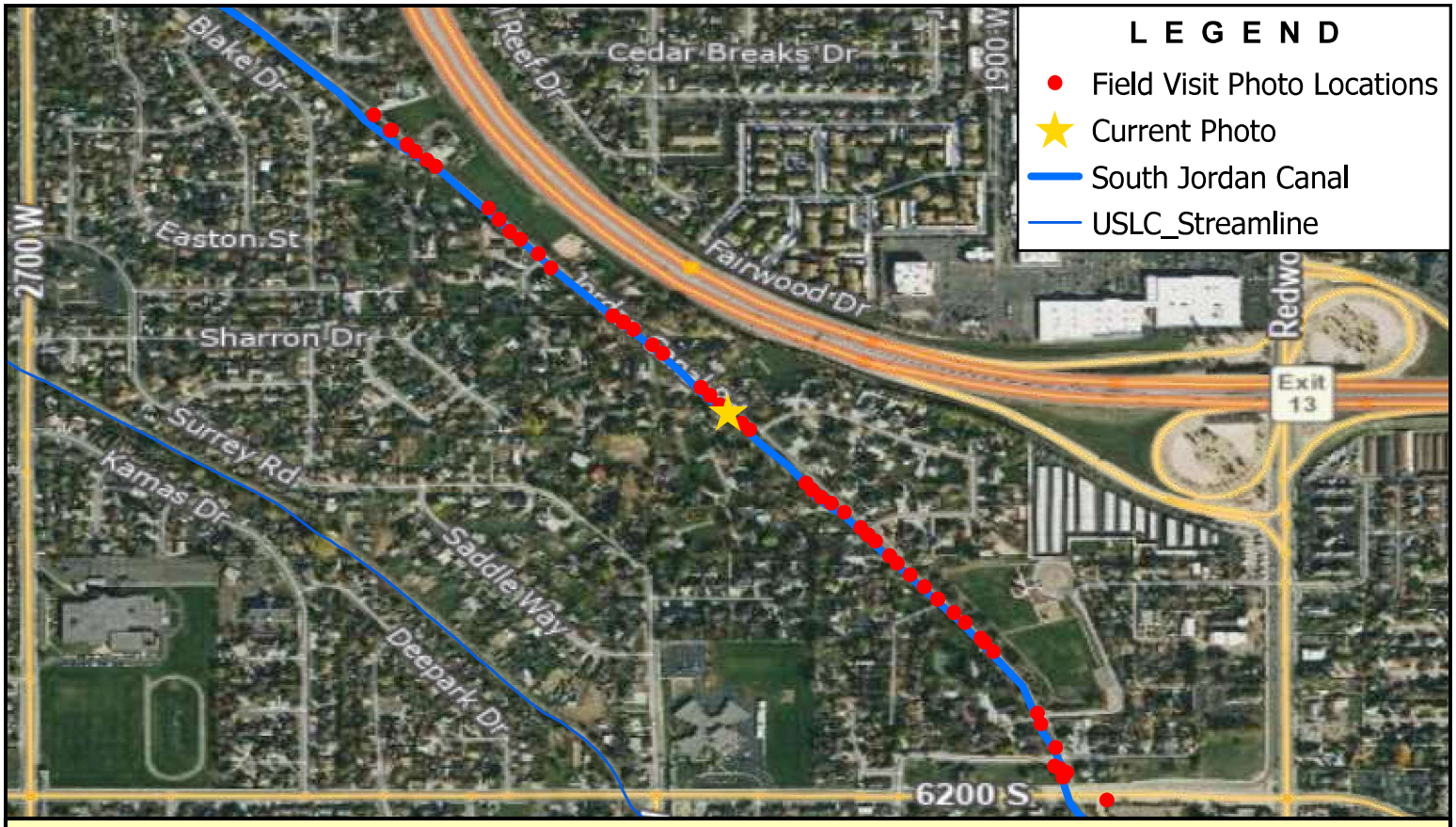
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 61

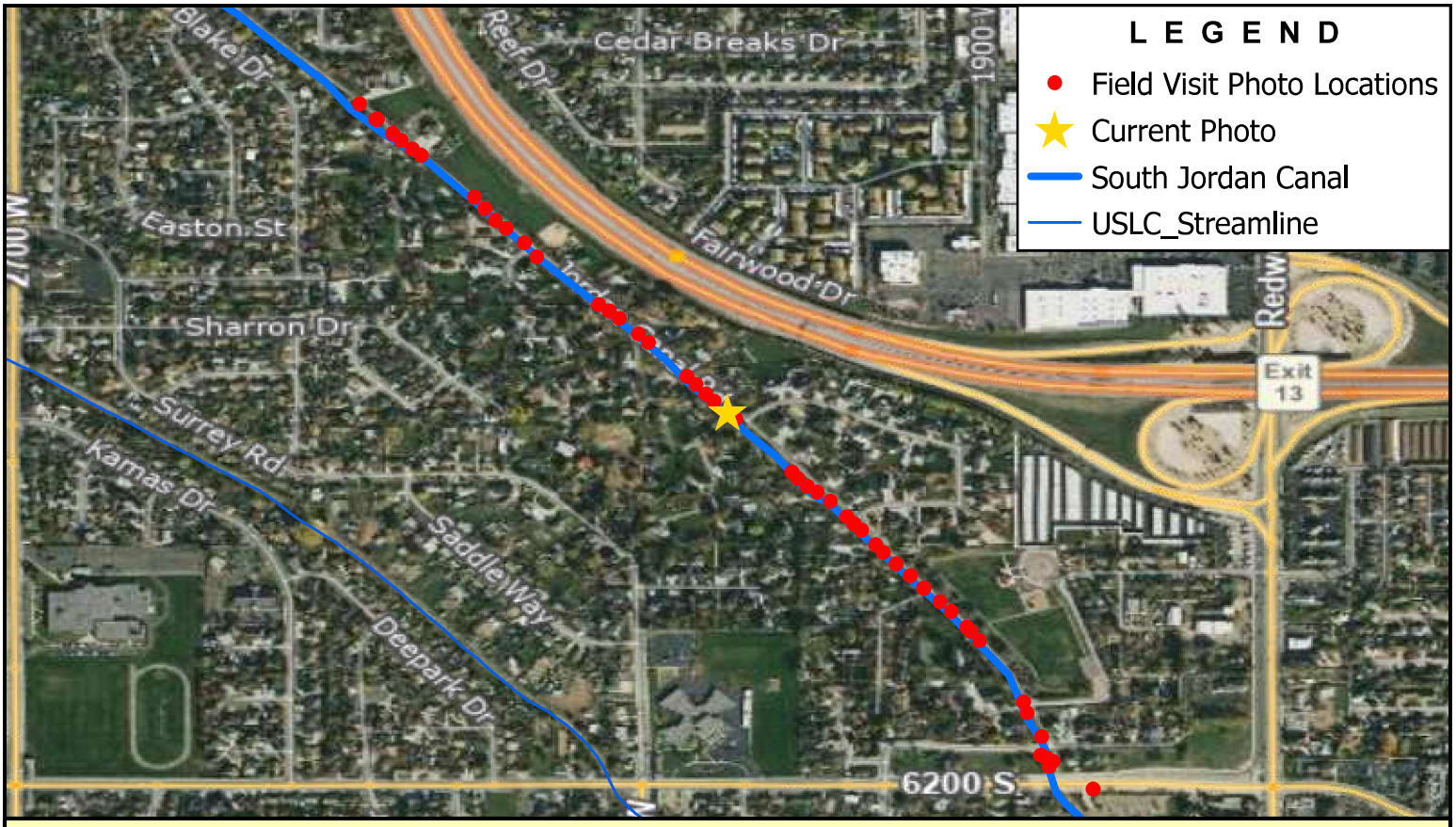
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5880 South Driveway

BOWEN COLLINS & ASSOCIATES	5873 S 2005 W	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 62

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Farm Ridge Rd.

BOWEN COLLINS & ASSOCIATES

W Farm Ridge Rd

SALT LAKE COUNTY

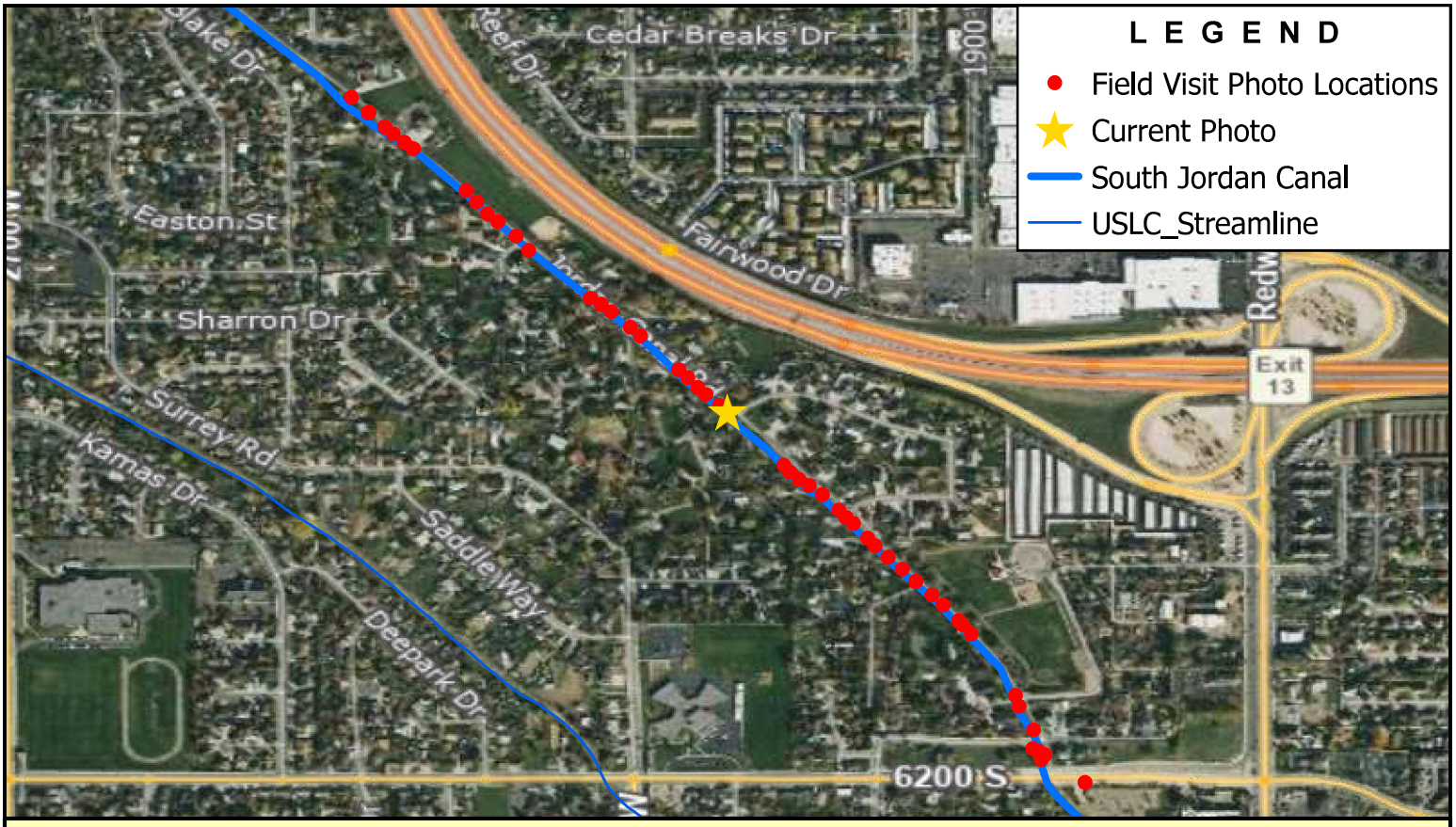
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 63



Note: Upstream Side of Farm Ridge Rd.

BOWEN COLLINS & ASSOCIATES

W Farm Ridge Rd

SALT LAKE COUNTY

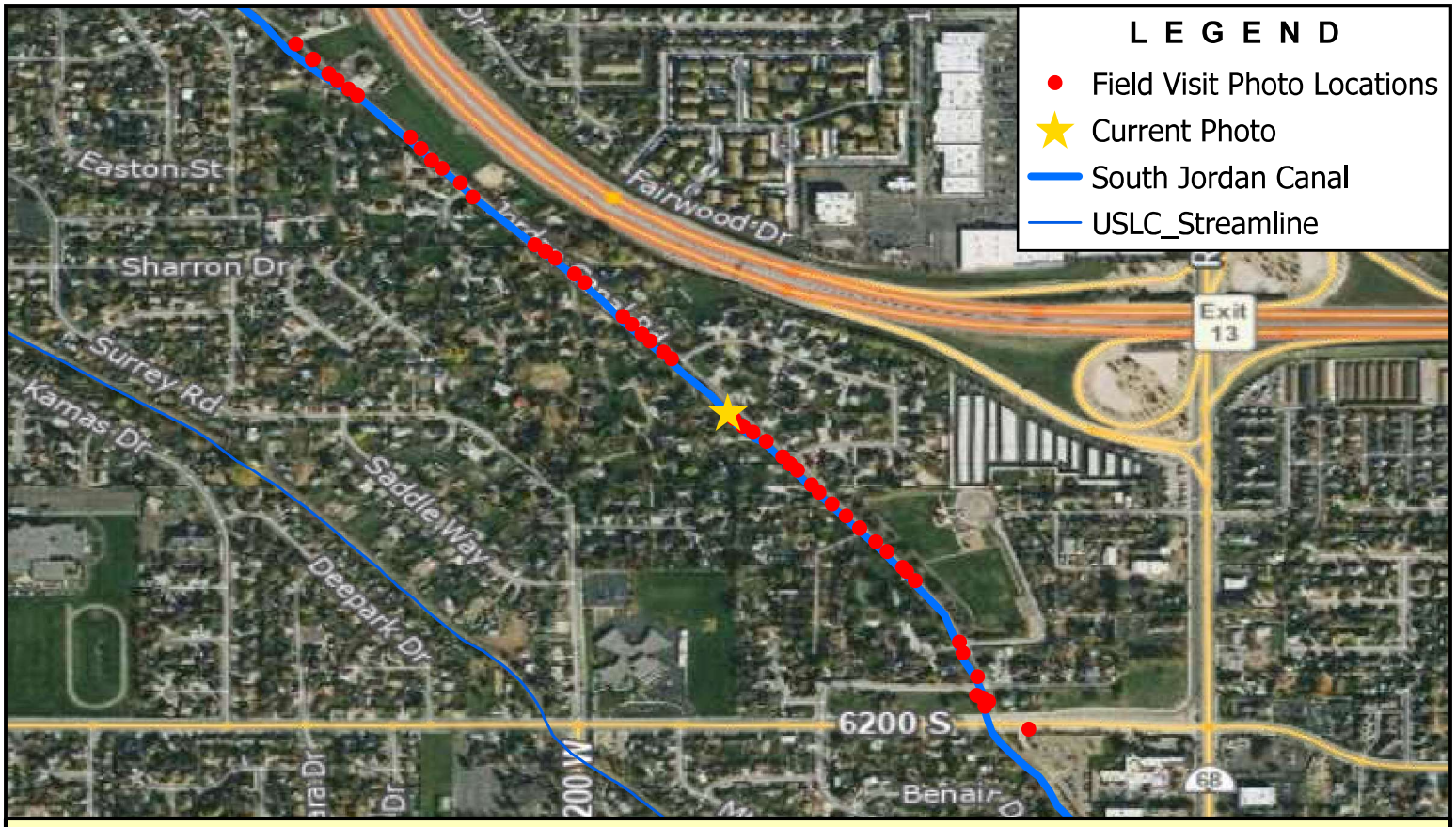
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 64

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5924 South Driveway

BOWEN COLLINS & ASSOCIATES

5924 S 2005 W

SALT LAKE COUNTY

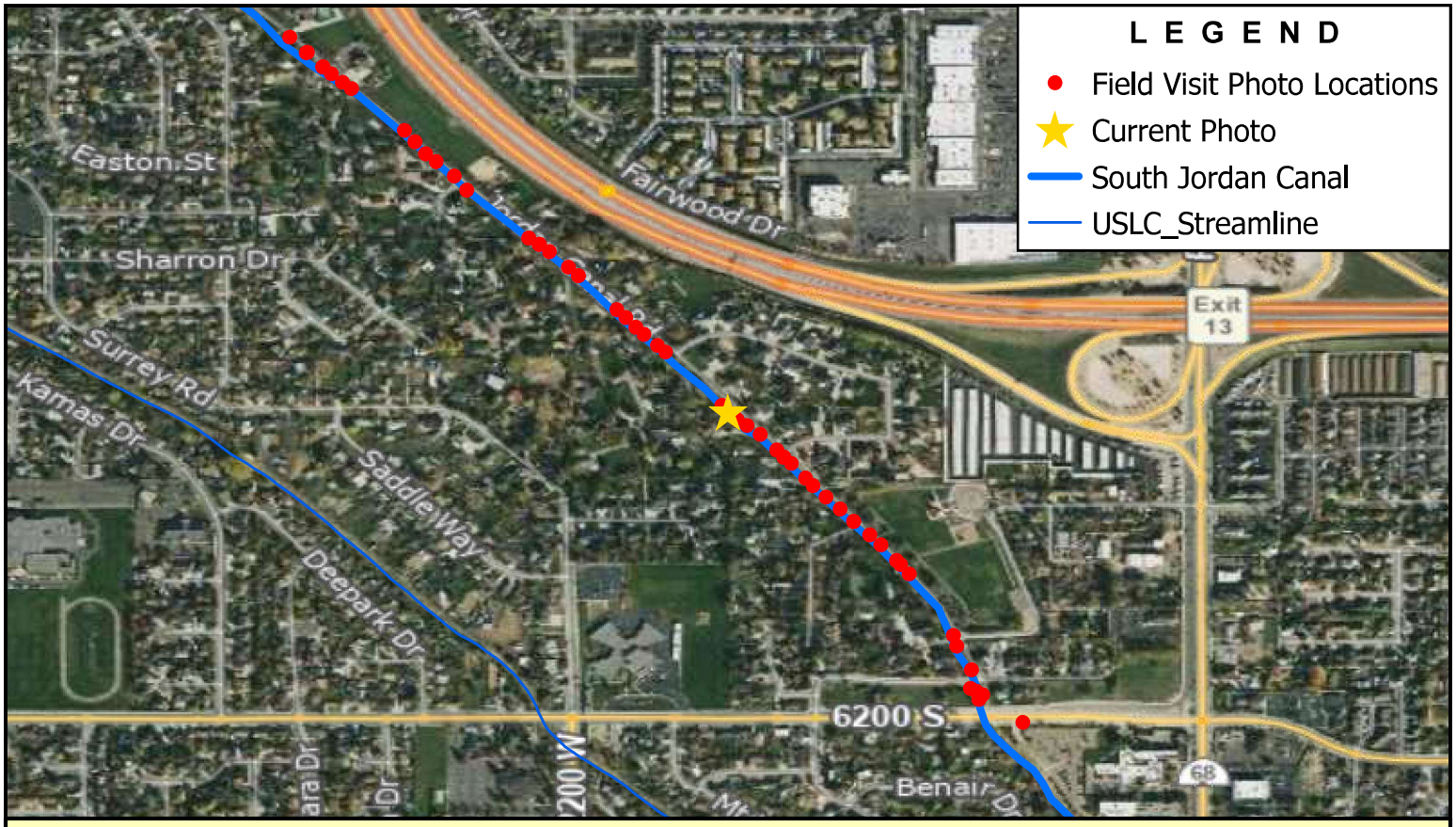
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 65

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 5947 South Driveway

BOWEN COLLINS & ASSOCIATES

5947 S 2005 W

SALT LAKE COUNTY

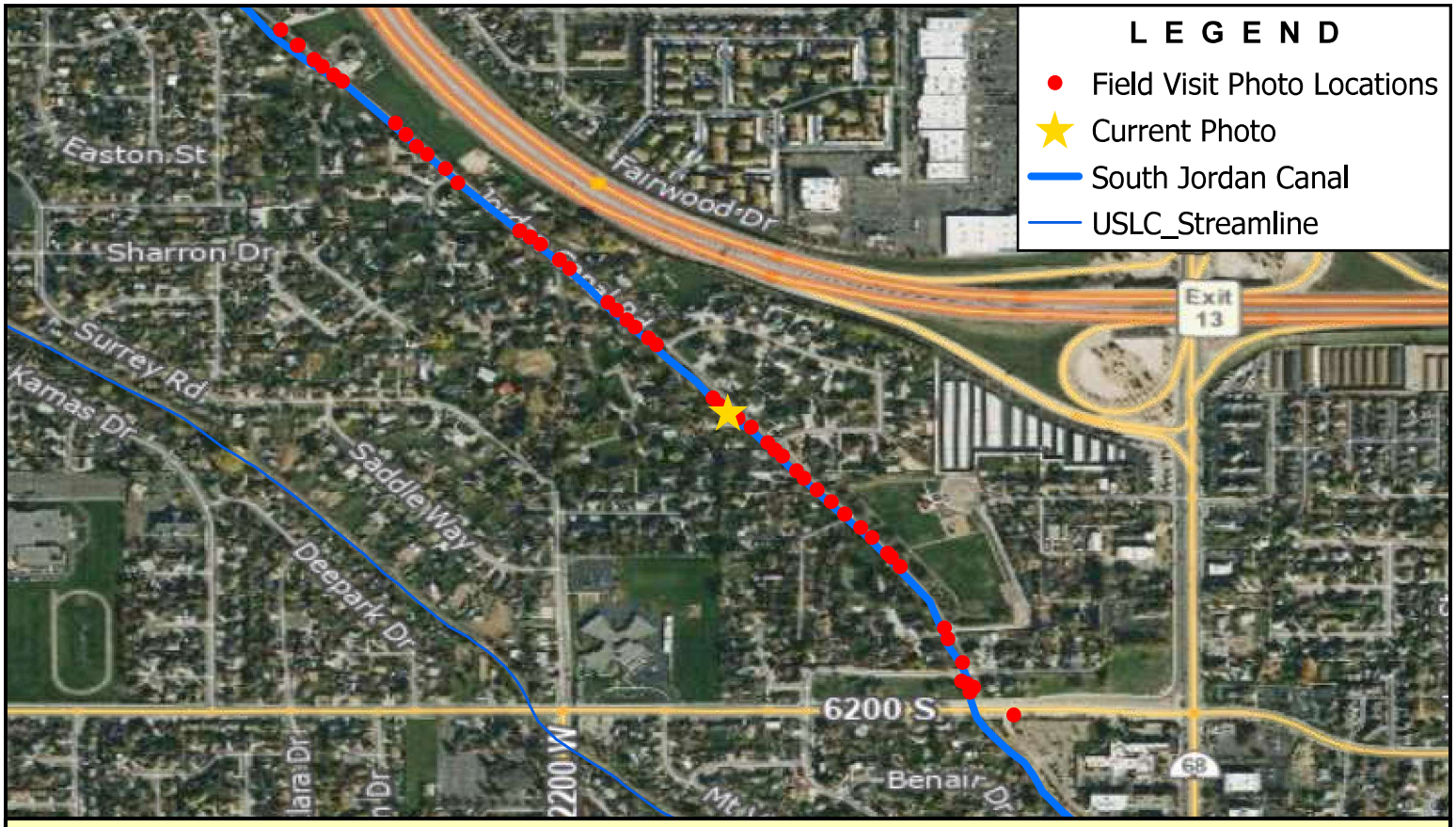
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 66

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5947 South Driveway

BOWEN COLLINS & ASSOCIATES

5947 S 2005 W

SALT LAKE COUNTY

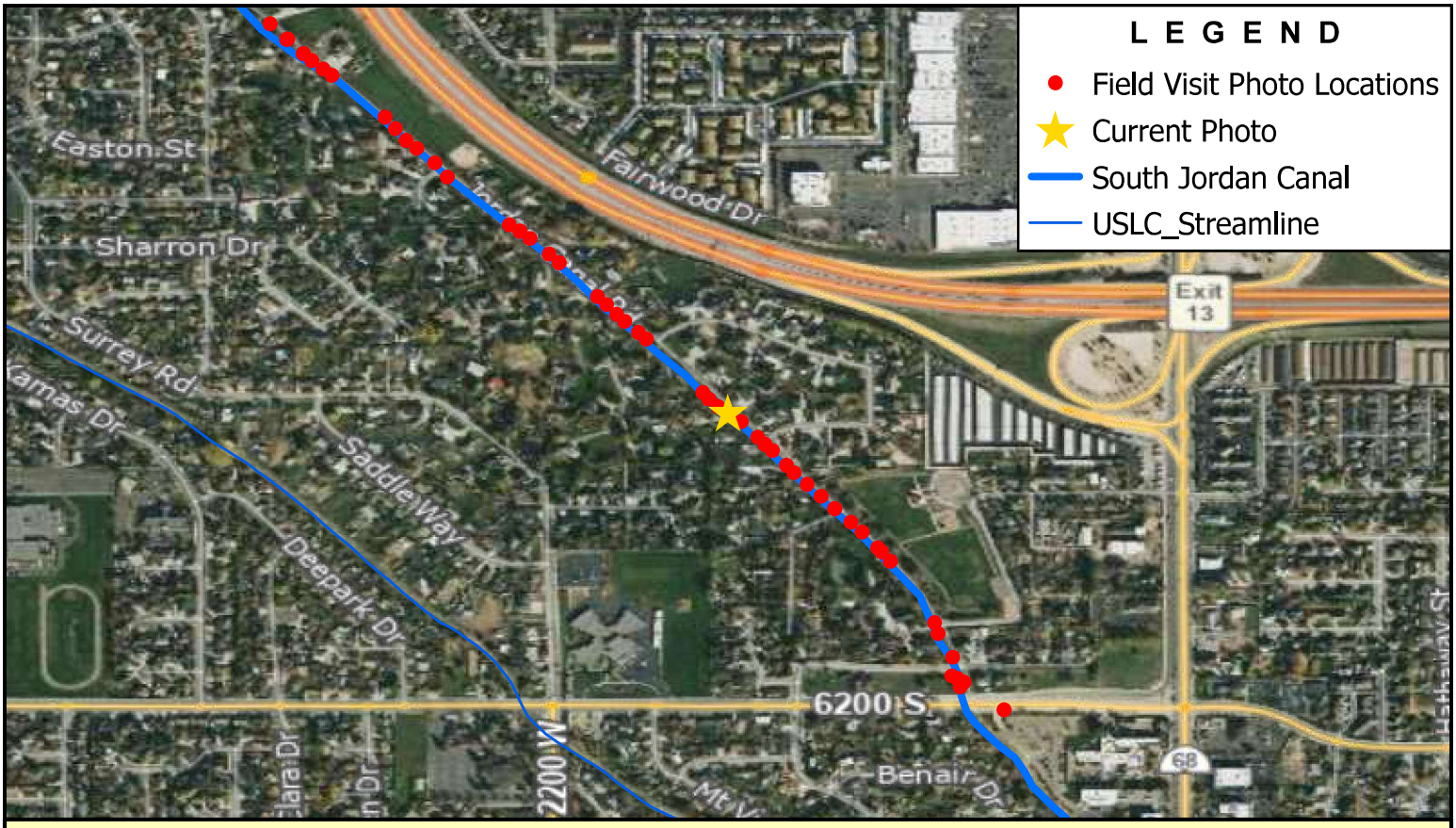
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 67

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 5958 South Driveway

BOWEN COLLINS & ASSOCIATES

5958 S 2005 W

SALT LAKE COUNTY

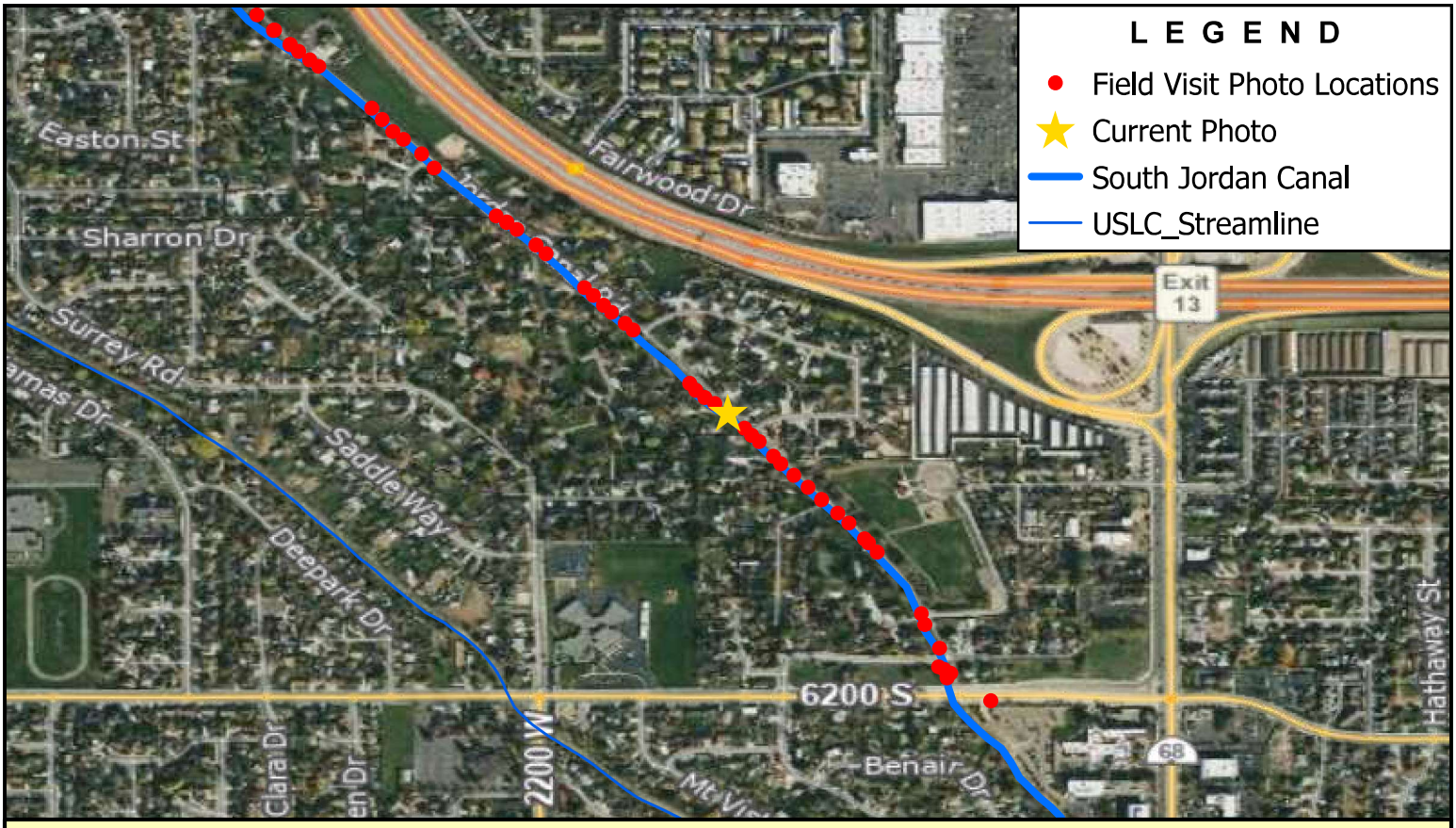
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 68

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5958 South Driveway

BOWEN COLLINS & ASSOCIATES

5958 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 69

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5976 South Driveway

BOWEN COLLINS & ASSOCIATES

5976 S Canal Ridge

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 70

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 5976 South Driveway

BOWEN COLLINS & ASSOCIATES

5976 S Canal Ridge

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 71

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5990 South Driveway

BOWEN COLLINS & ASSOCIATES

5990 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 72

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 5990 South Driveway

BOWEN COLLINS & ASSOCIATES

5990 S 2005 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 73

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 5992 South Driveway

BOWEN COLLINS & ASSOCIATES

5992 S 2005 W

SALT LAKE COUNTY

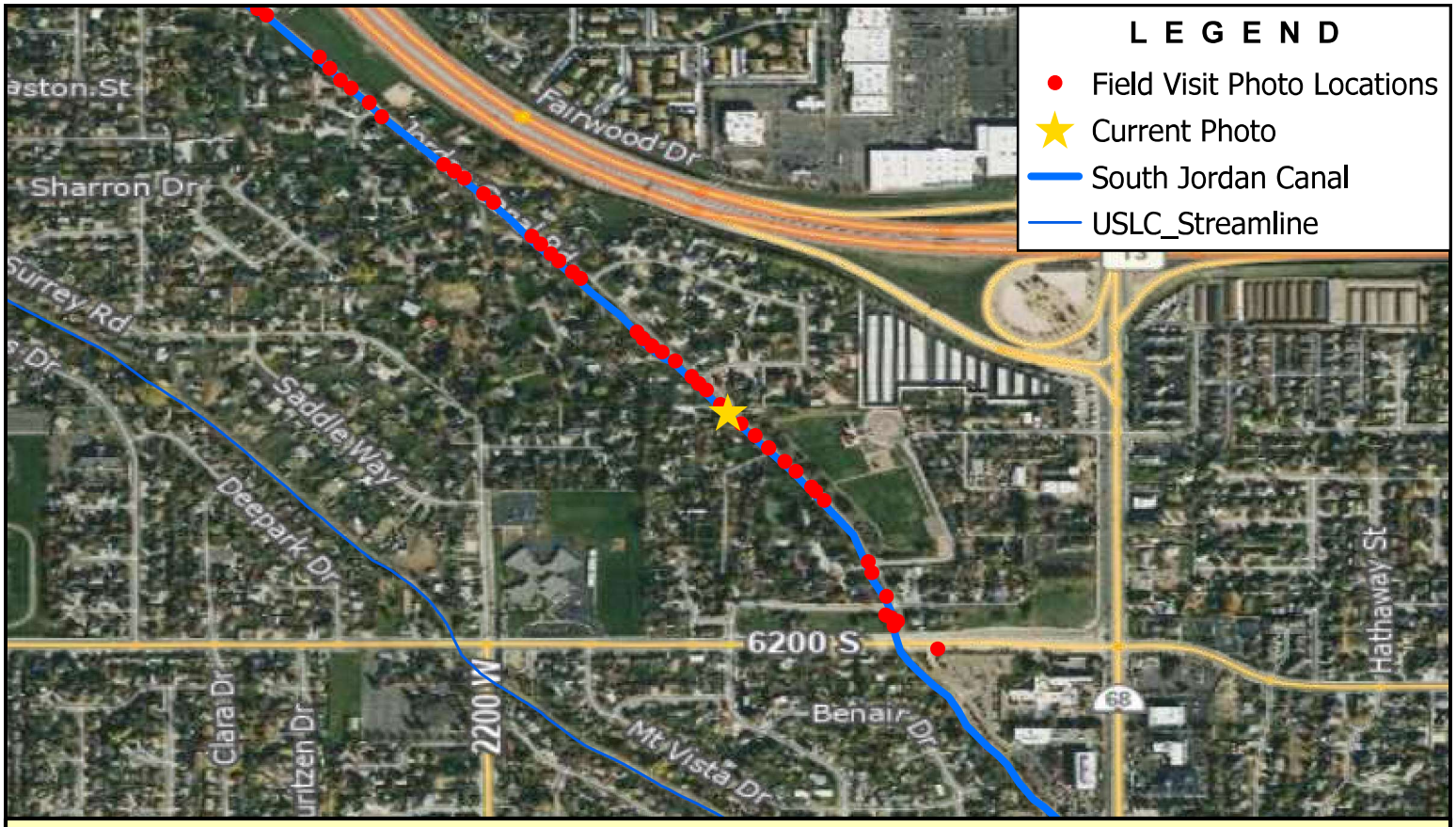
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 74

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 5992 South Driveway

BOWEN COLLINS & ASSOCIATES

5992 S 2005 W

SALT LAKE COUNTY

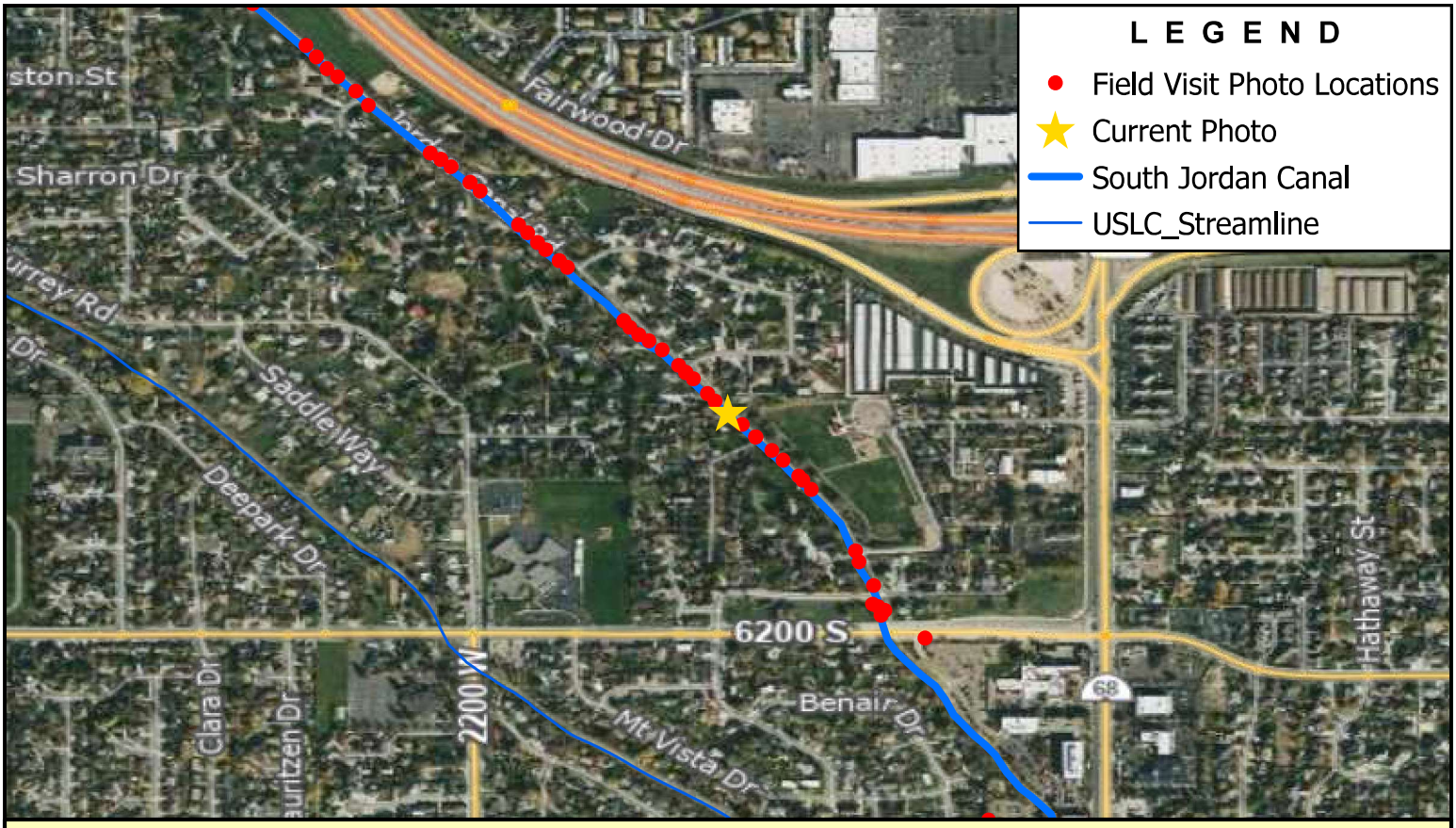
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 75

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 6024 South Driveway

BOWEN COLLINS & ASSOCIATES

6024 s Jordan Canal Road

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 76

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 6024 South Driveway

BOWEN COLLINS & ASSOCIATES

6024 s Jordan Canal Road

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 77

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 6026 South Driveway

BOWEN COLLINS & ASSOCIATES

6026 S Jordan Canal Road

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 78

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 6028 South Access Road

BOWEN COLLINS & ASSOCIATES

6028 S jordan Canal Road

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 79

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 6028 South Access Road

BOWEN COLLINS & ASSOCIATES

6028 S jordan Canal Road

SALT LAKE COUNTY

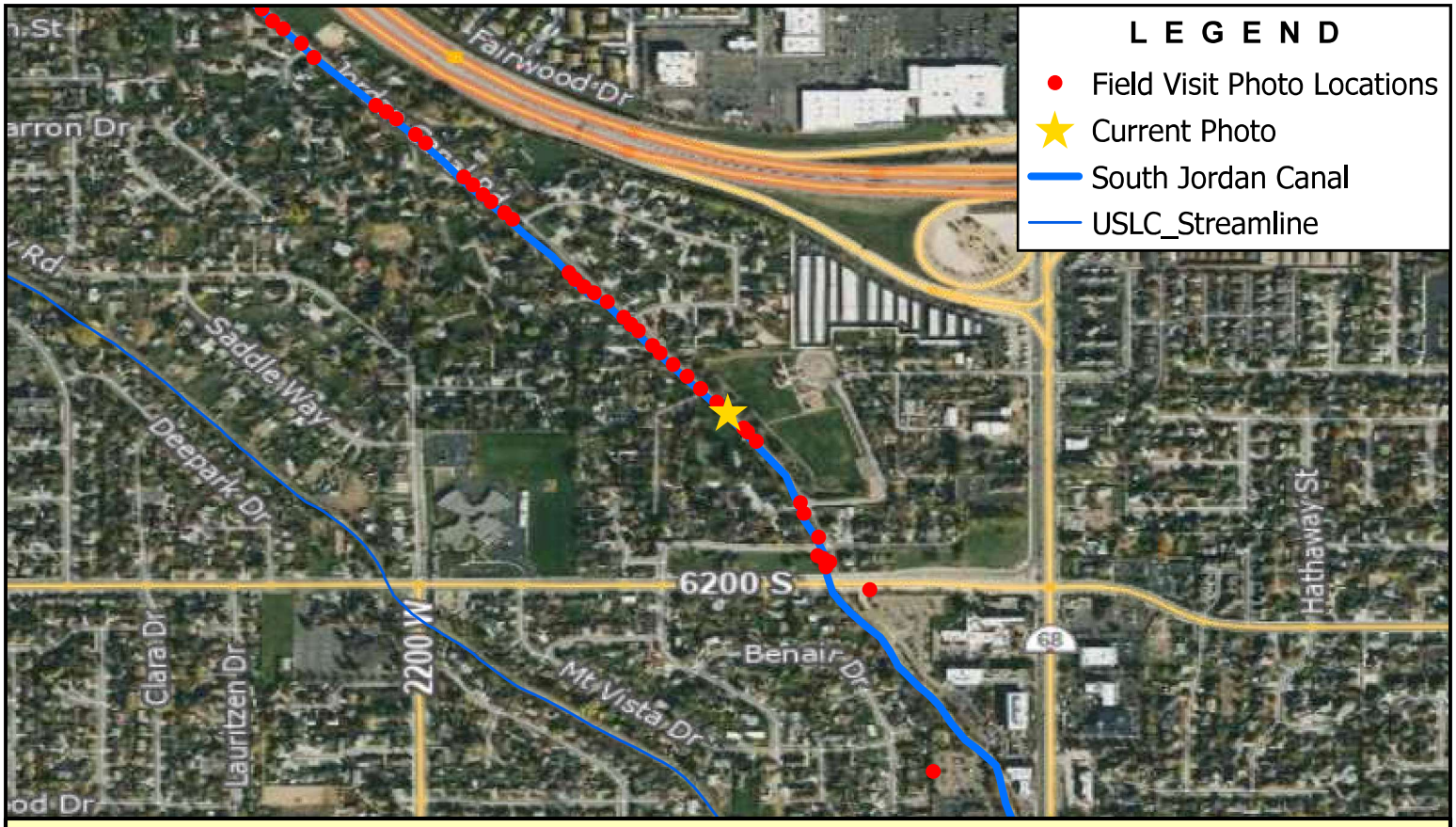
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 80

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Access Bridge at 6030 South

BOWEN COLLINS & ASSOCIATES

6030 S Jordan Canal Rd

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 81

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Access Bridge at 6030 South

BOWEN COLLINS & ASSOCIATES

6030 S Jordan Canal Rd

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 82

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 6032 South Driveway

BOWEN COLLINS & ASSOCIATES

6032 S Jordan Canal Rd

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 83

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 6032 South Driveway

BOWEN COLLINS & ASSOCIATES

6032 S Jordan Canal Rd

SALT LAKE COUNTY

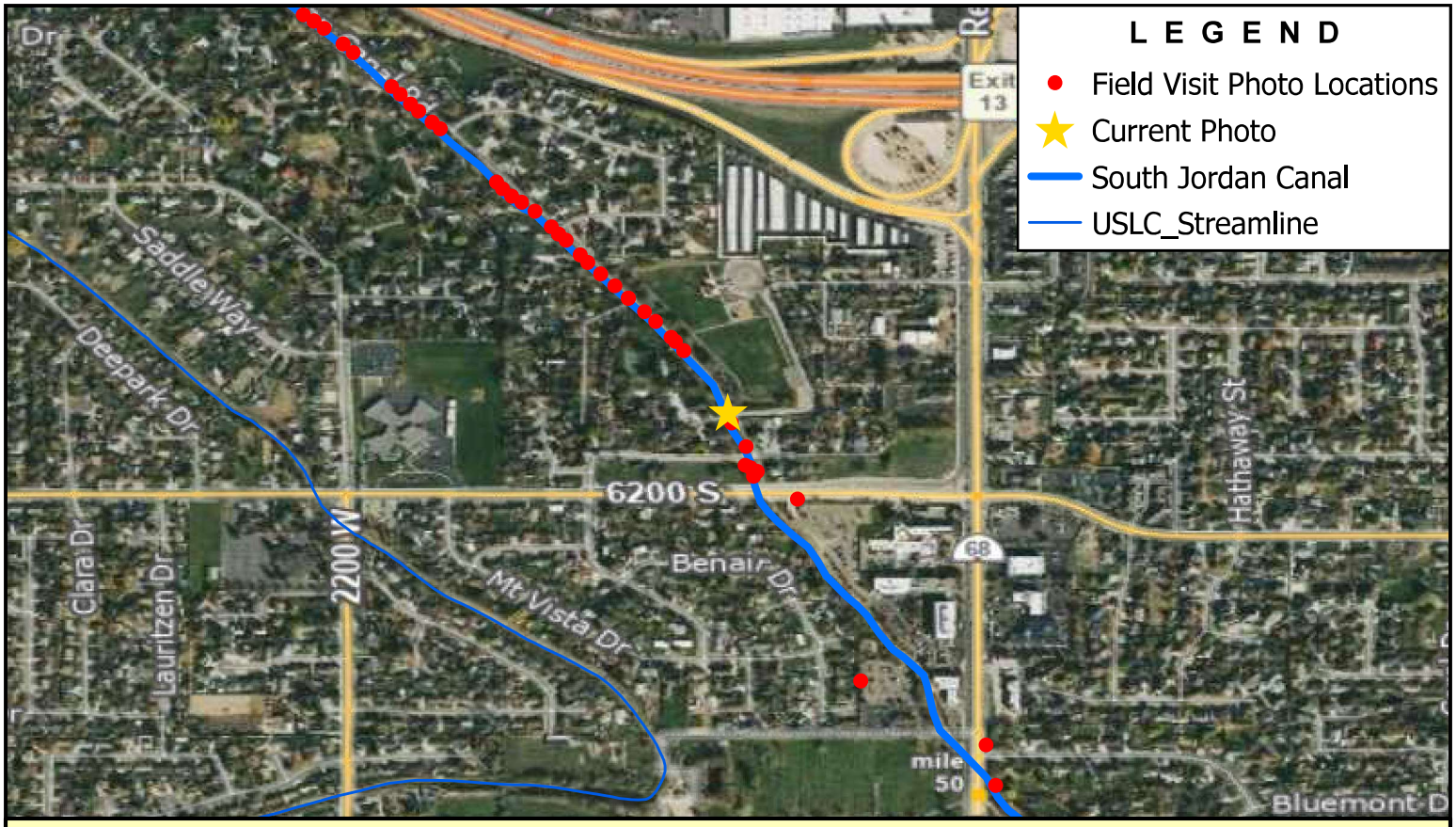
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 84

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Labrum Park Ln.

BOWEN COLLINS & ASSOCIATES

Labrum Park Ln/ 6150 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

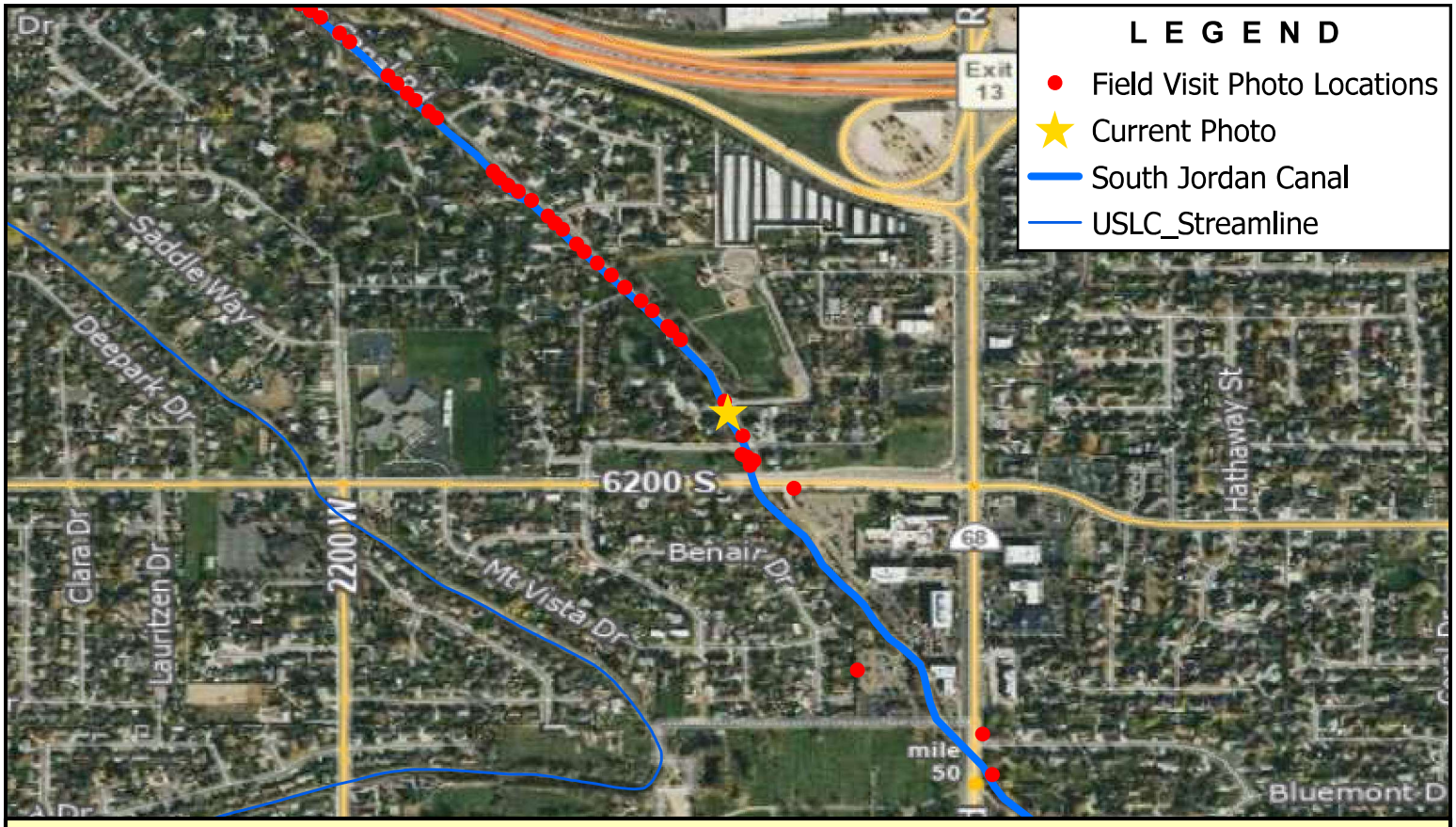
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 85

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Labrum Park Ln.

BOWEN COLLINS & ASSOCIATES

Labrum Park Ln/ 6150 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

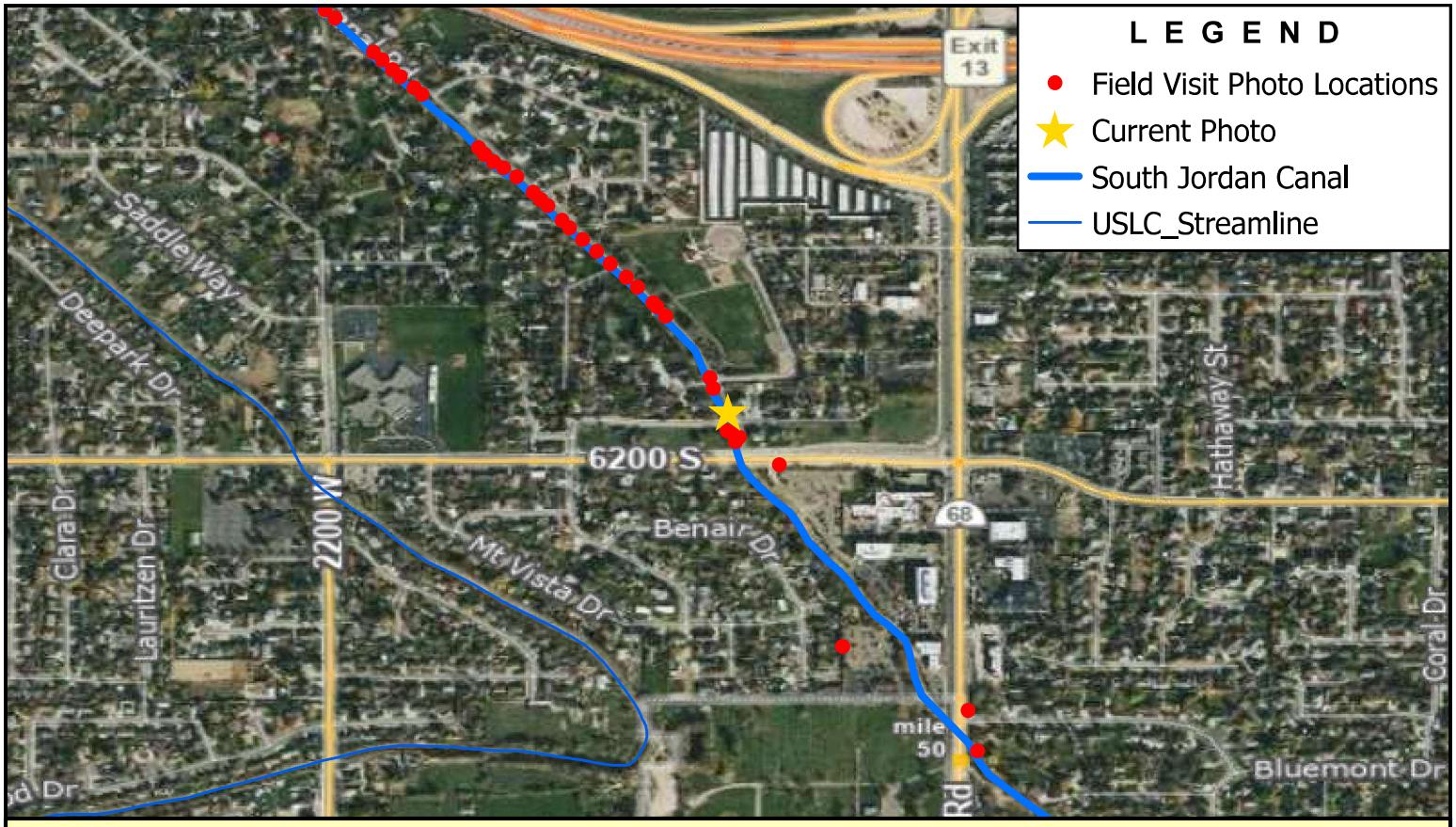
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 86

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Jordan Canal Road Crossing

BOWEN COLLINS & ASSOCIATES

S Jordan Canal Road

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 87

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Jordan Canal Road Crossing

BOWEN COLLINS & ASSOCIATES

S Jordan Canal Road

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 88

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of Bridge Near 6000 South

BOWEN COLLINS & ASSOCIATES	6000 S	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 89

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Bridge Near 6000 South

BOWEN COLLINS & ASSOCIATES	6000 S	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 90

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of Bennion Boulevard Crossing

BOWEN COLLINS & ASSOCIATES	Bennion Boulevard / 6200 S	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 91

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Bennion Boulevard Crossing

BOWEN COLLINS & ASSOCIATES

Bennion Boulevard / 6200 S

SALT LAKE COUNTY

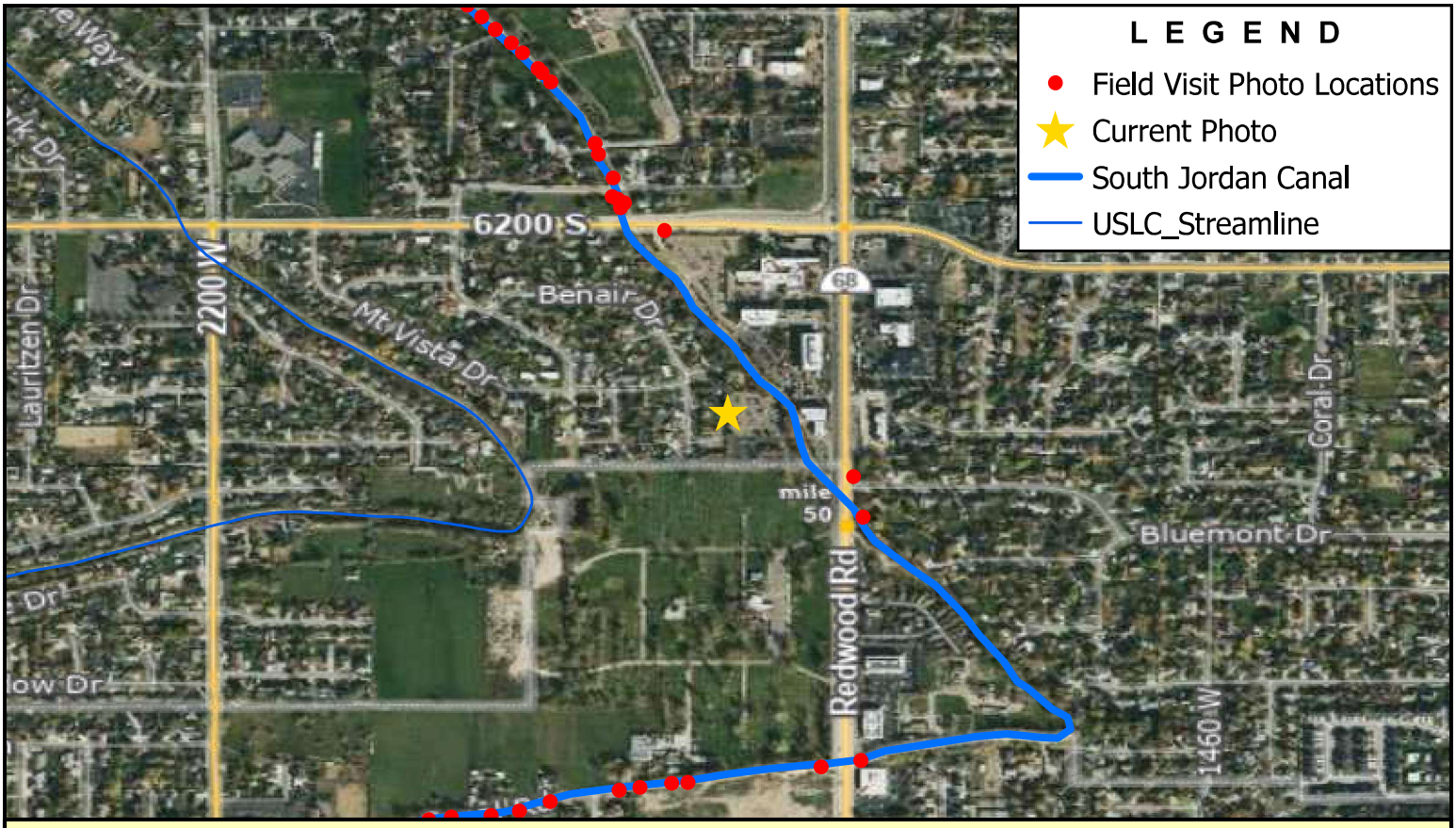
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 92

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 6296 South Crossing

BOWEN COLLINS & ASSOCIATES

6296 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 93

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of Redwood Rd. Crossing @ 6400 South

BOWEN COLLINS & ASSOCIATES

s Redwood Road

SALT LAKE COUNTY

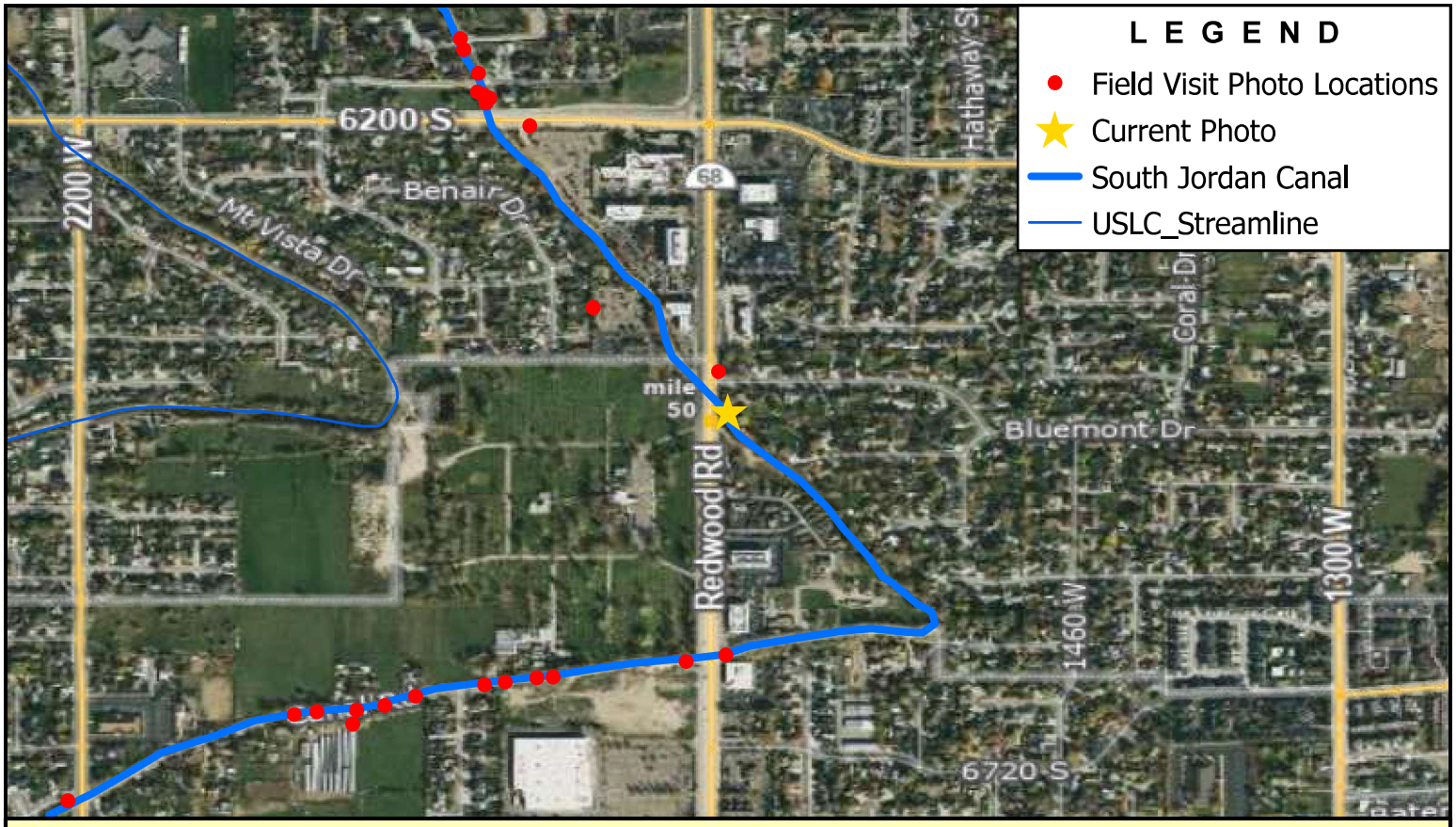
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 94

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Redwood Rd. Crossing @ 6400 South

BOWEN COLLINS & ASSOCIATES

s Redwood Road

SALT LAKE COUNTY

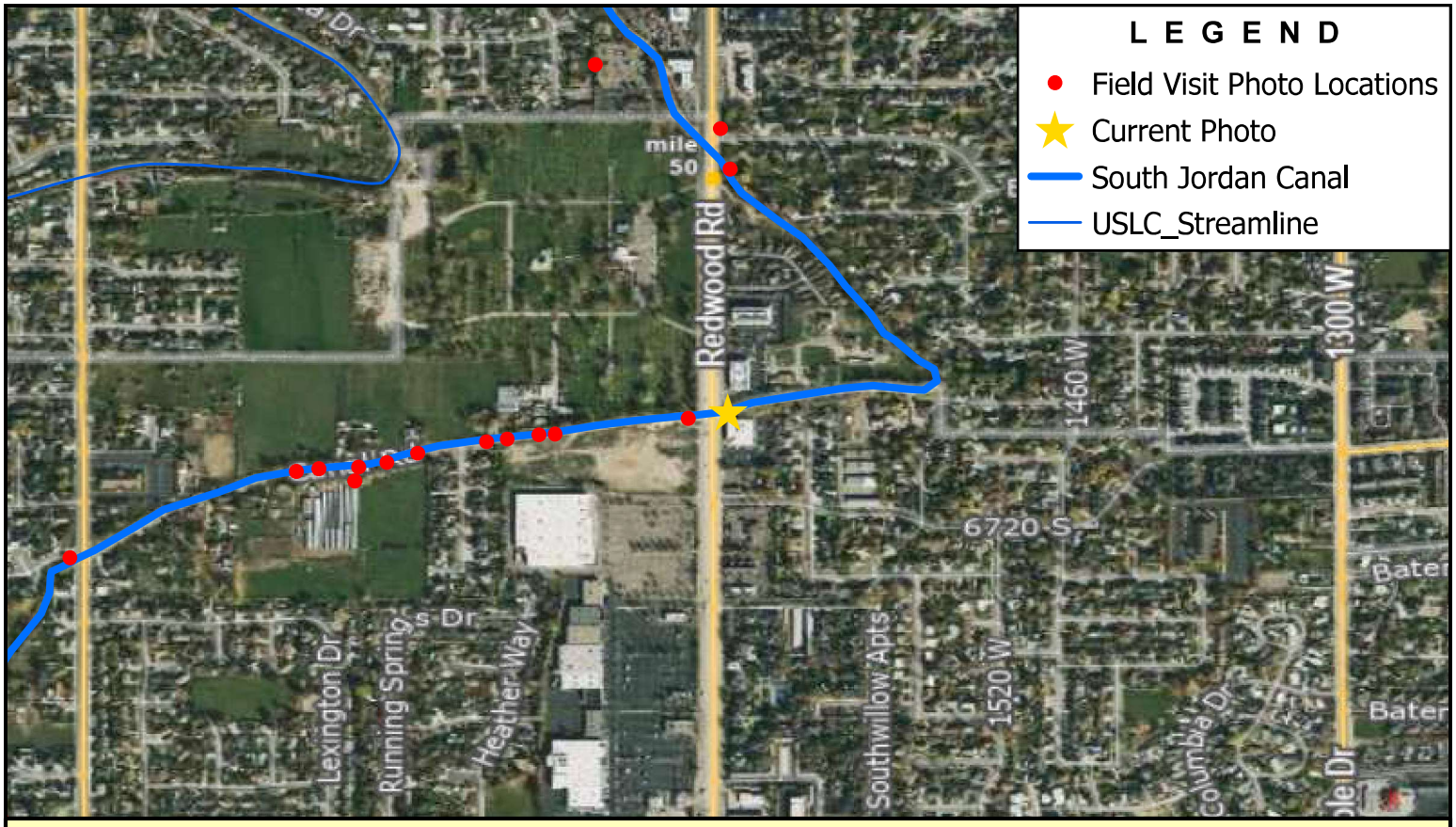
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 95

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Redwood Rd. Crossing @ 6600 South

BOWEN COLLINS & ASSOCIATES

s Redwood Road/ W 6670 S

SALT LAKE COUNTY

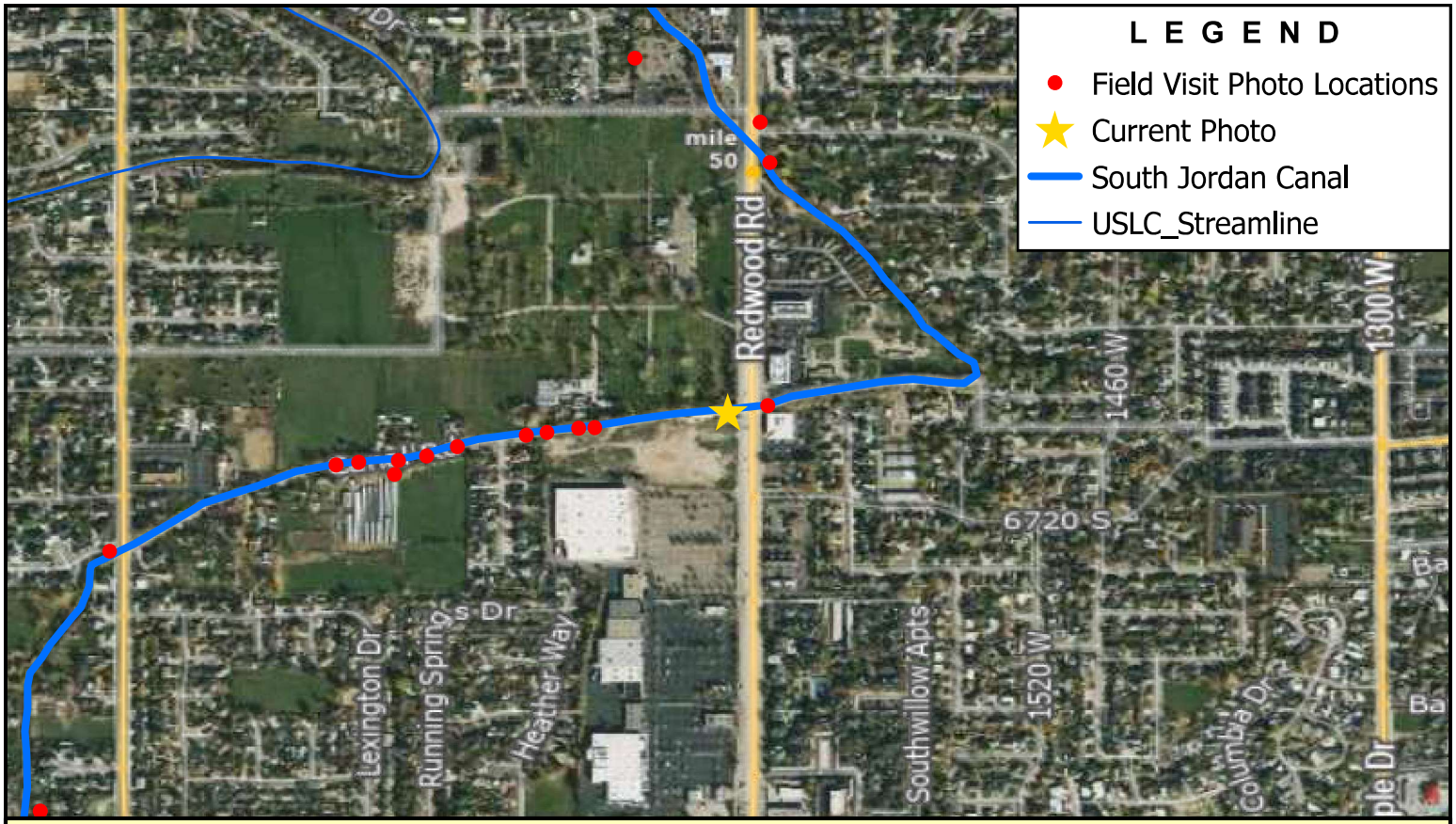
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 96

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Redwood Rd. Crossing @ 6600 South

BOWEN COLLINS & ASSOCIATES

s Redwood Road/ W 6670 S

SALT LAKE COUNTY

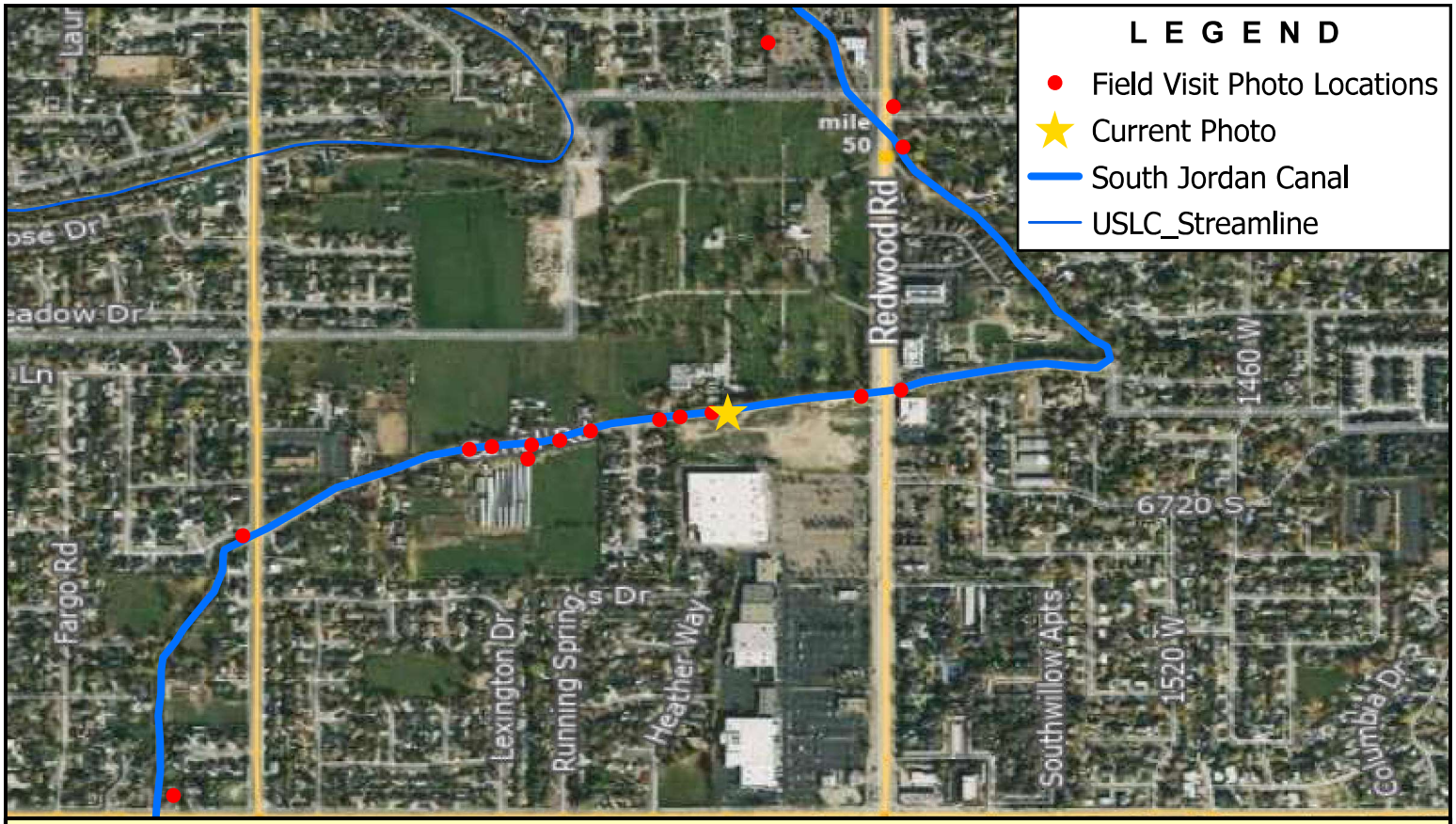
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 97

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 1780 West Driveway

BOWEN COLLINS & ASSOCIATES

1780 W 6670 S

SALT LAKE COUNTY

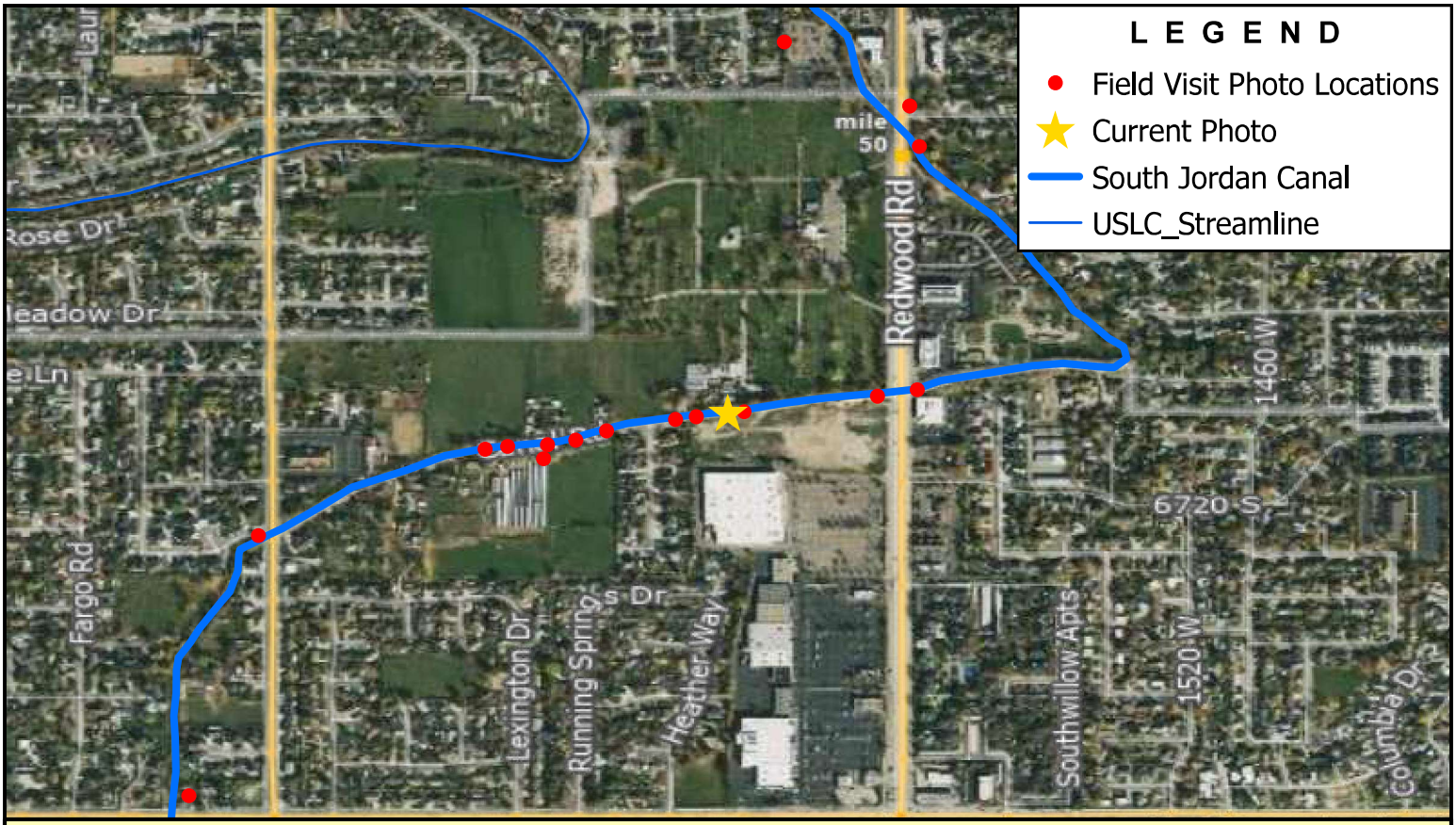
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 98

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 1780 West Driveway

BOWEN COLLINS & ASSOCIATES

1780 W 6670 S

SALT LAKE COUNTY

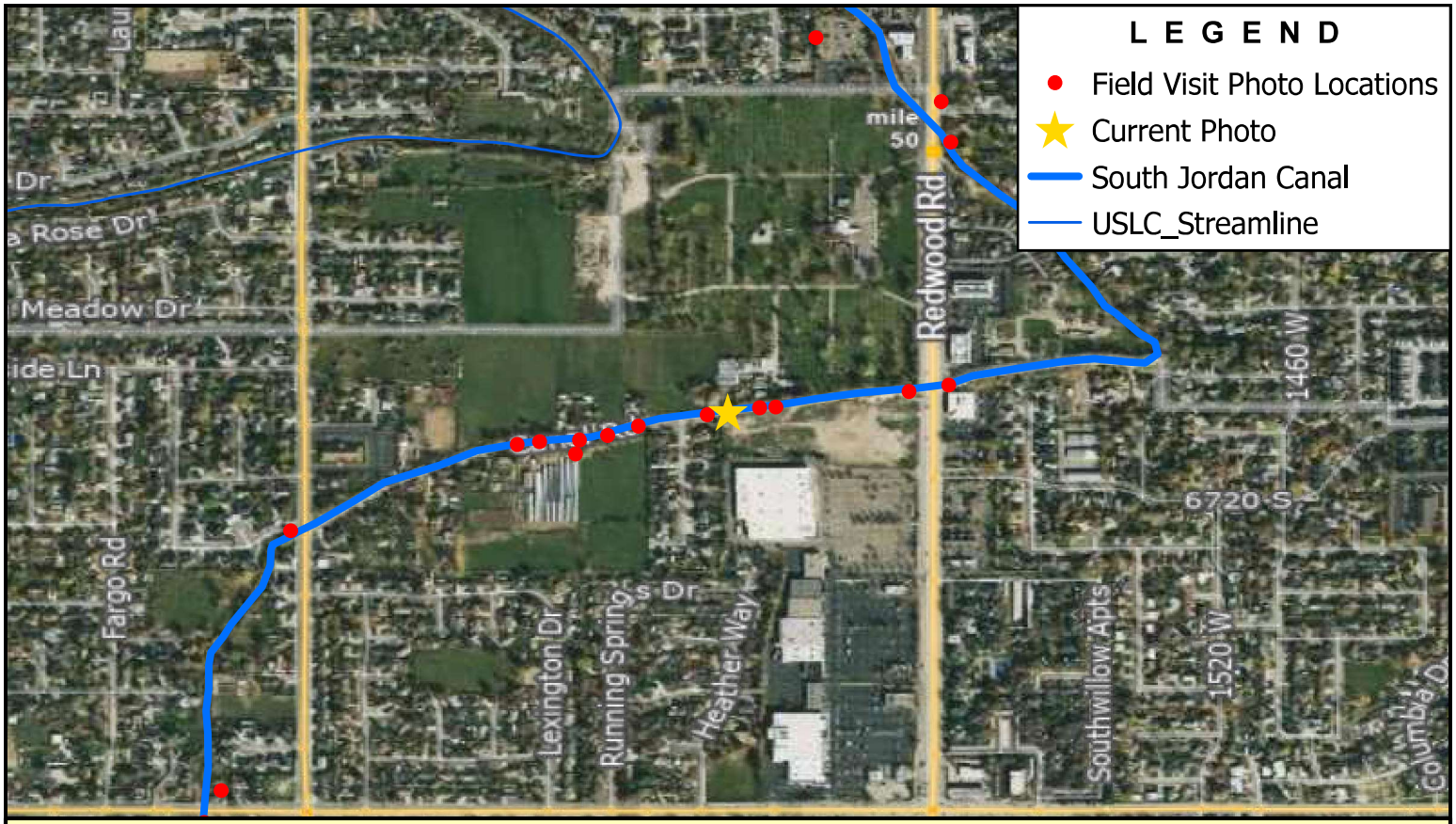
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 99

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 1830 West Driveway

BOWEN COLLINS & ASSOCIATES

1830 W 6670 S

SALT LAKE COUNTY

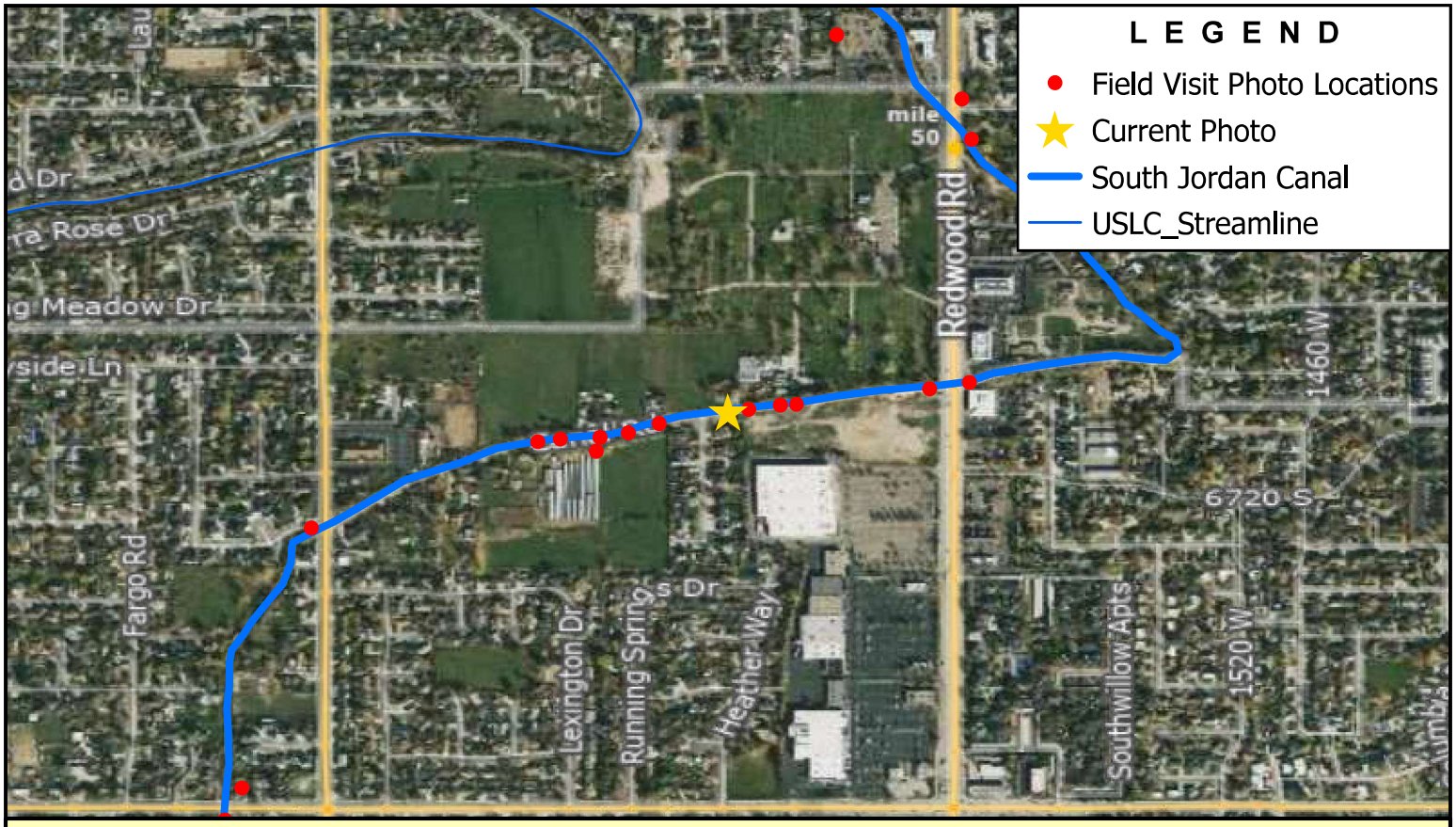
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 100

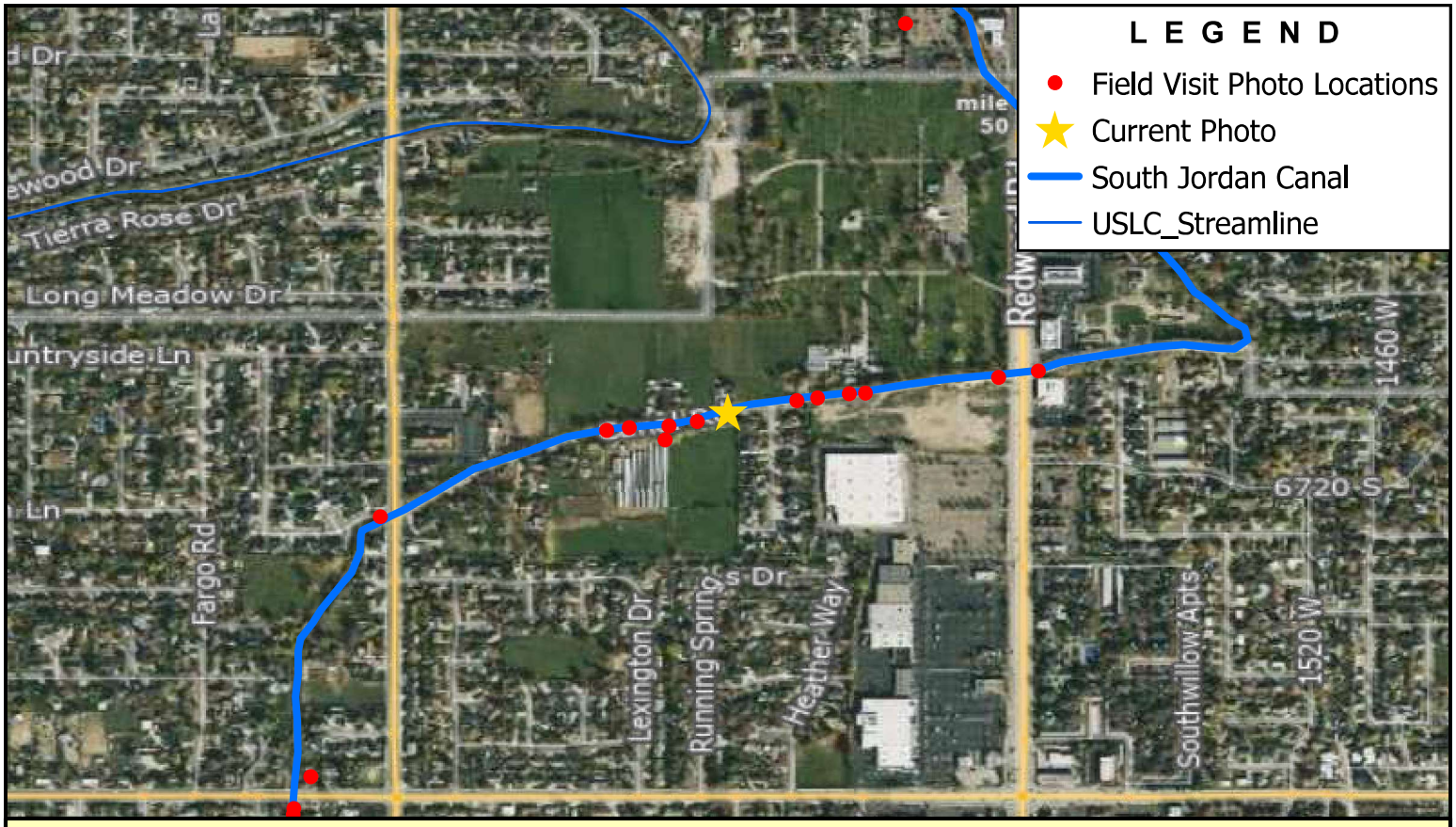
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 1830 West Driveway

BOWEN COLLINS & ASSOCIATES	1830 W 6670 S	NORTH:	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 101

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 1895 West Driveway

BOWEN COLLINS & ASSOCIATES

1895 W 6670 S

SALT LAKE COUNTY

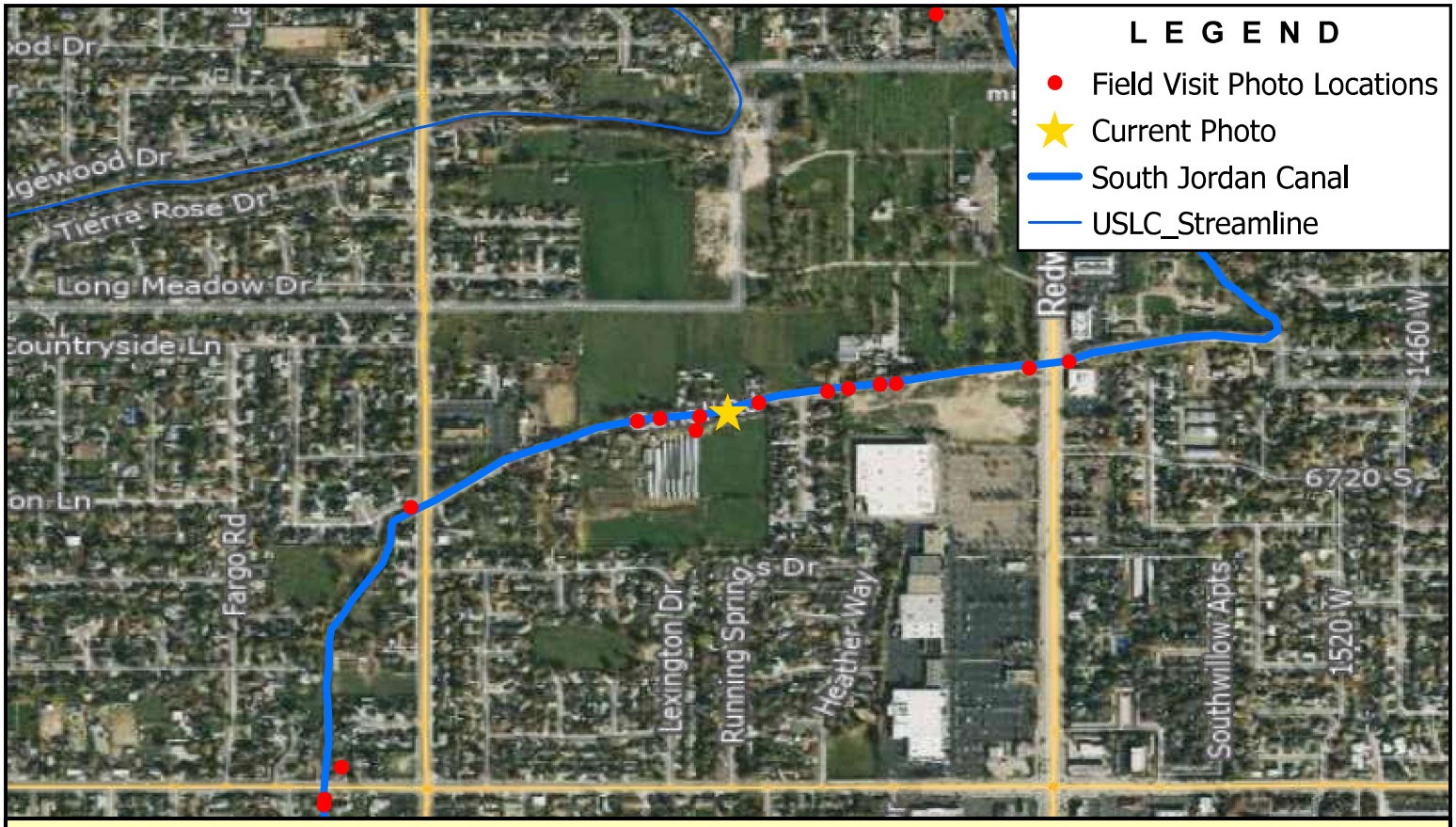
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 102

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 1895 West Driveway

BOWEN COLLINS & ASSOCIATES

1895 W 6670 S

SALT LAKE COUNTY

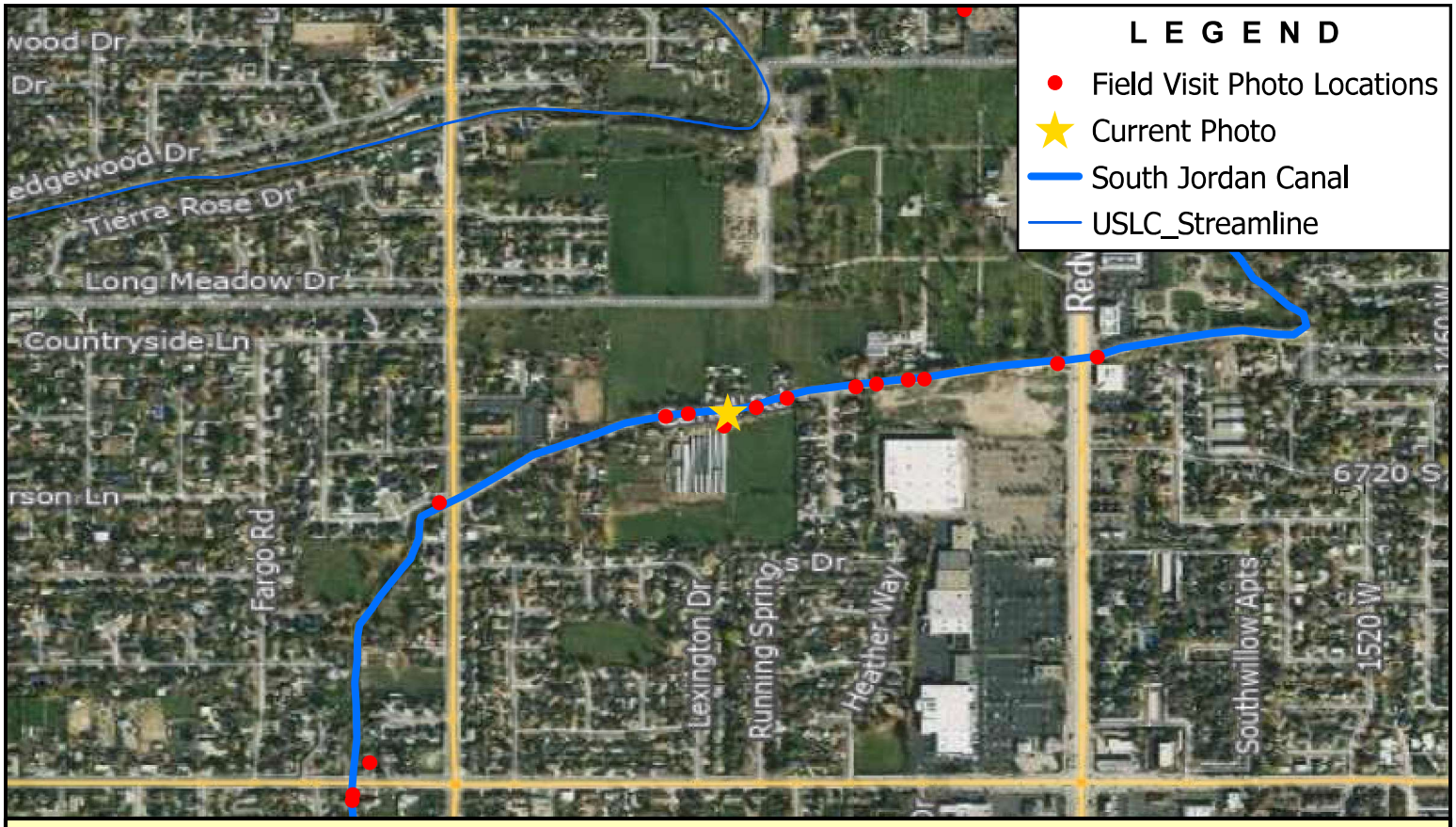
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 103

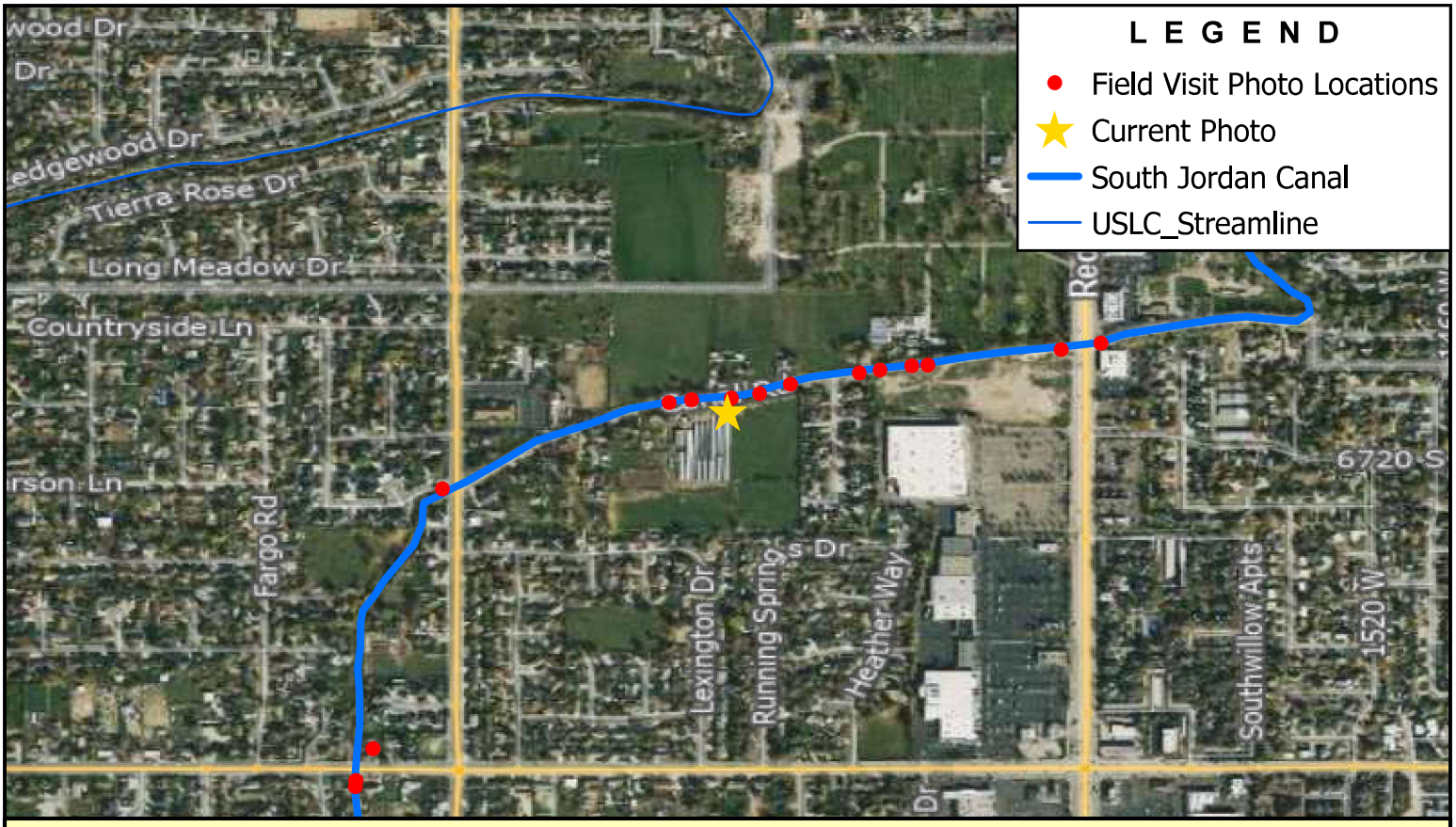
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 1905 West Driveway

BOWEN COLLINS & ASSOCIATES	1905 W 6670 S	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 104

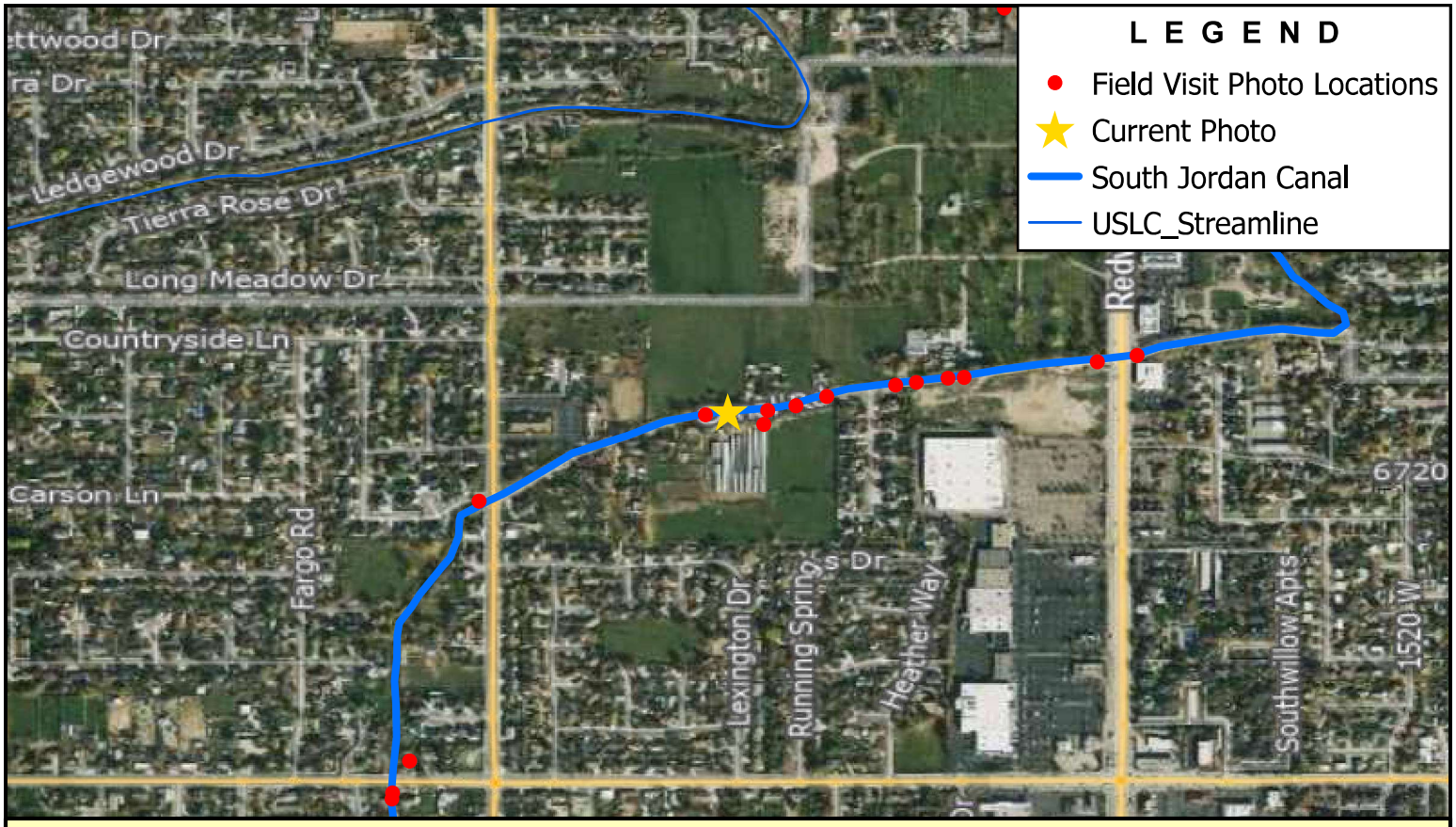
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 1900 West Driveway

BOWEN COLLINS & ASSOCIATES	1900 W	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 105

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 1900 West Driveway

BOWEN COLLINS & ASSOCIATES

1900 W

SALT LAKE COUNTY

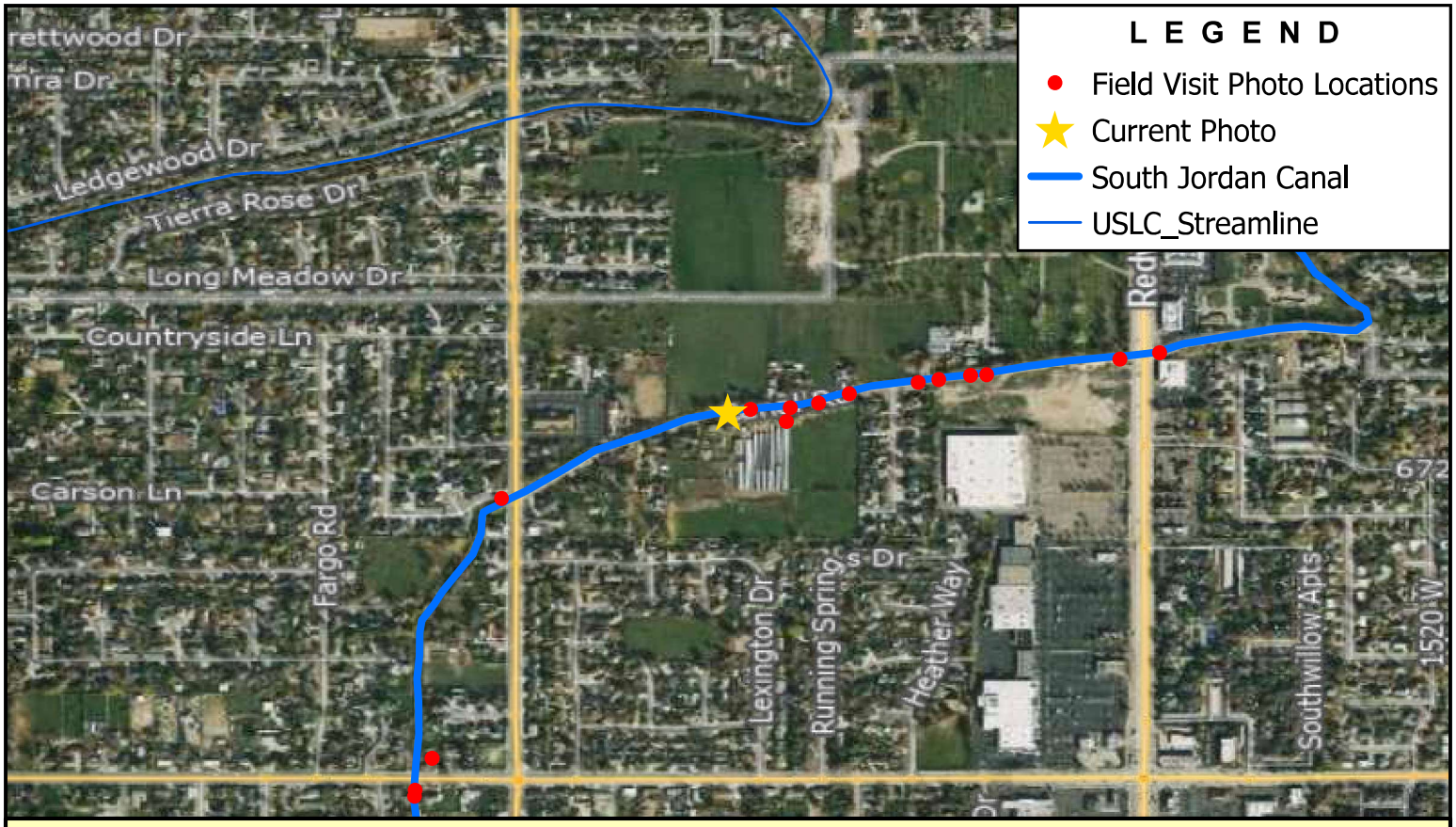
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 106

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Access Bridge

BOWEN COLLINS & ASSOCIATES

by 24993

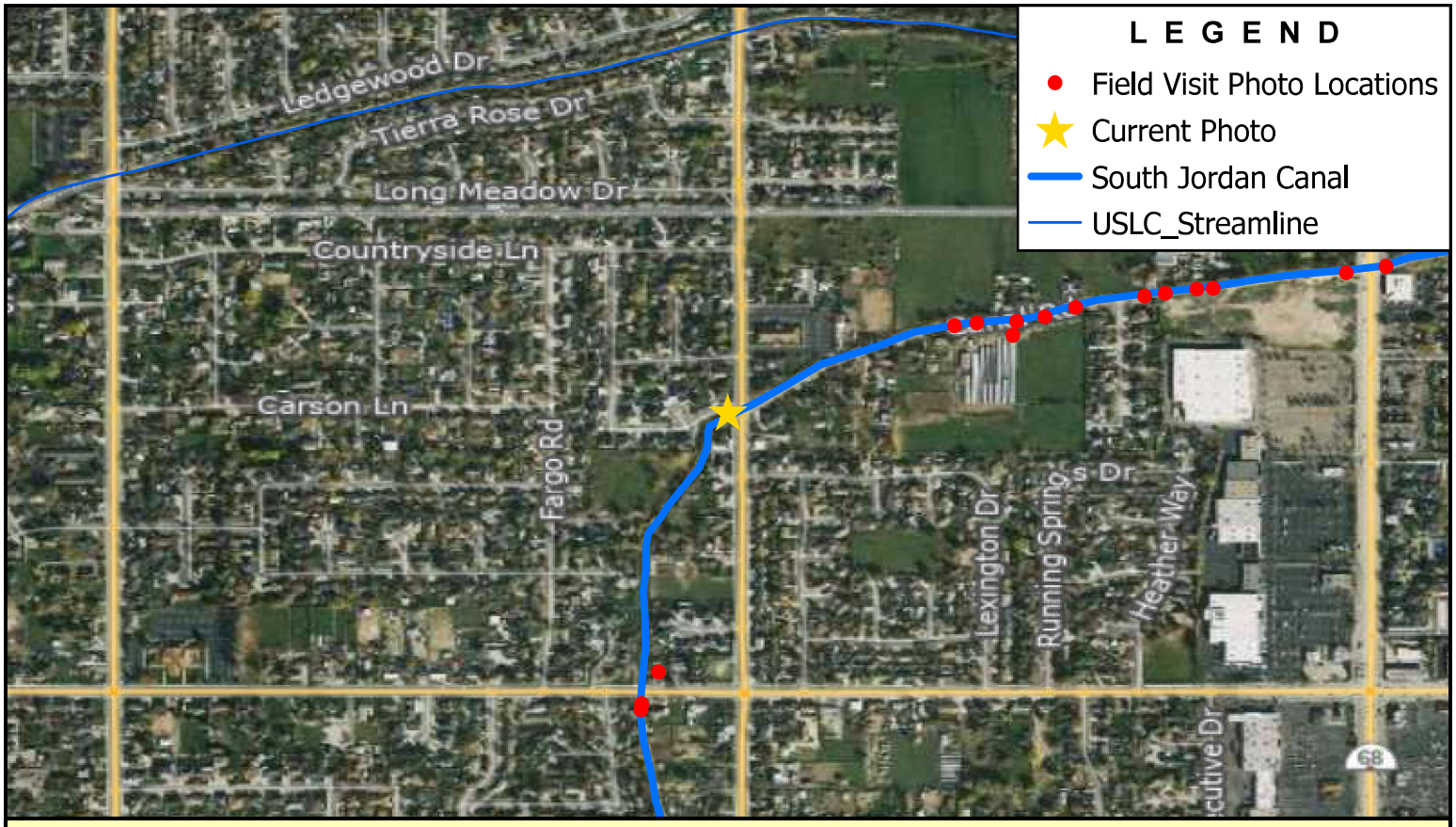
NORTH:

SCALE: 0 500 1,000 Feet

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

PHOTOGRAPH NO. 107



Note: Upstream Side of 2200 West Crossing

BOWEN COLLINS & ASSOCIATES

S 2200 W

SALT LAKE COUNTY

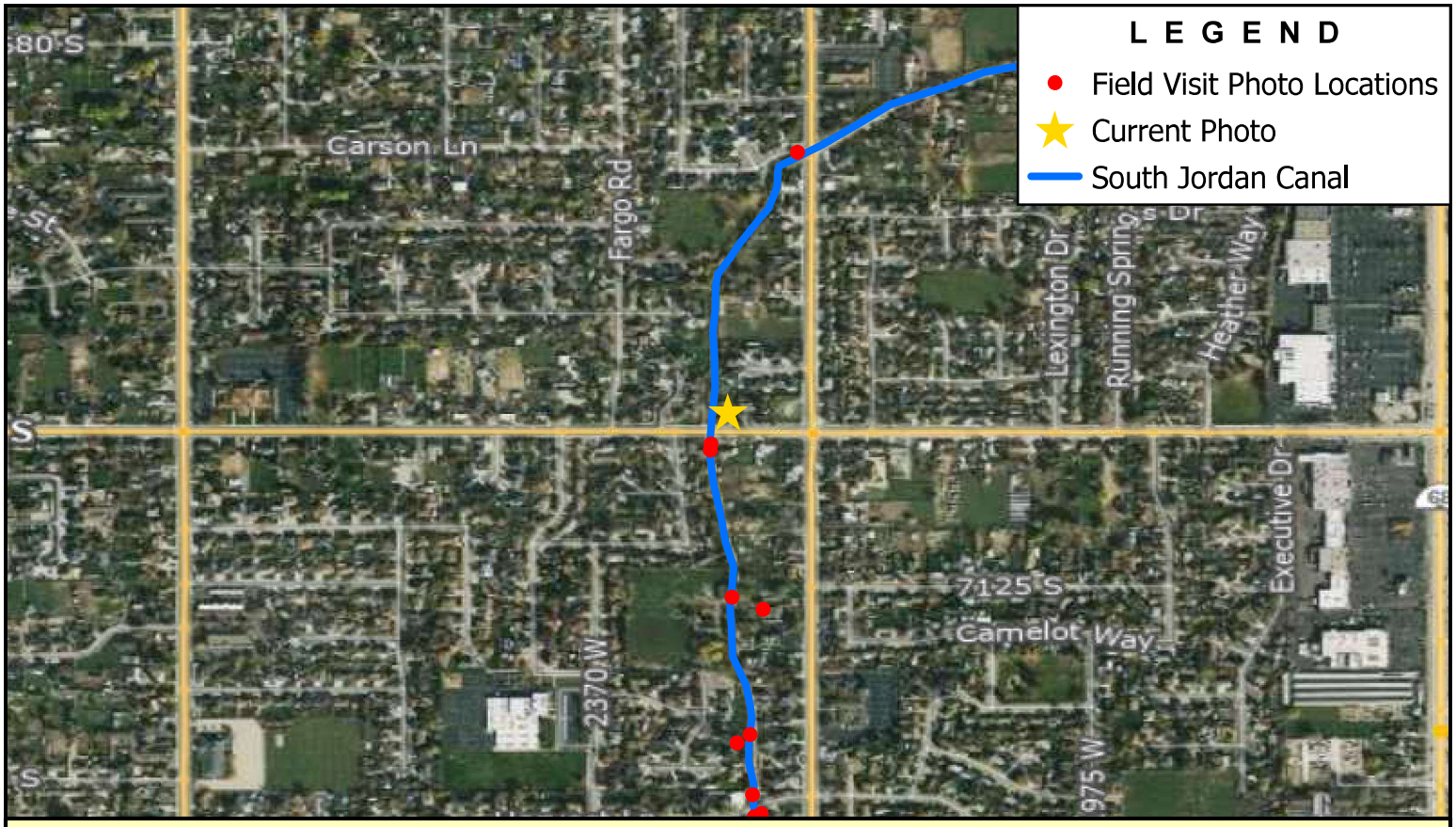
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 108

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 7000 South Crossing

BOWEN COLLINS & ASSOCIATES

W 7000 S

SALT LAKE COUNTY

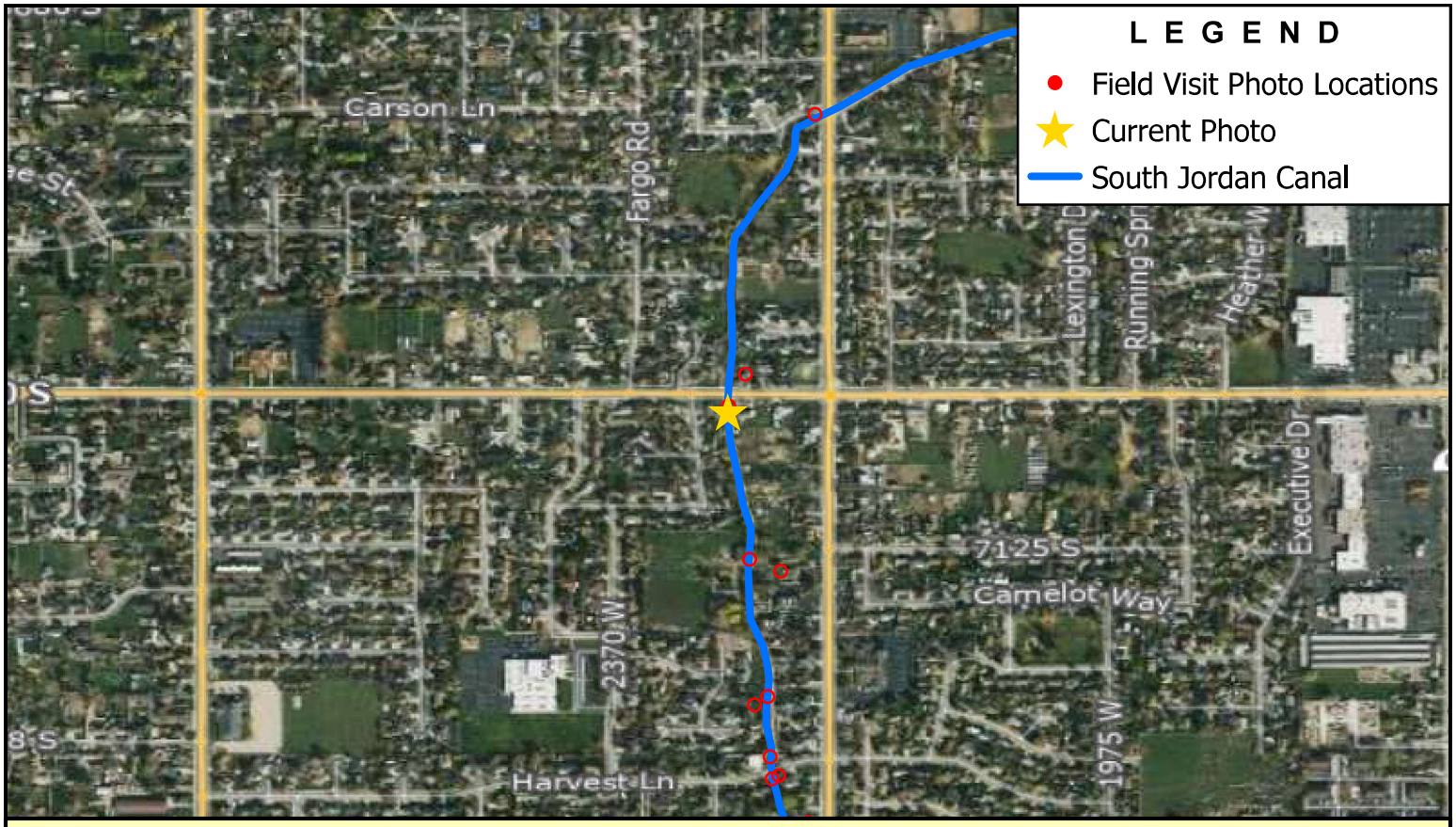
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 109

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 7000 South Crossing

BOWEN COLLINS & ASSOCIATES

W 7000 S

SALT LAKE COUNTY

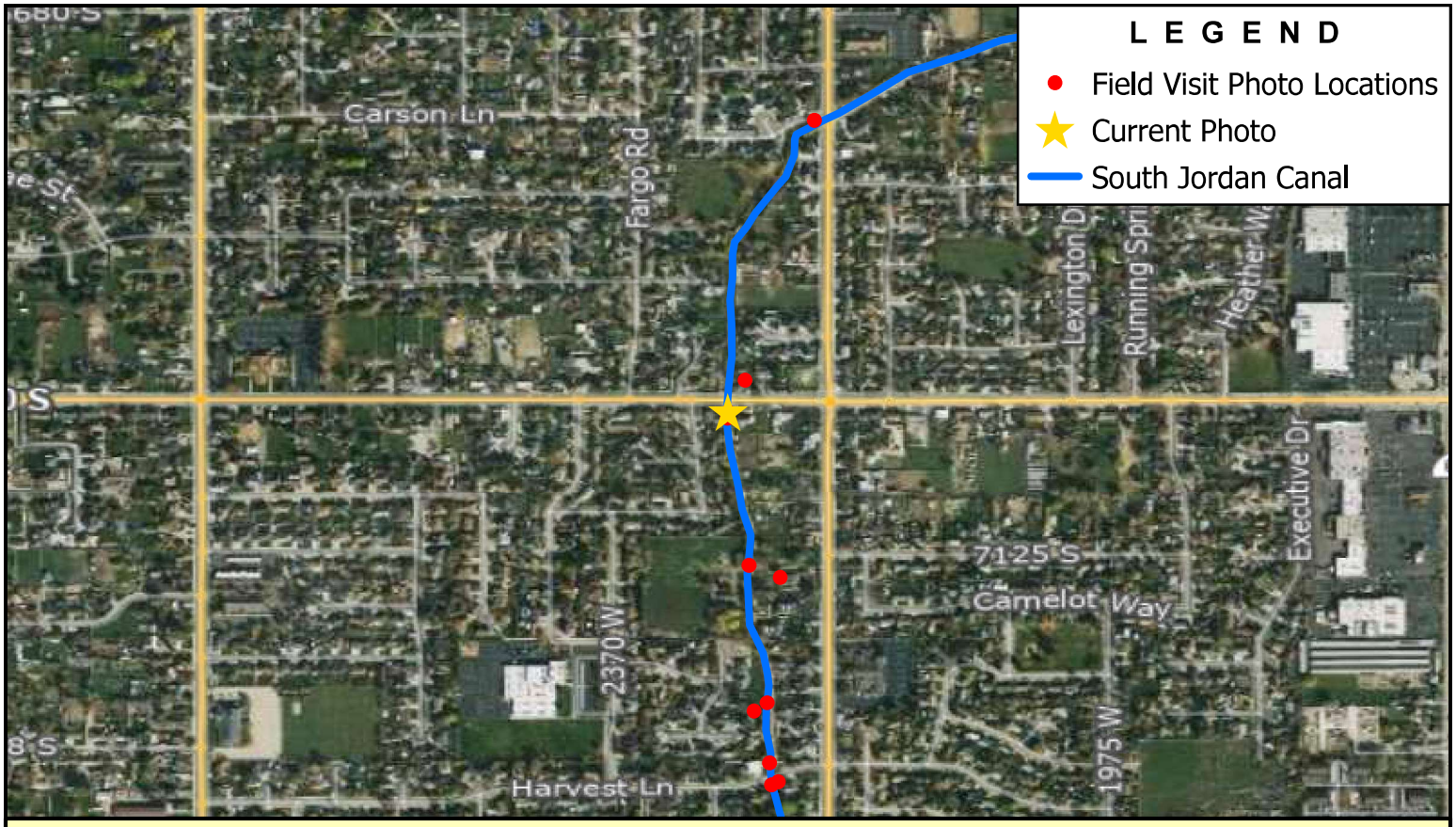
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 110

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: 7000 South Dumpout

BOWEN COLLINS & ASSOCIATES

7000 South Dumpout

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 111

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 7110 South Driveway

BOWEN COLLINS & ASSOCIATES

7110 S

SALT LAKE COUNTY

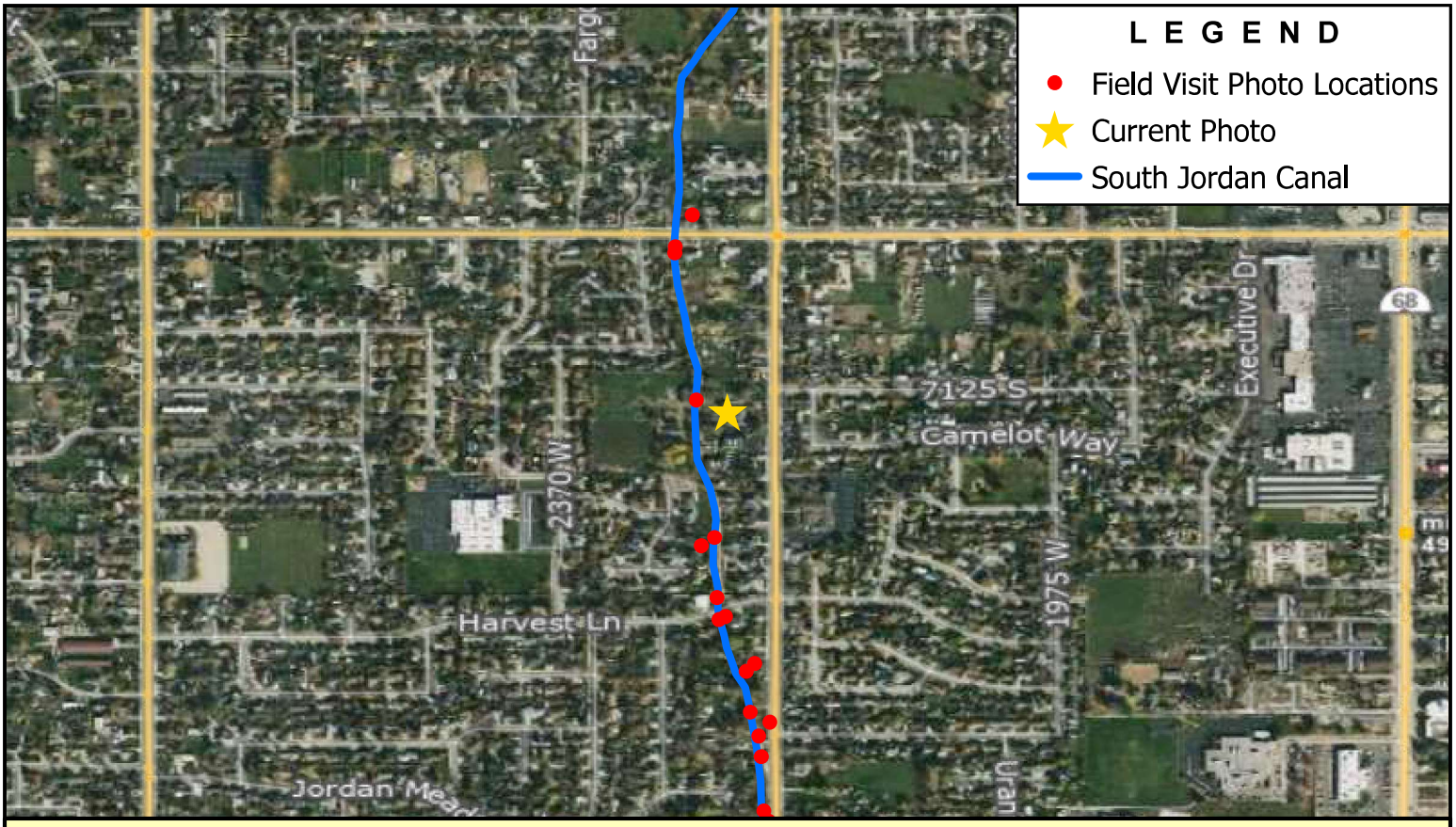
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 112

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 7110 South Driveway

BOWEN COLLINS & ASSOCIATES

7110 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 113

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 7200 Access Bridge

BOWEN COLLINS & ASSOCIATES

7200 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 114

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 7200 Access Bridge

BOWEN COLLINS & ASSOCIATES

7200 S

SALT LAKE COUNTY

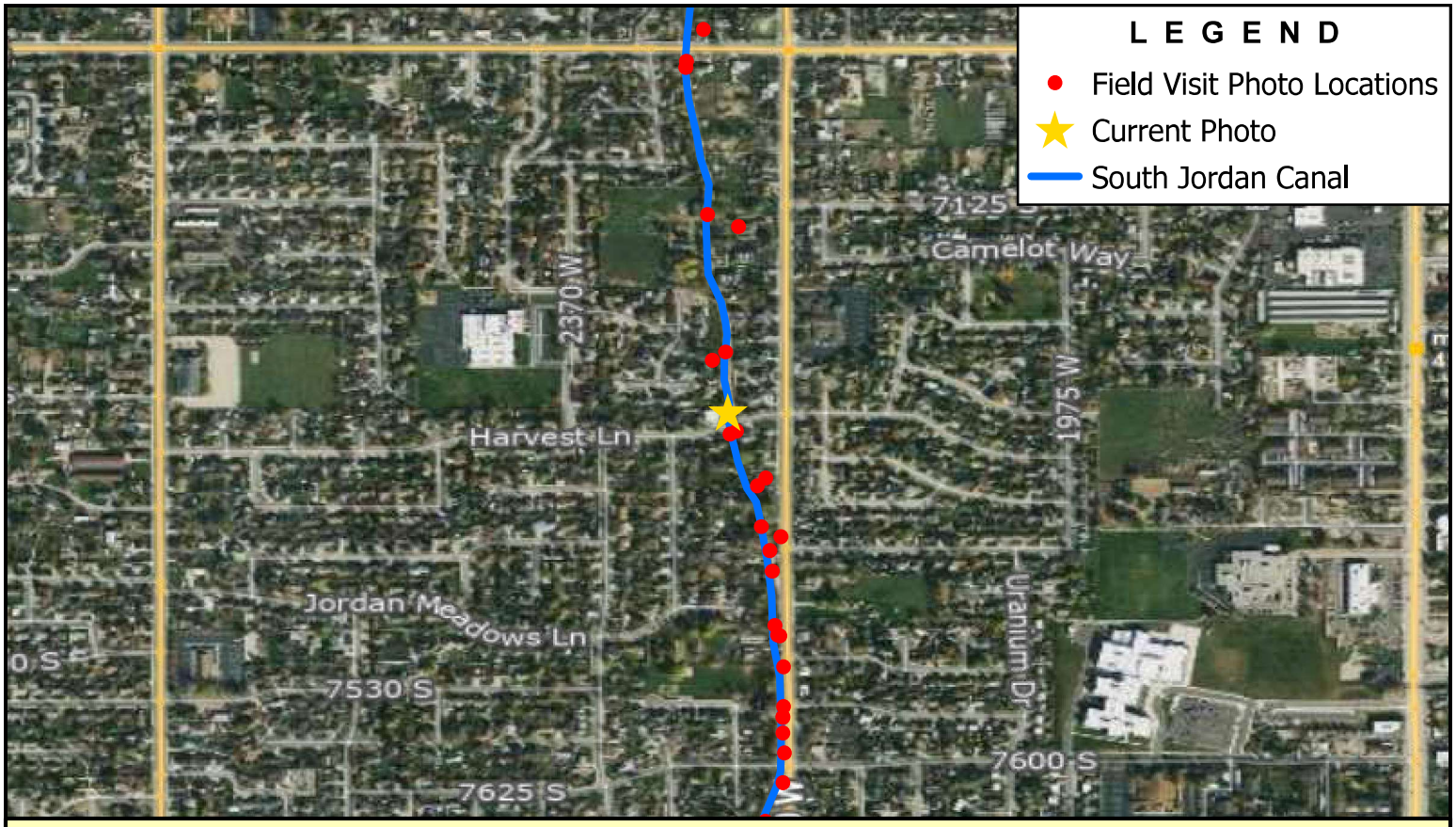
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 115

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Harvest Ln. Crossing

BOWEN COLLINS & ASSOCIATES

Harvest Ln / W 7305 S

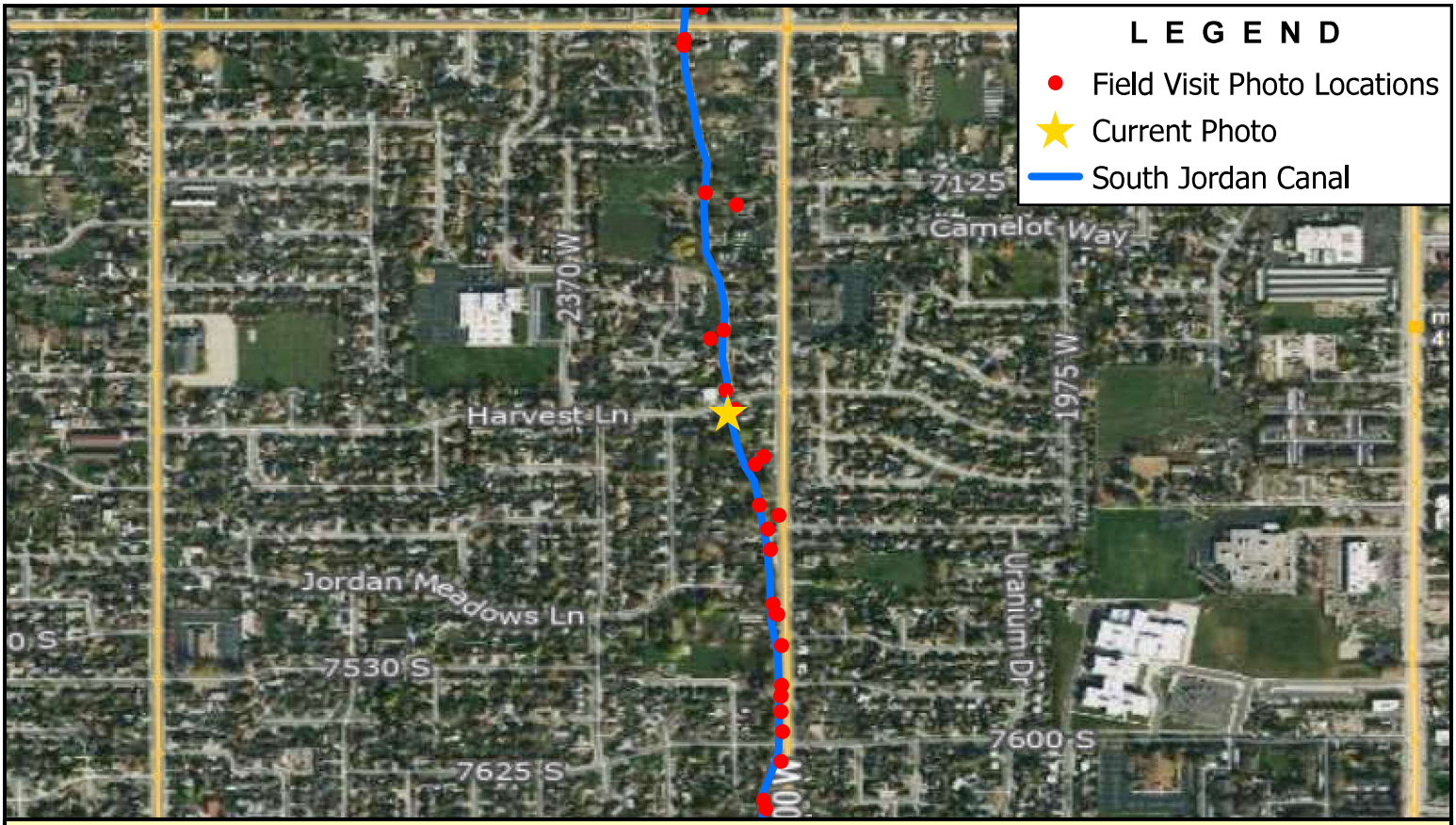
SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 116



Note: Upstream Side of Harvest Ln. Crossing

BOWEN COLLINS & ASSOCIATES

Harvest Ln / W 7305 S

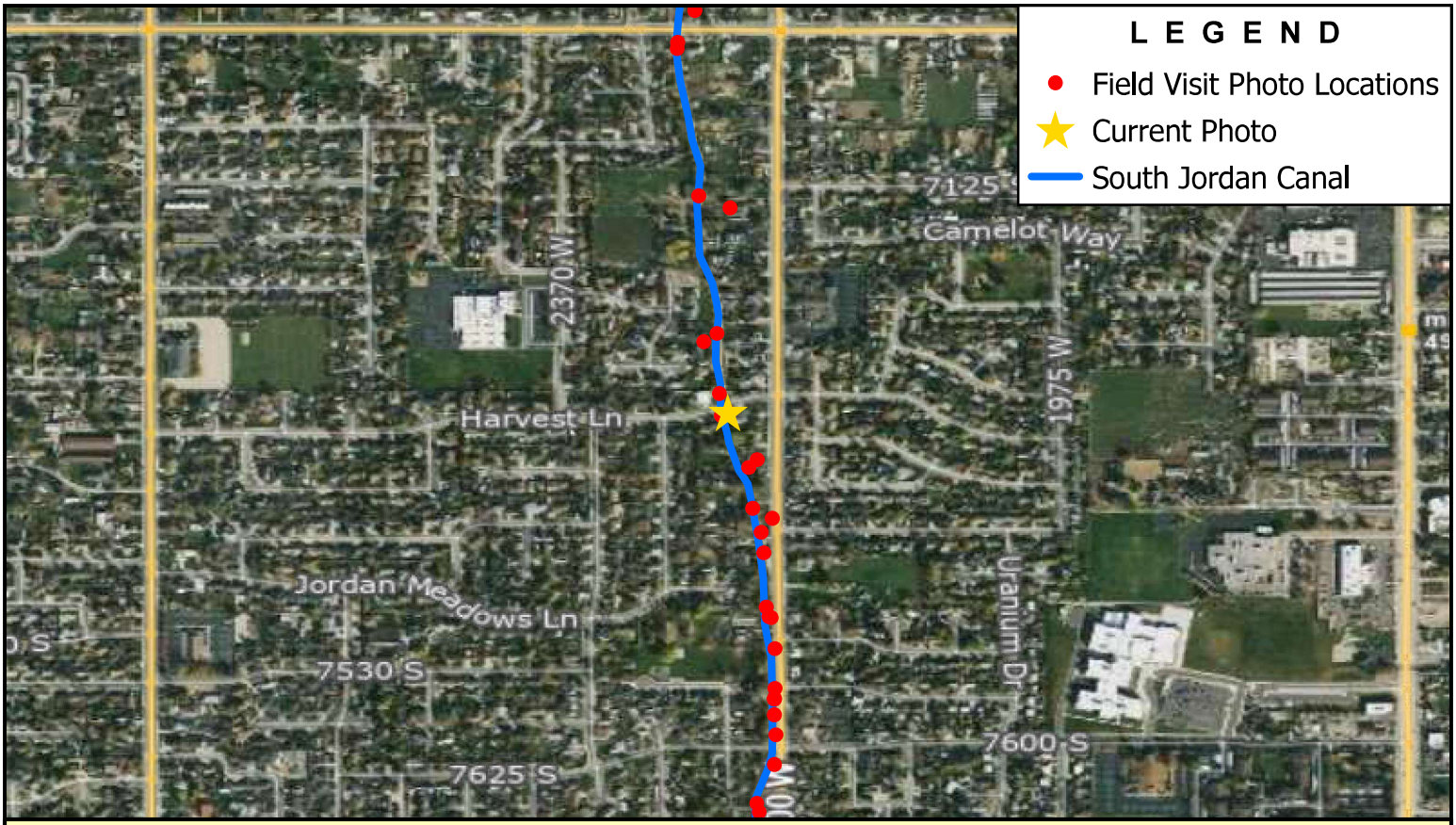
SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 117



Note: Downstream Side of Bridge at 7310 South

BOWEN COLLINS & ASSOCIATES

7310 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 118

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 7360 South Driveway

BOWEN COLLINS & ASSOCIATES

7360 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 119

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 7360 South Driveway

BOWEN COLLINS & ASSOCIATES

7360 S

SALT LAKE COUNTY

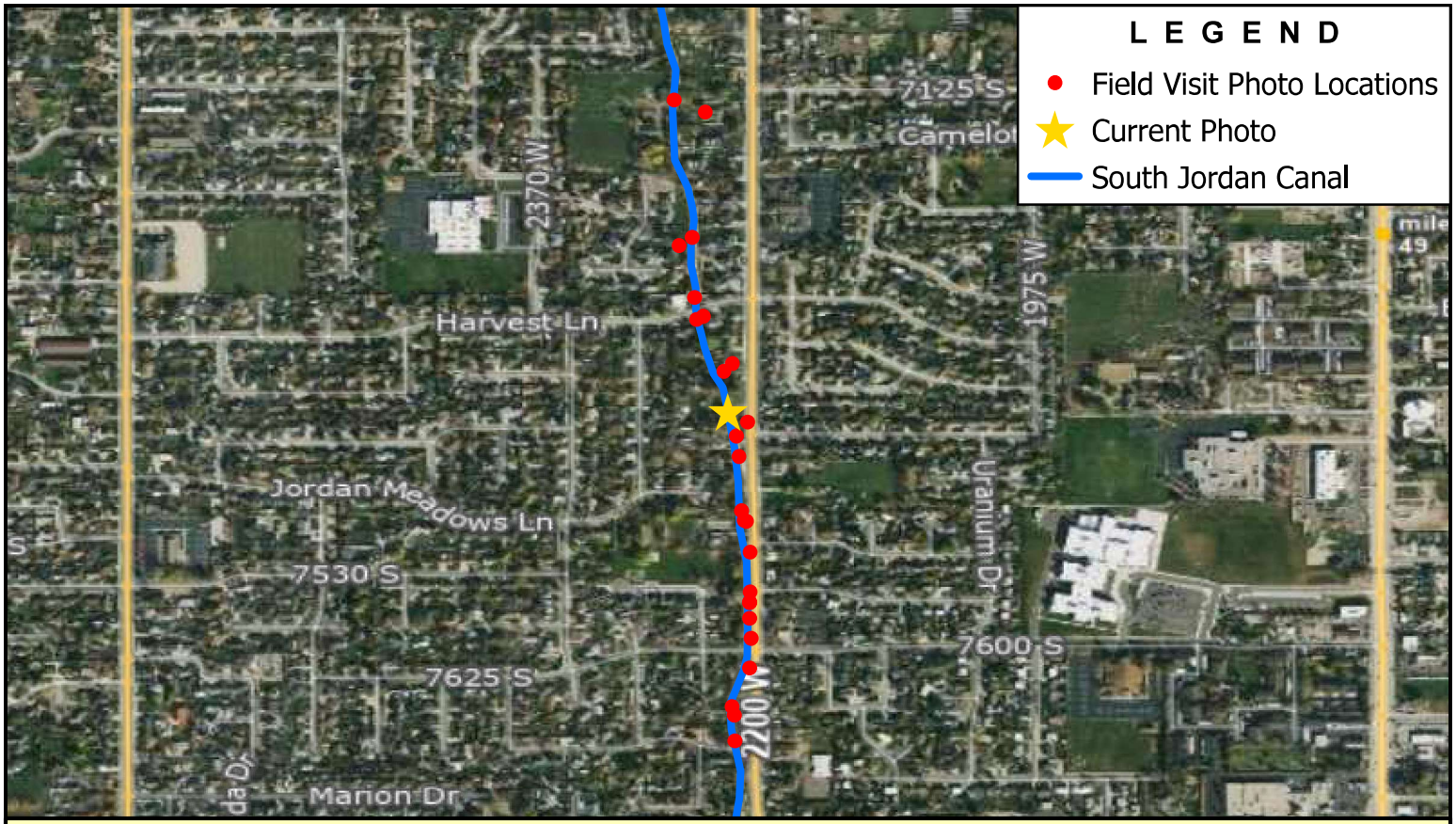
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 120

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 7390 South Driveway

BOWEN COLLINS & ASSOCIATES

7390 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 121

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 7395 South Driveway

BOWEN COLLINS & ASSOCIATES

7395 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 122

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 7400 South Driveway

BOWEN COLLINS & ASSOCIATES

7400 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 123

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 7410 South Driveway

BOWEN COLLINS & ASSOCIATES

7410 S

SALT LAKE COUNTY

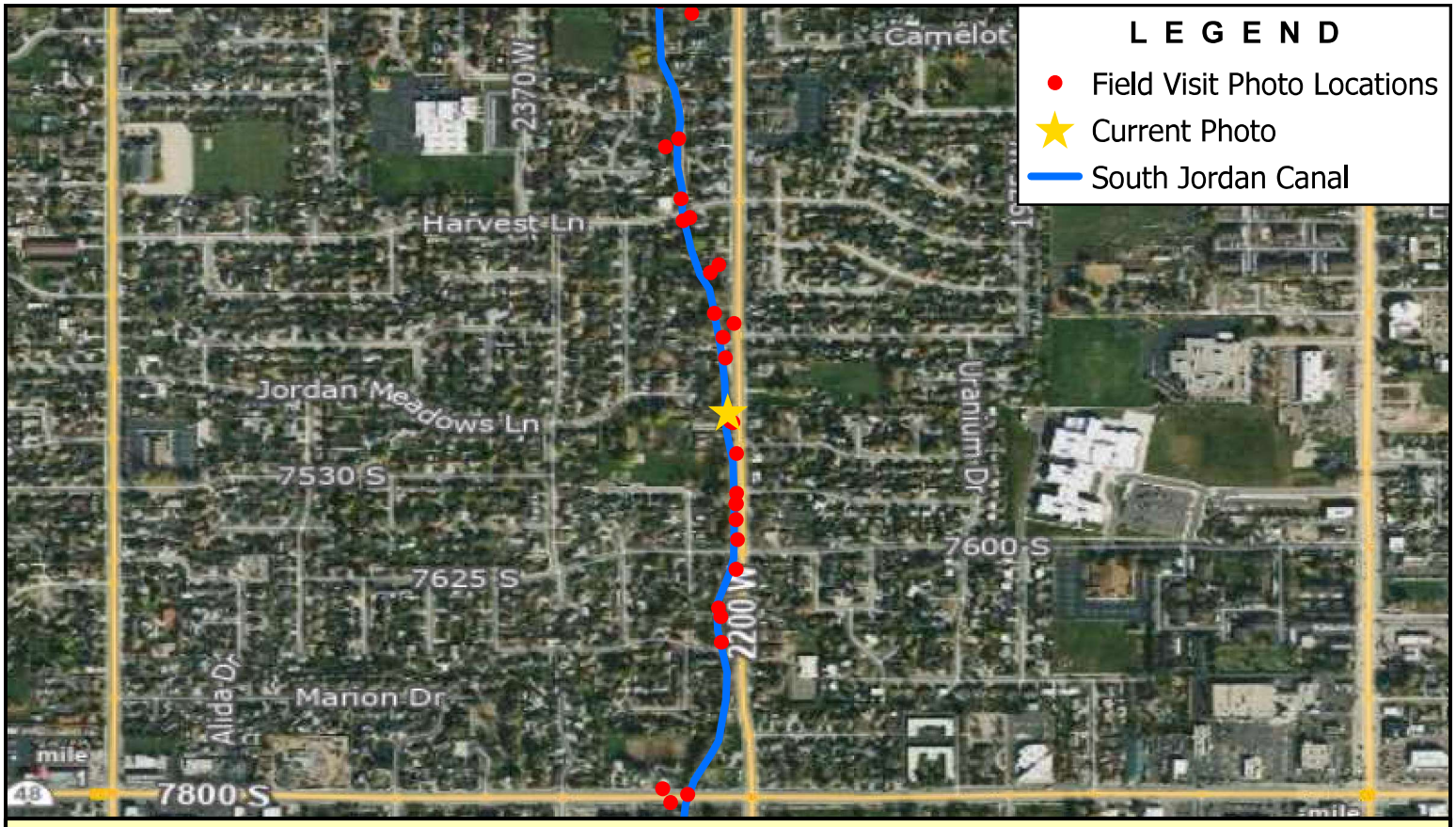
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 124

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 7500 South Driveway

BOWEN COLLINS & ASSOCIATES

7500 S

SALT LAKE COUNTY

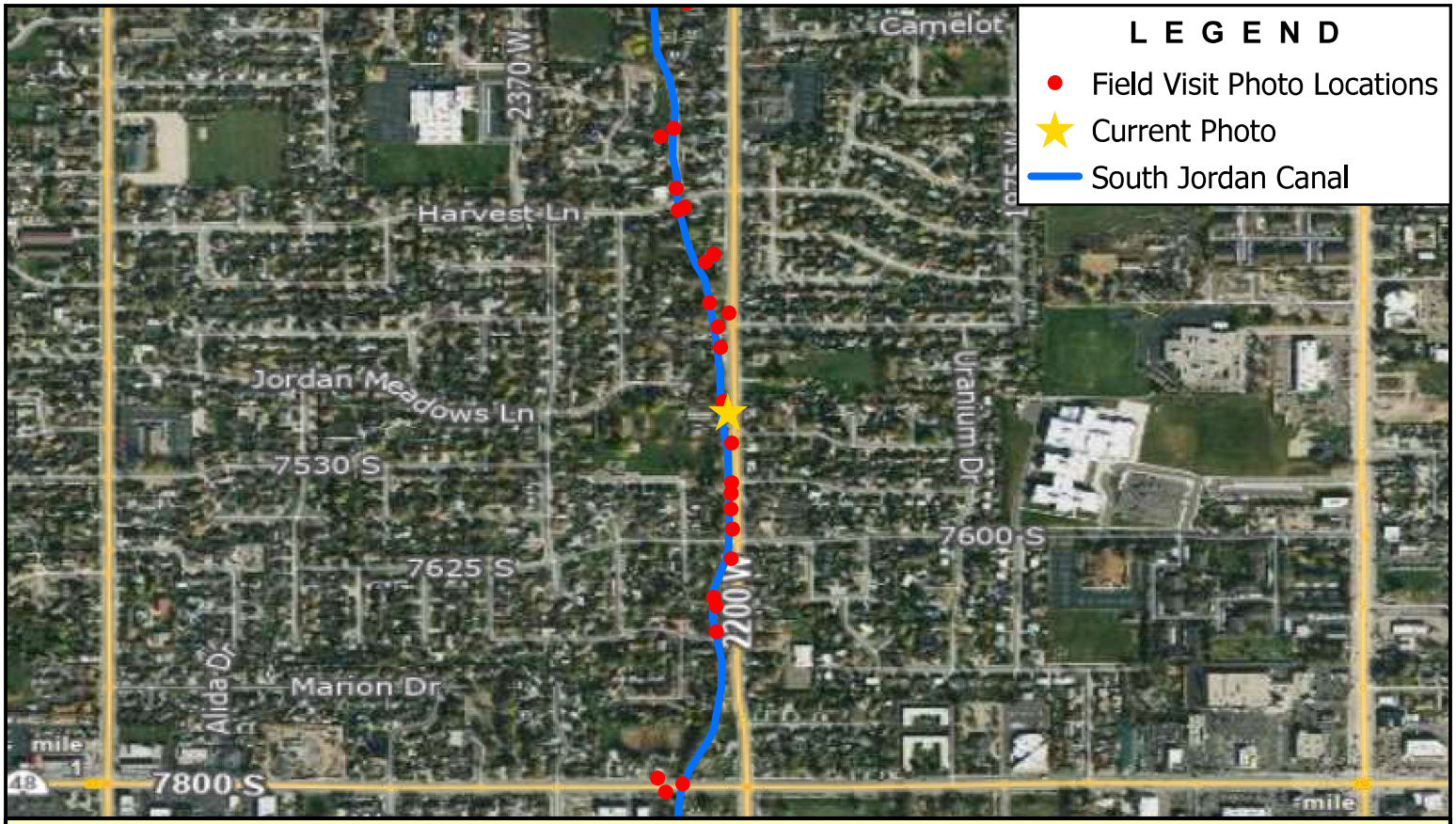
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 125

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 7500 South Driveway

BOWEN COLLINS & ASSOCIATES

7500 S

SALT LAKE COUNTY

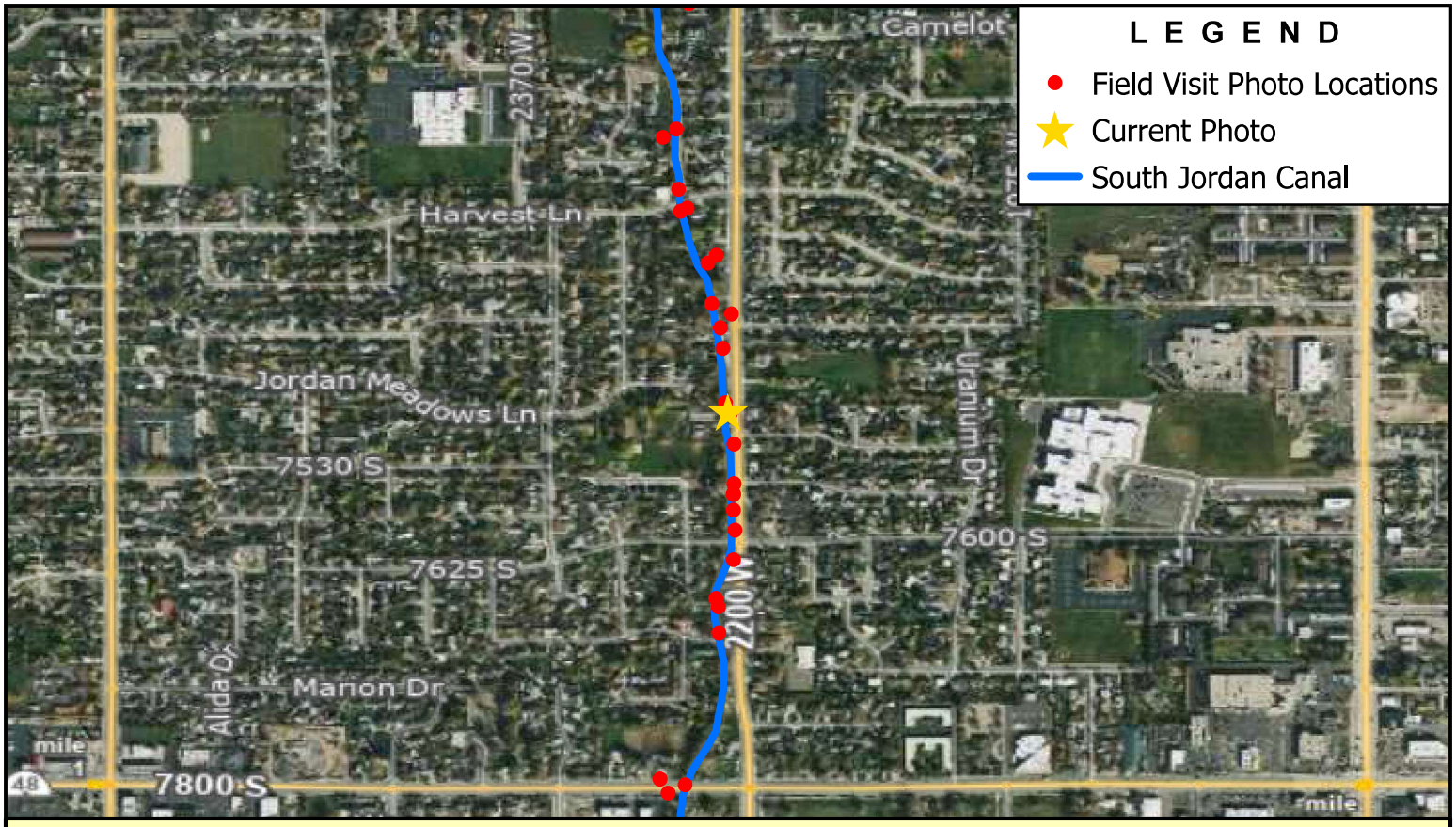
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 126

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 7510 South Driveway

BOWEN COLLINS & ASSOCIATES

7510 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

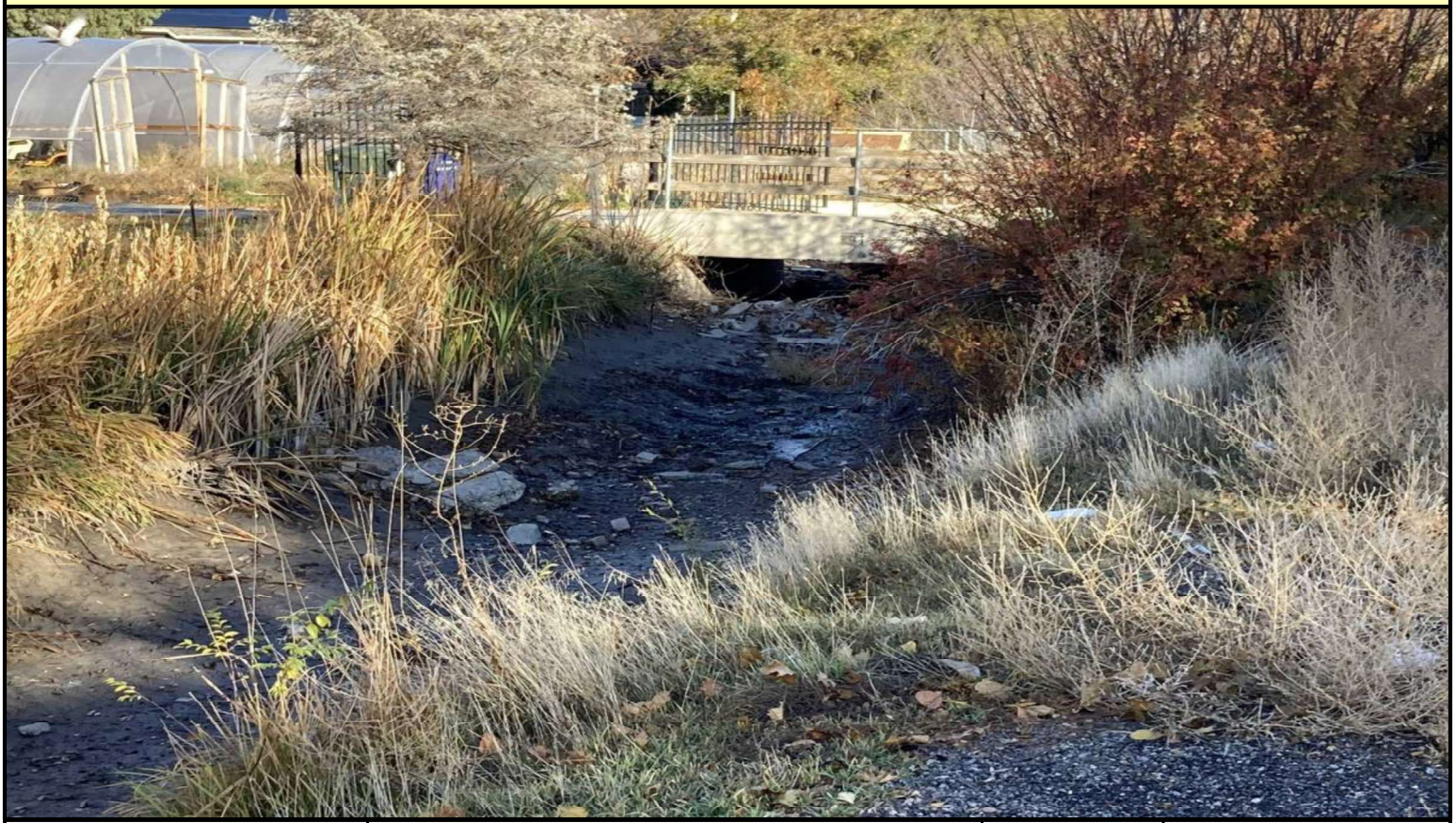
NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 127

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 7510 South Driveway



BOWEN COLLINS & ASSOCIATES

7510 S

SALT LAKE COUNTY

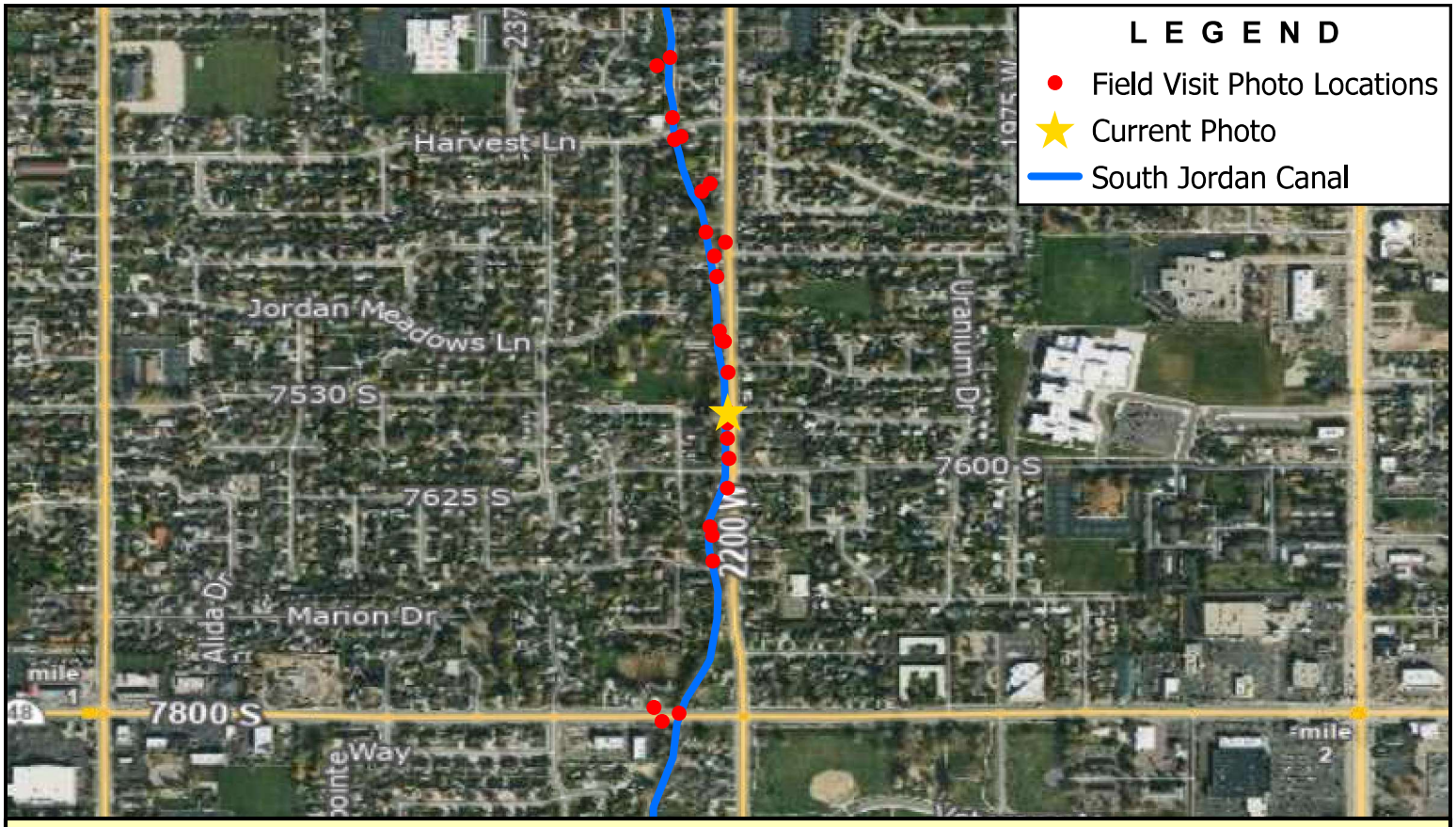
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 128

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 7551 South Driveway

BOWEN COLLINS & ASSOCIATES

7551 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 129

Note: Upstream Side of 7551 South Driveway

BOWEN COLLINS & ASSOCIATES

7551 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 130

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 7560 South Driveway

BOWEN COLLINS & ASSOCIATES

by W 7560 S

SALT LAKE COUNTY

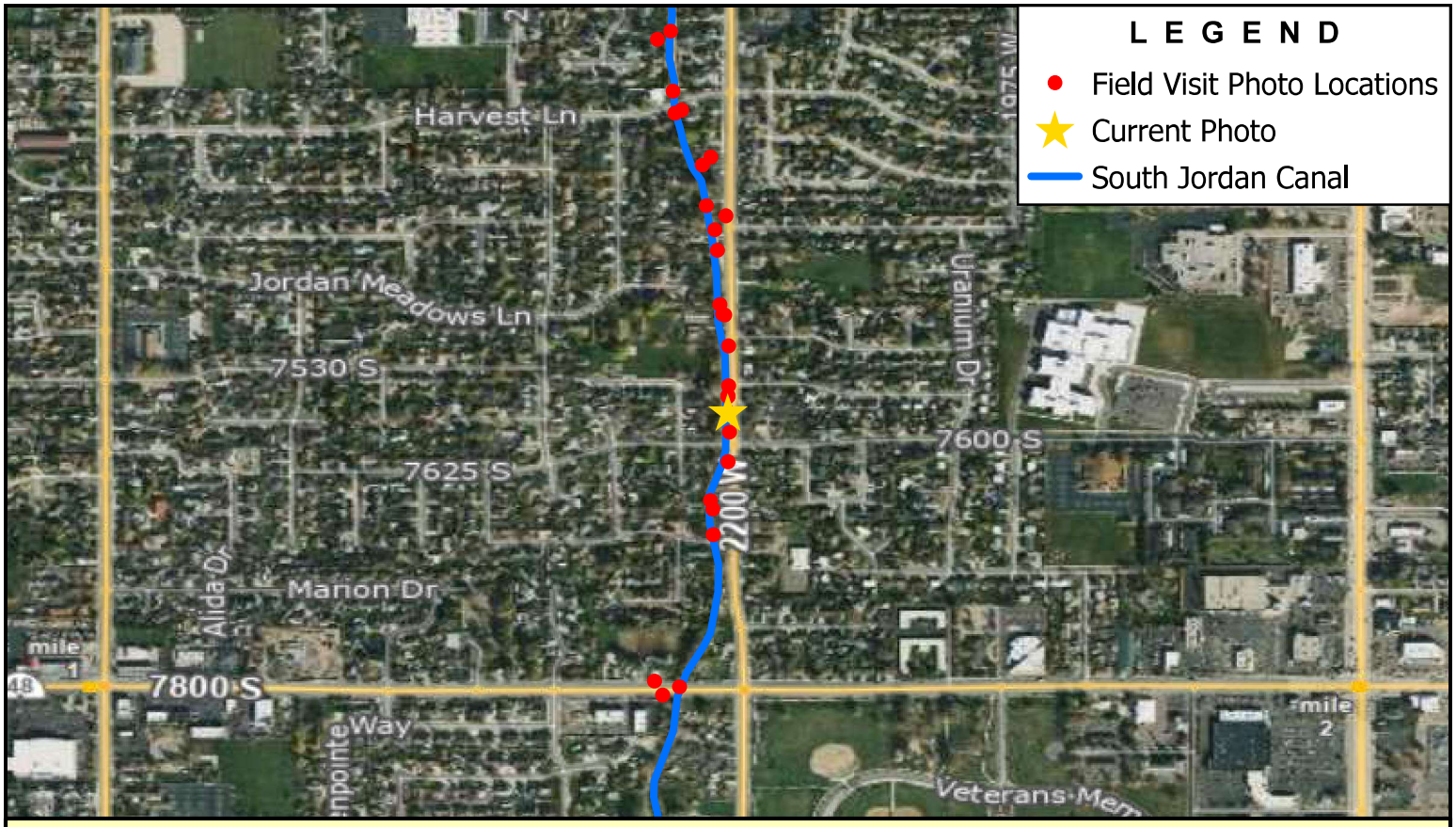
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 131

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 7560 South Driveway

BOWEN COLLINS & ASSOCIATES

by W 7560 S

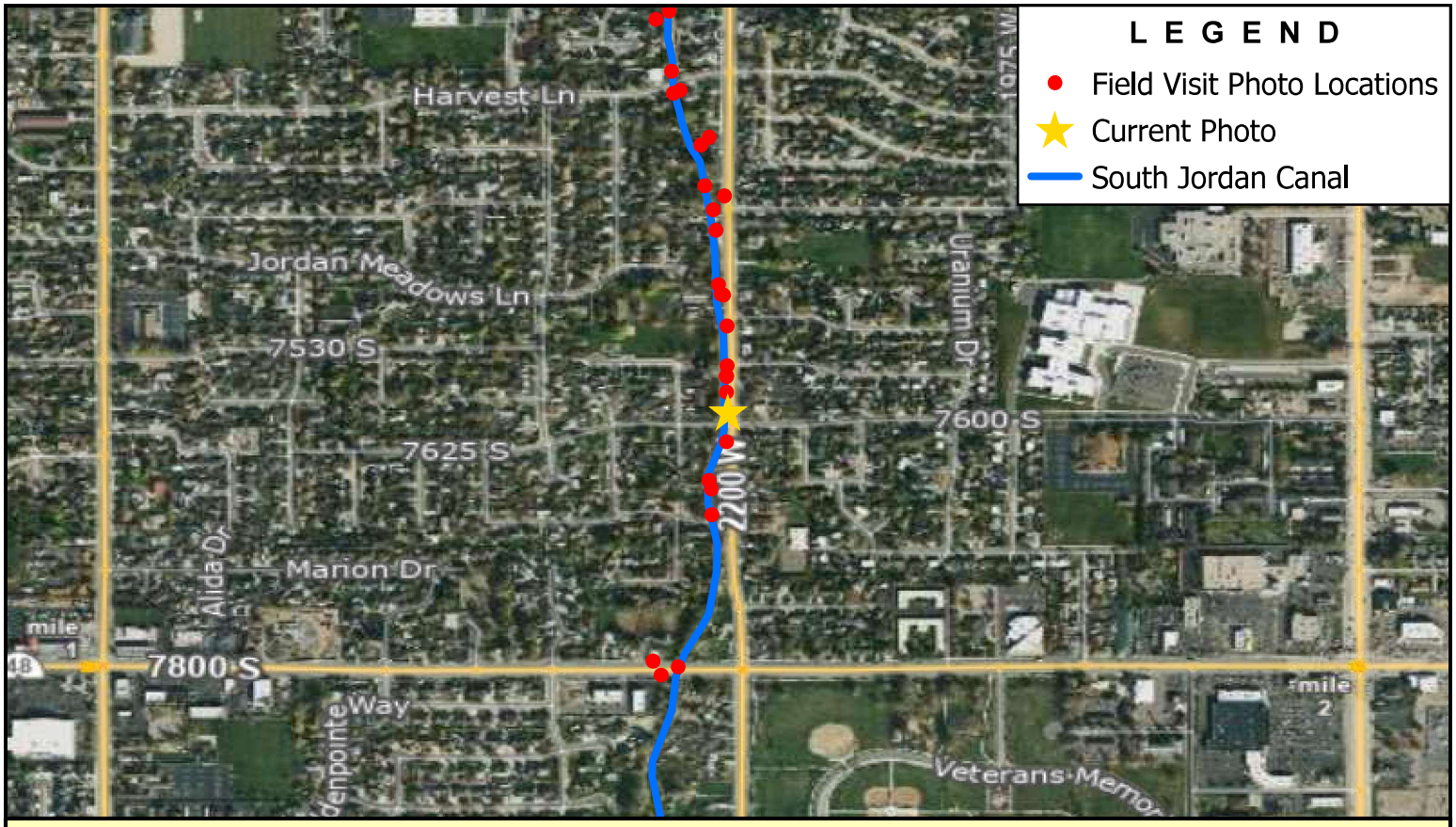
NORTH:

SCALE: 0 500 1,000 Feet

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

PHOTOGRAPH NO. 132



Note: Downstream Side of 7600 South Crossing

BOWEN COLLINS & ASSOCIATES

W 7600 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

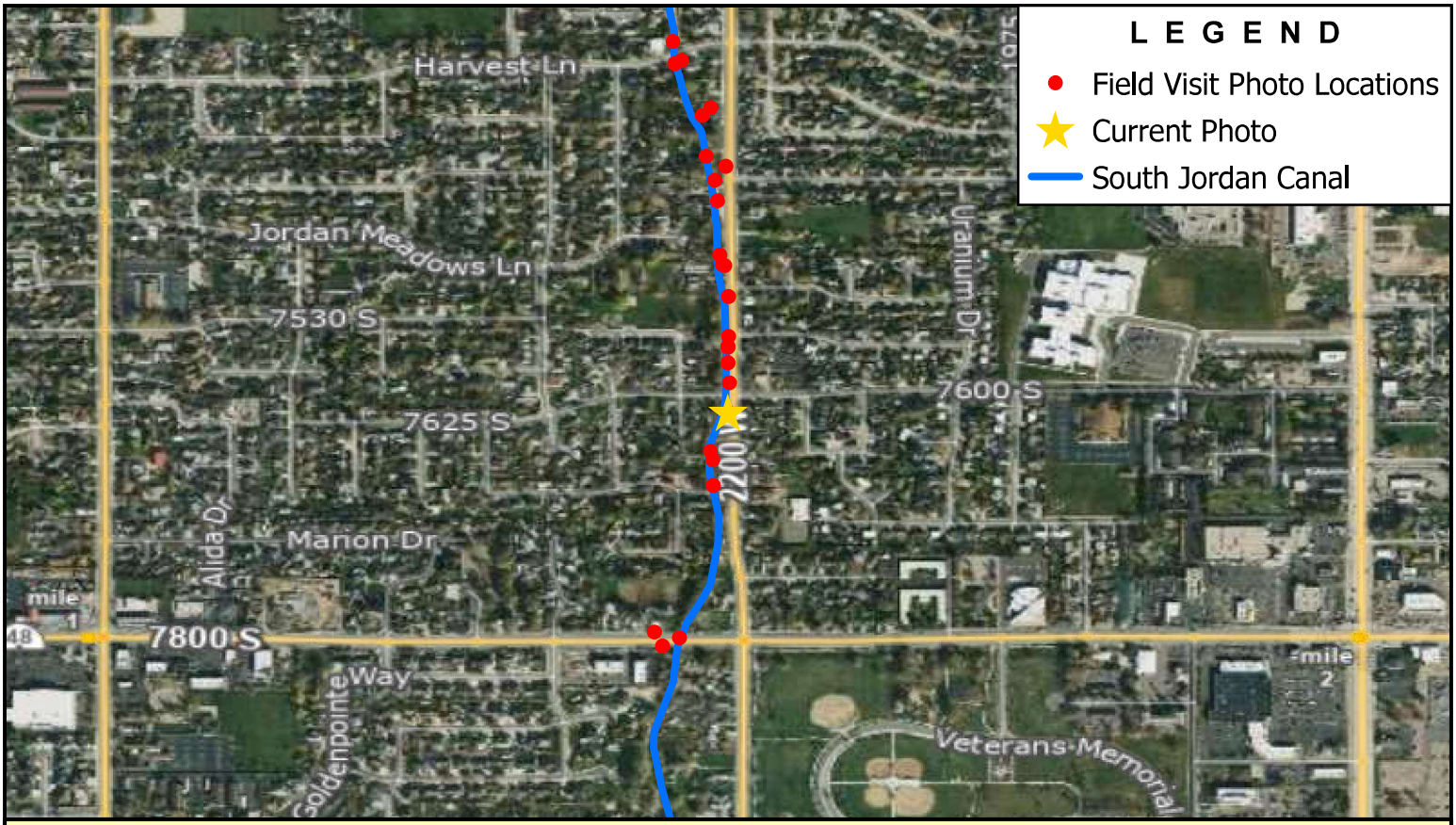
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 133

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 7600 South Crossing

BOWEN COLLINS & ASSOCIATES

W 7600 S

SALT LAKE COUNTY

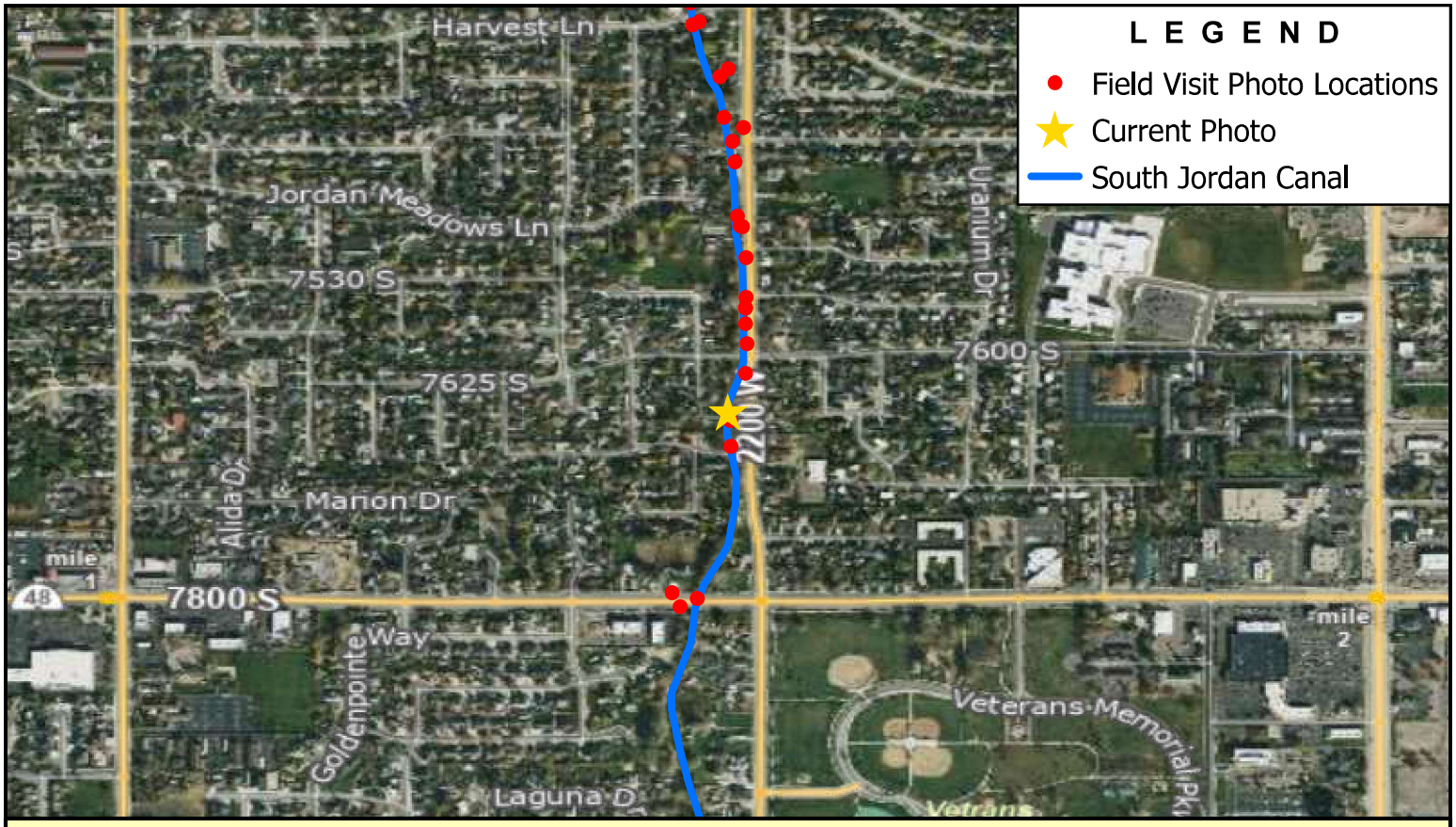
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 134

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 7640 South Driveway

BOWEN COLLINS & ASSOCIATES

w 7640 S

SALT LAKE COUNTY

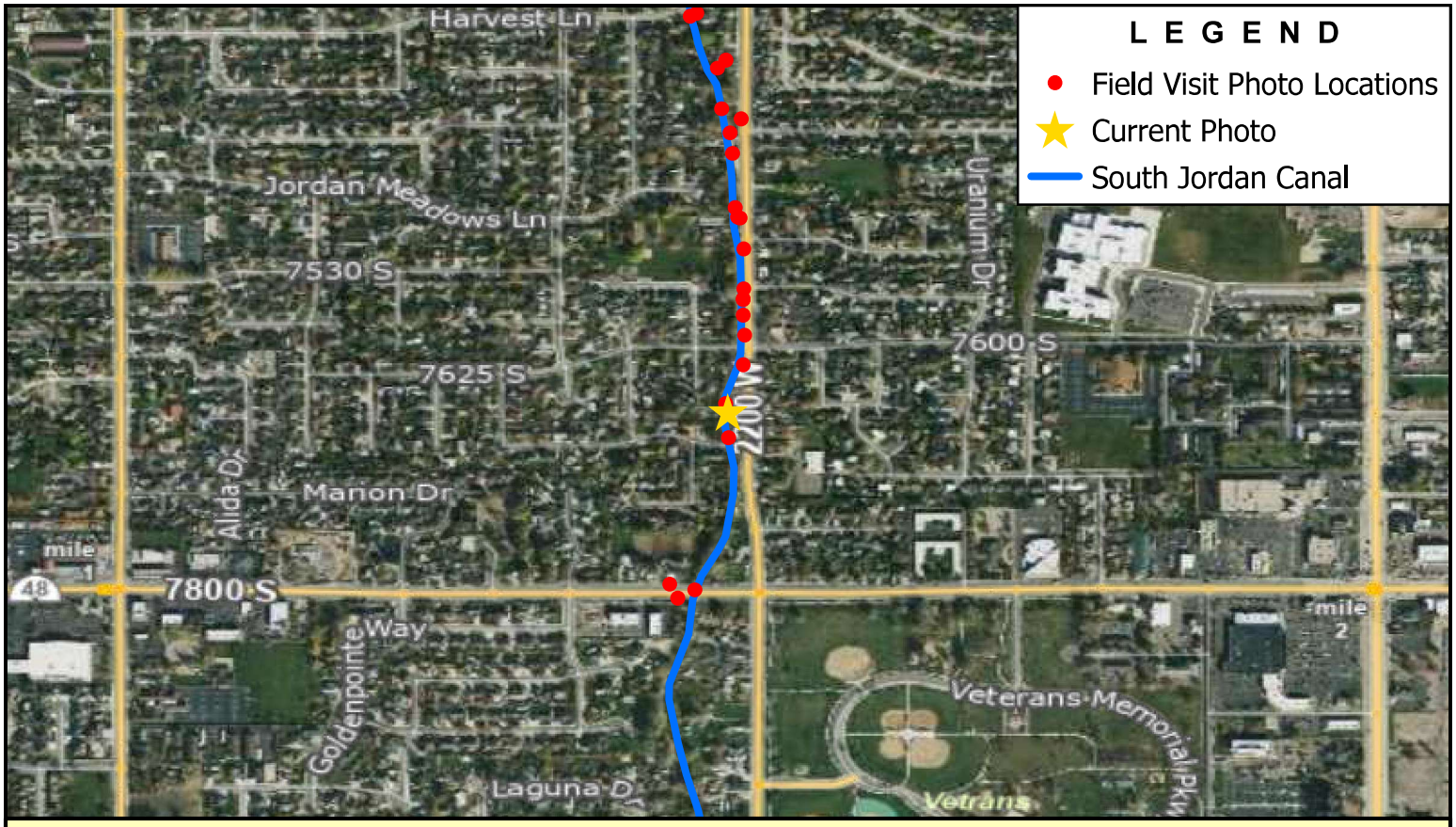
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 135

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of 7640 South Driveway

BOWEN COLLINS & ASSOCIATES

w 7640 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 136

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 7680 South Crossing

BOWEN COLLINS & ASSOCIATES

W 7680 S

SALT LAKE COUNTY

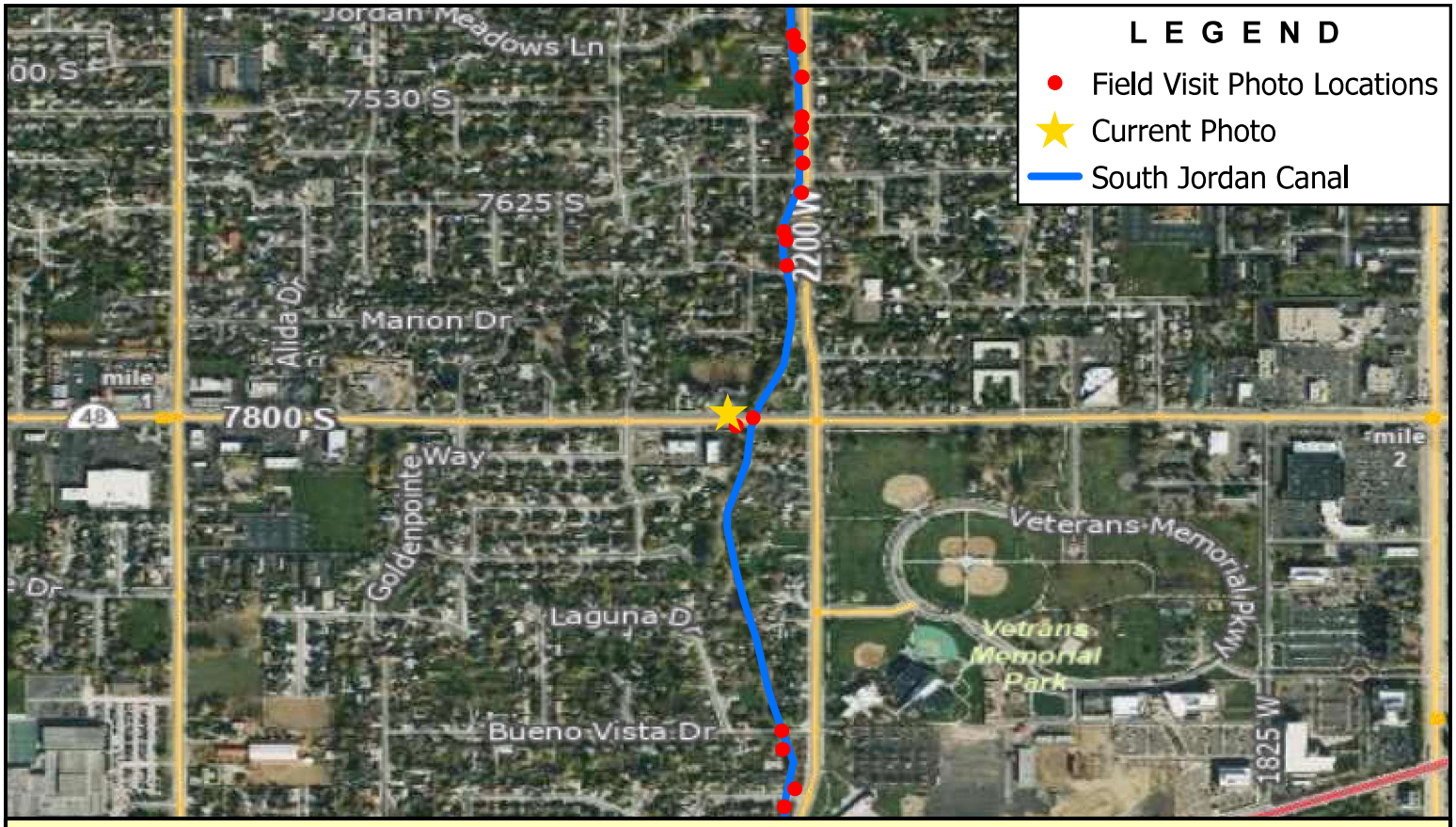
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 137

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: 7800 South Dumpout

BOWEN COLLINS & ASSOCIATES

7800 South Dumpout

SALT LAKE COUNTY

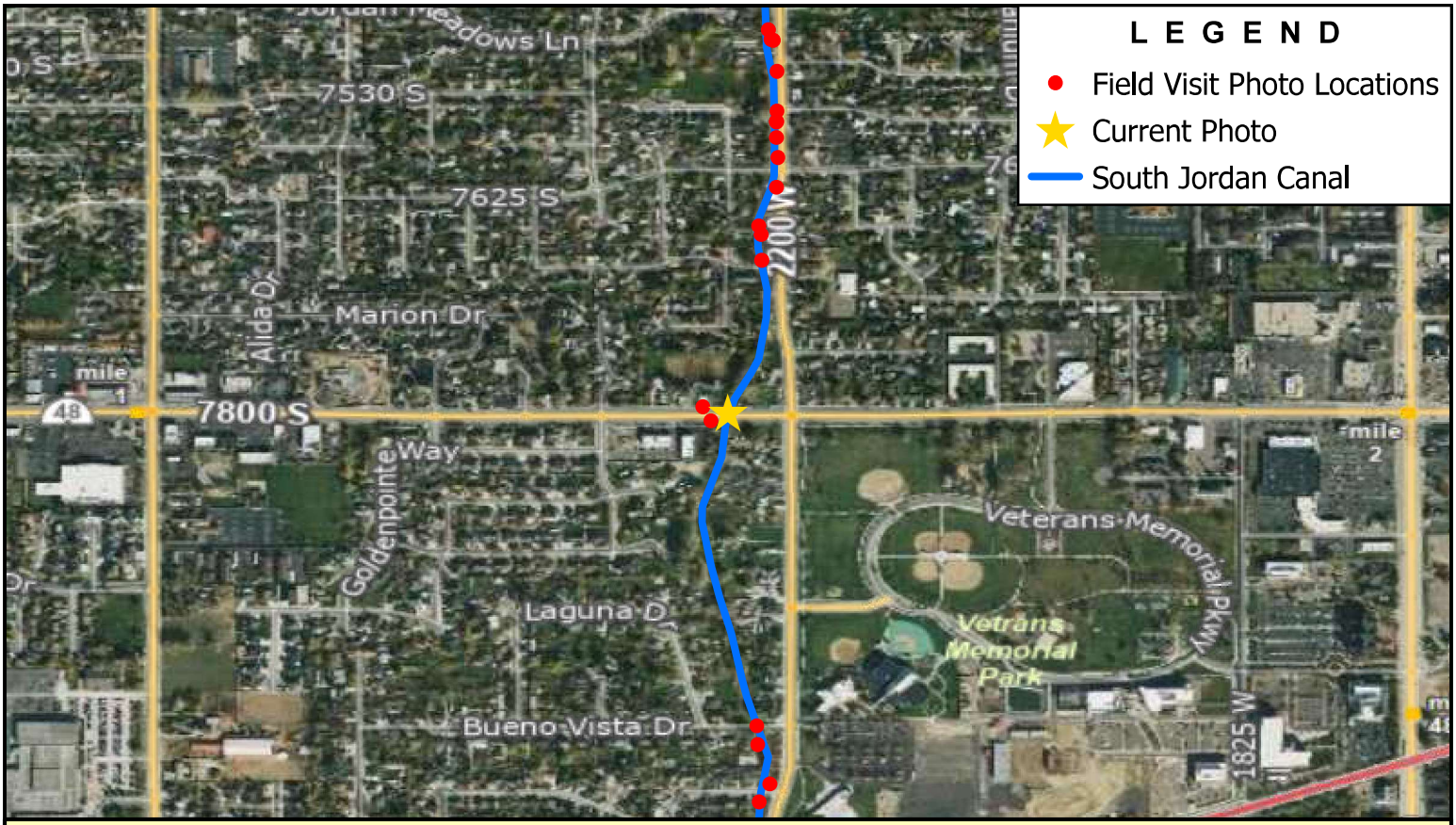
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 138

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 7800 South Crossing

BOWEN COLLINS & ASSOCIATES

W 7800S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 139

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 7800 South Crossing

BOWEN COLLINS & ASSOCIATES

W 7800S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 140

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of Bueno Vista Dr. Crossing

BOWEN COLLINS & ASSOCIATES

W Bueno Vista Dr / 8070 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 141

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Bueno Vists Dr. Crossing

BOWEN COLLINS & ASSOCIATES

W Bueno Vista Dr / 8070 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 142

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of 8120 South Crossing

BOWEN COLLINS & ASSOCIATES

W 8120 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 143

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 8120 South Crossing

BOWEN COLLINS & ASSOCIATES

W 8120 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 144

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of Pauline Way Crossing

BOWEN COLLINS & ASSOCIATES

W Pauline Way / 8190 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 145

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Pauline Way Crossing

BOWEN COLLINS & ASSOCIATES

W Pauline Way / 8190 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 146

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of Trax Line

BOWEN COLLINS & ASSOCIATES

Train Rails /

SALT LAKE COUNTY

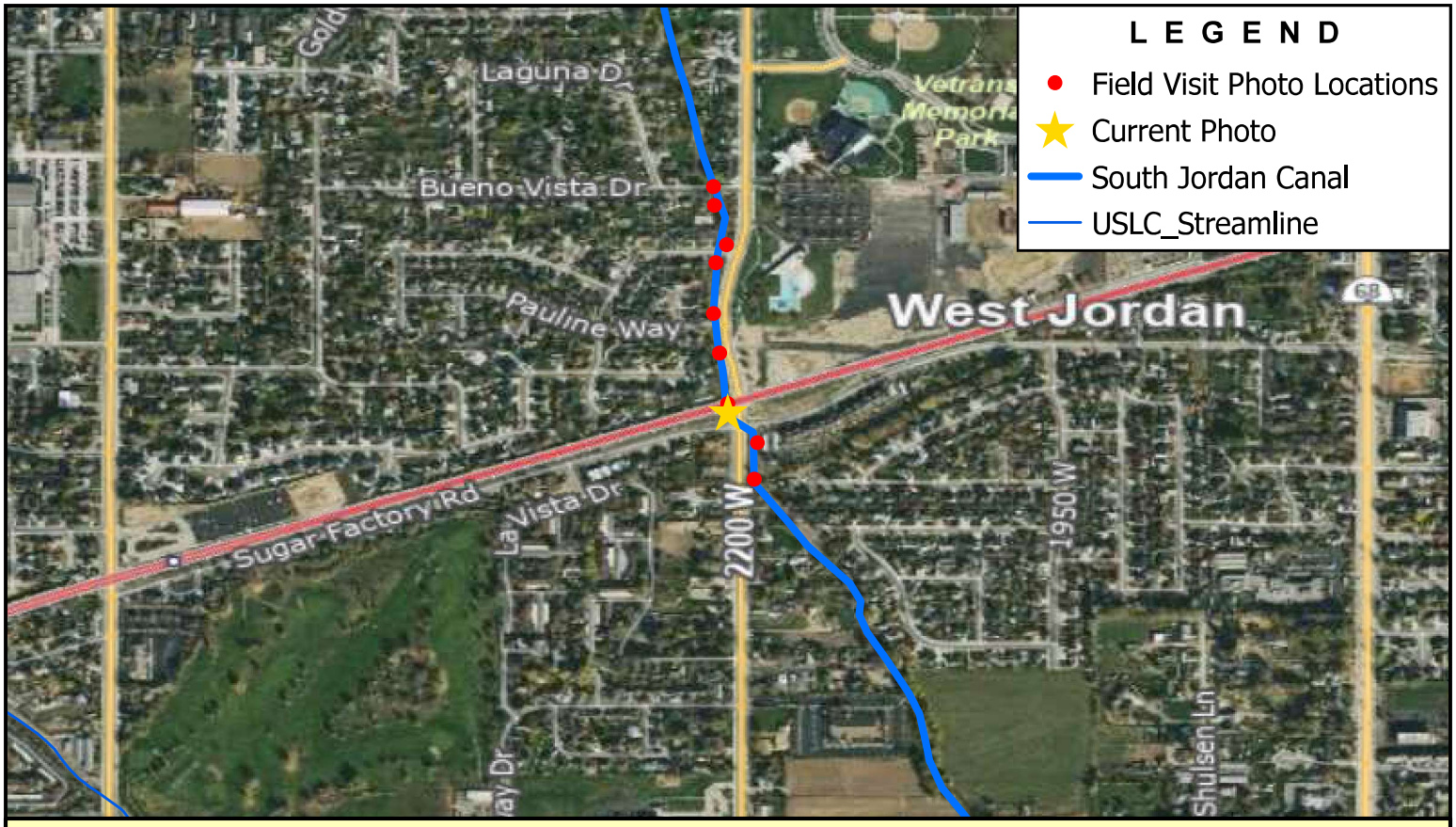
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 147

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Trax Line

BOWEN COLLINS & ASSOCIATES

Train Rails /

SALT LAKE COUNTY

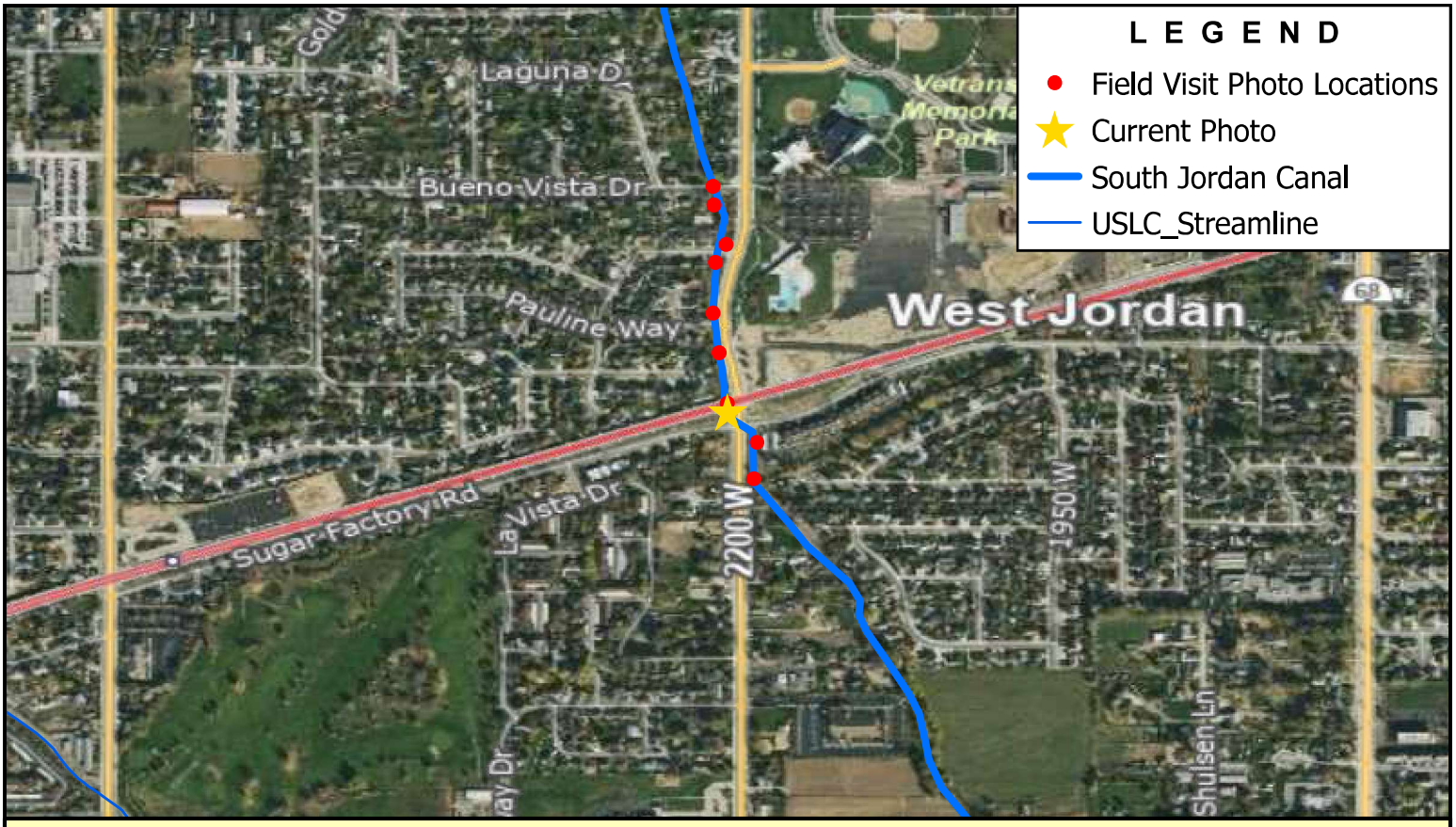
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 148

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Sugar Factory Rd. Crossing

BOWEN COLLINS & ASSOCIATES

W Sugar Factory Rd/ S 2200 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 149

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Sugar Factory Rd. Crossing

BOWEN COLLINS & ASSOCIATES

W Sugar Factory Rd/ S 2200 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 150

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Bingham Creek Dumpout

BOWEN COLLINS & ASSOCIATES

Bingham Creek Dumpout

SALT LAKE COUNTY

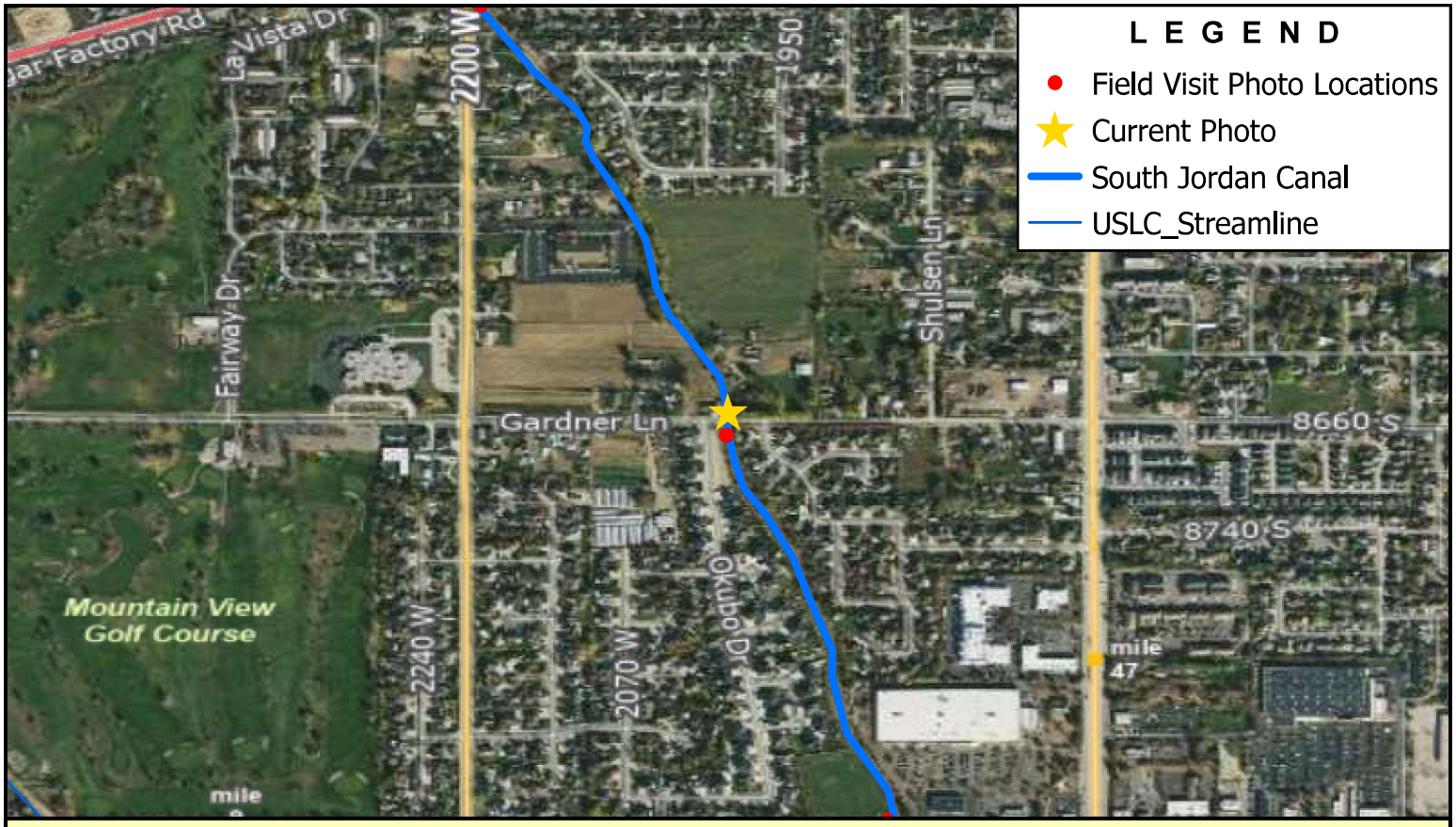
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 151

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Gardner Ln. Crossing

BOWEN COLLINS & ASSOCIATES

Gardner Ln, 8660 S

SALT LAKE COUNTY

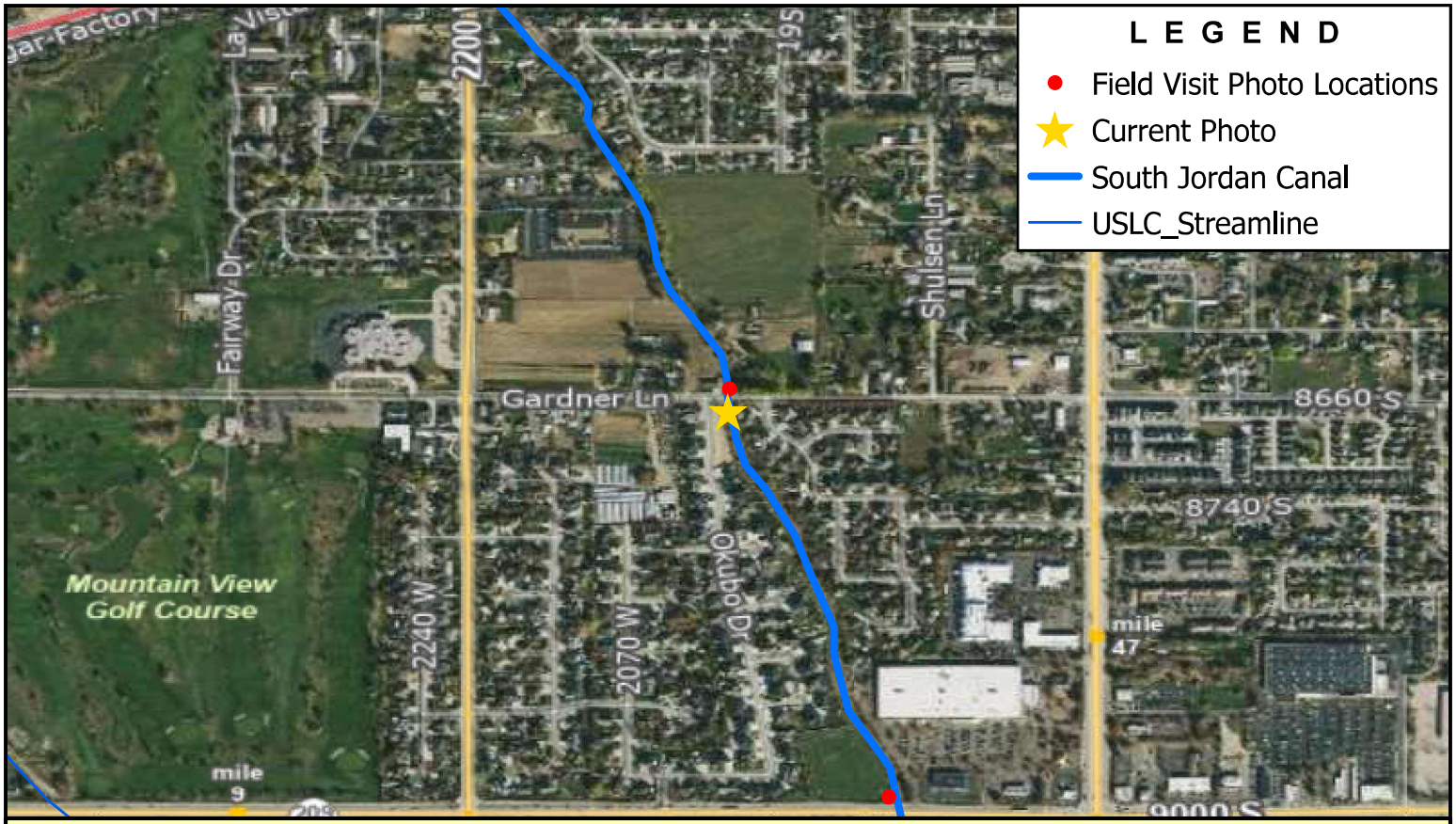
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 152

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Gardner Ln. Crossing

BOWEN COLLINS & ASSOCIATES

Gardner Ln, 8660 S

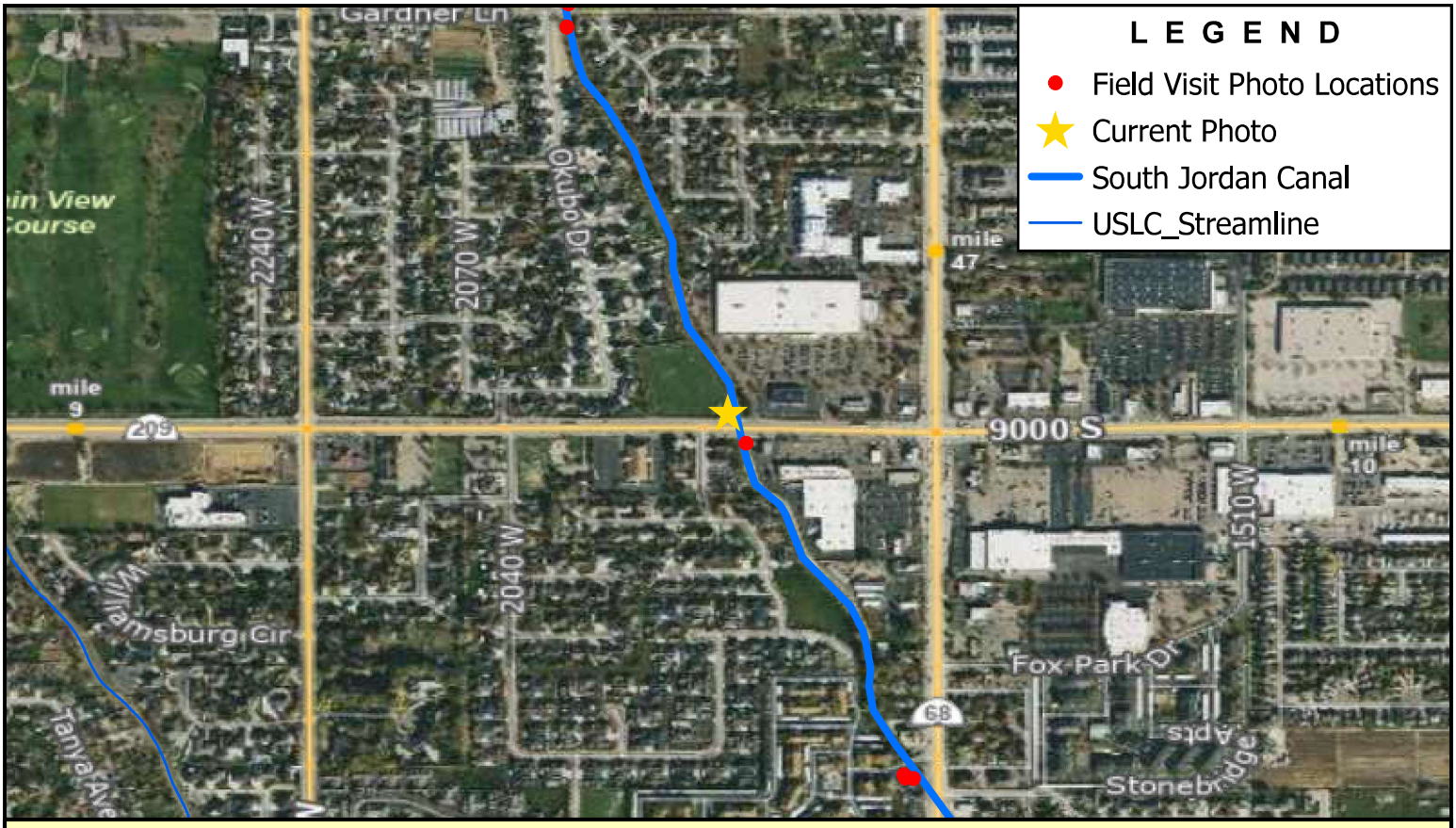
SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

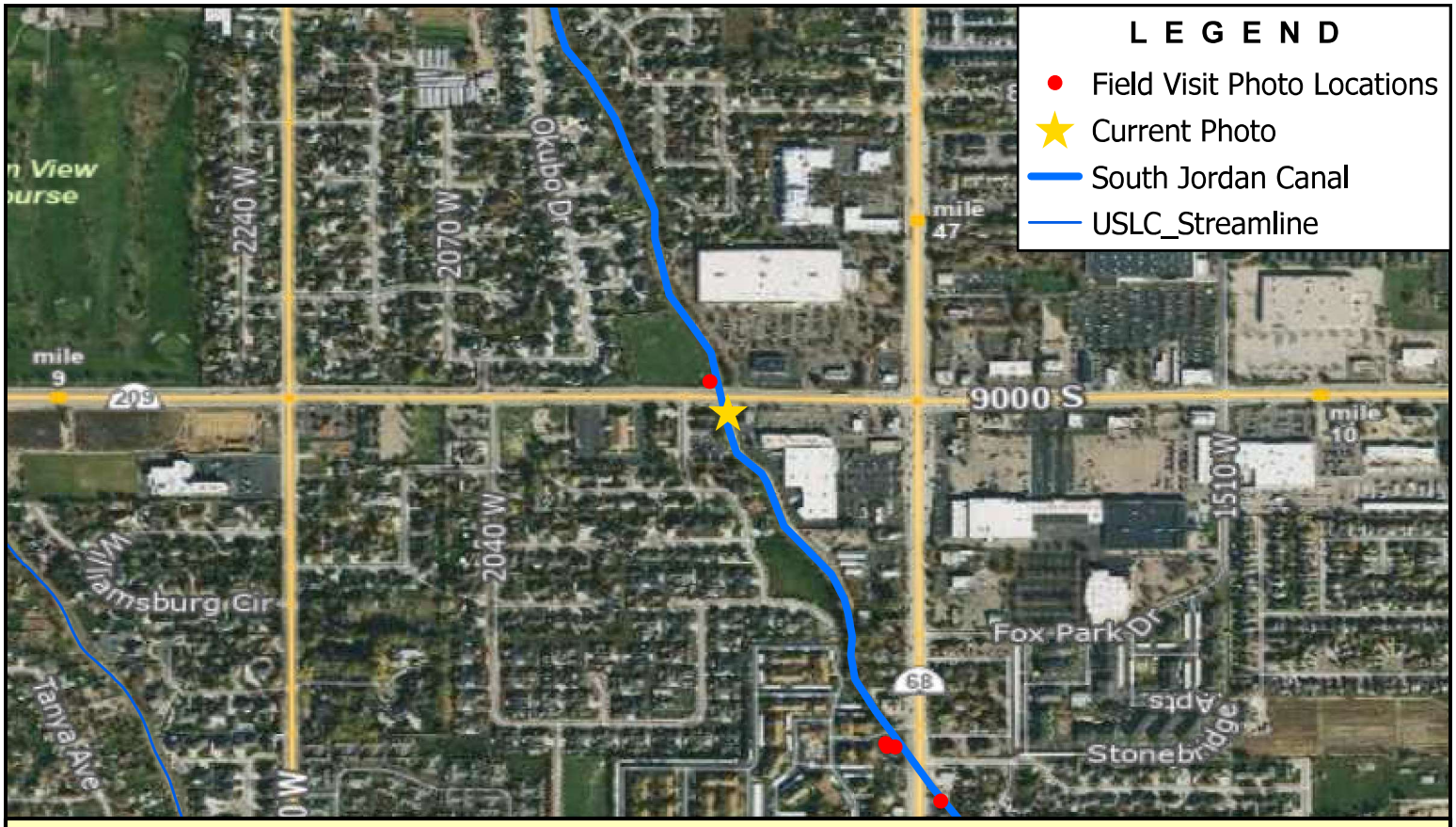
PHOTOGRAPH NO. 153



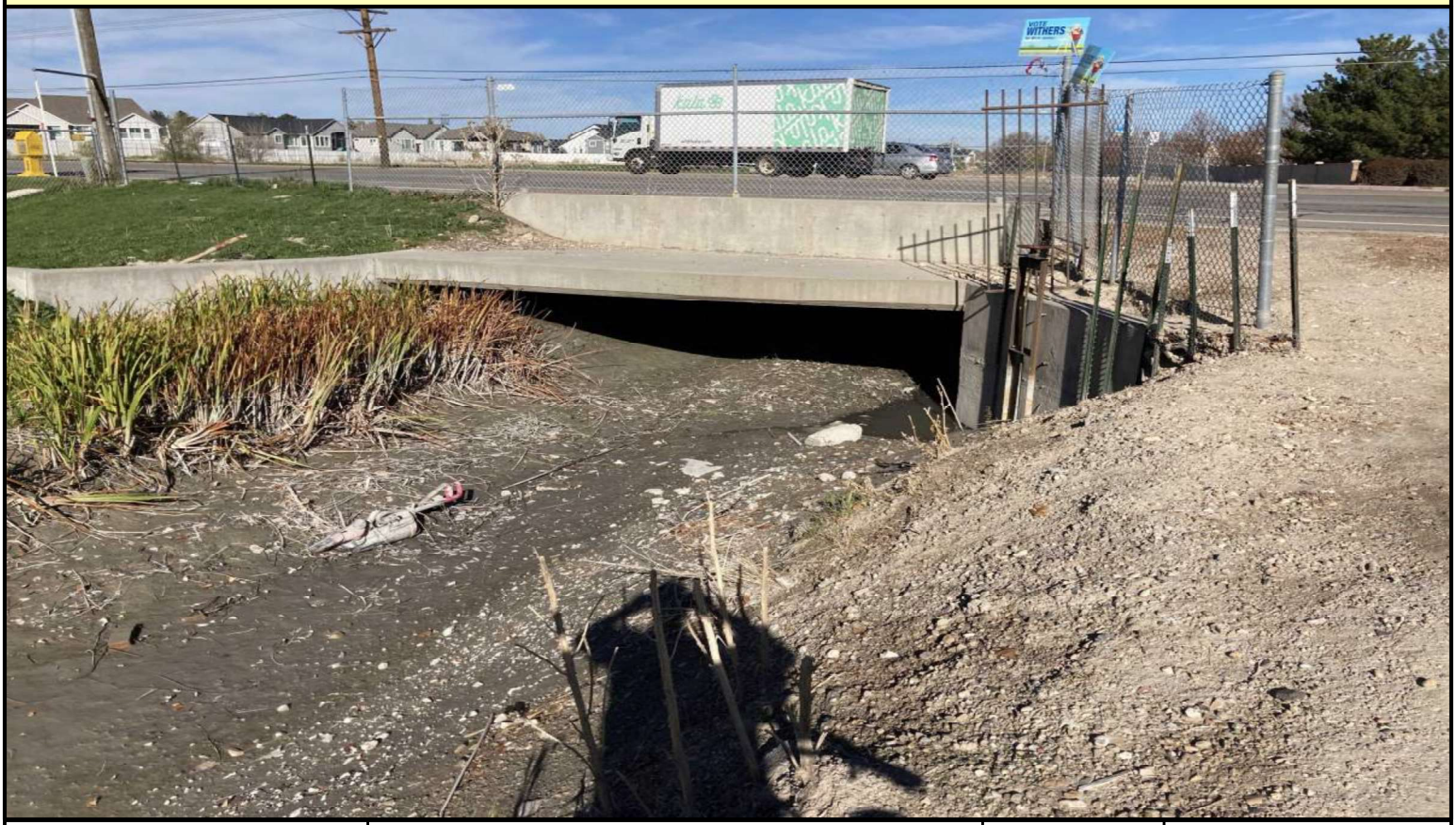
Note: Downstream Side of 9000 South Crossing

BOWEN COLLINS & ASSOCIATES	W 9000 S	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 154

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

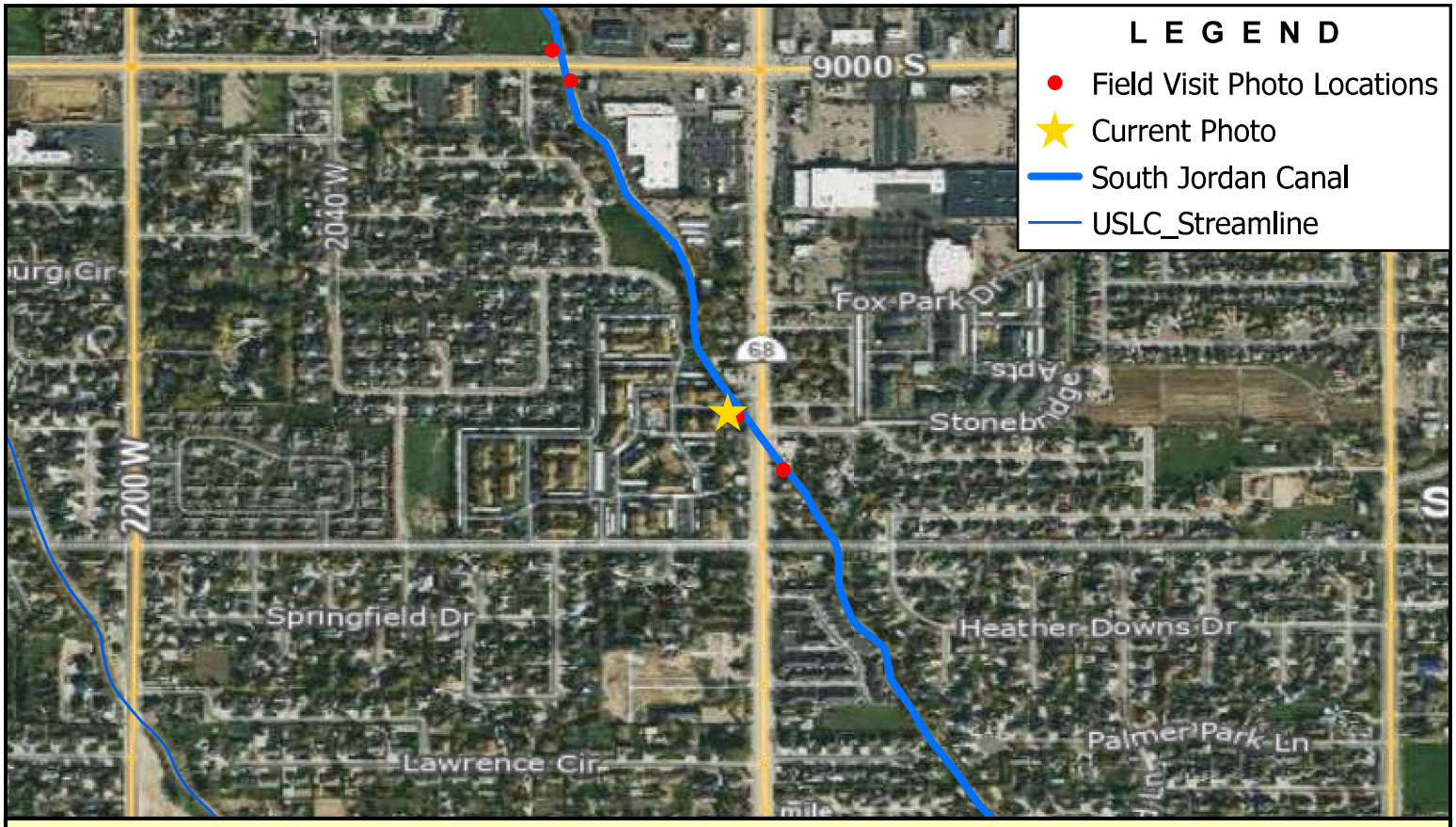


Note: Upstream Side of 9000 South Crossing



BOWEN COLLINS & ASSOCIATES	W 9000 S	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 155

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Willow Cove Apartments

BOWEN COLLINS & ASSOCIATES

Willow Cove Apartments

SALT LAKE COUNTY

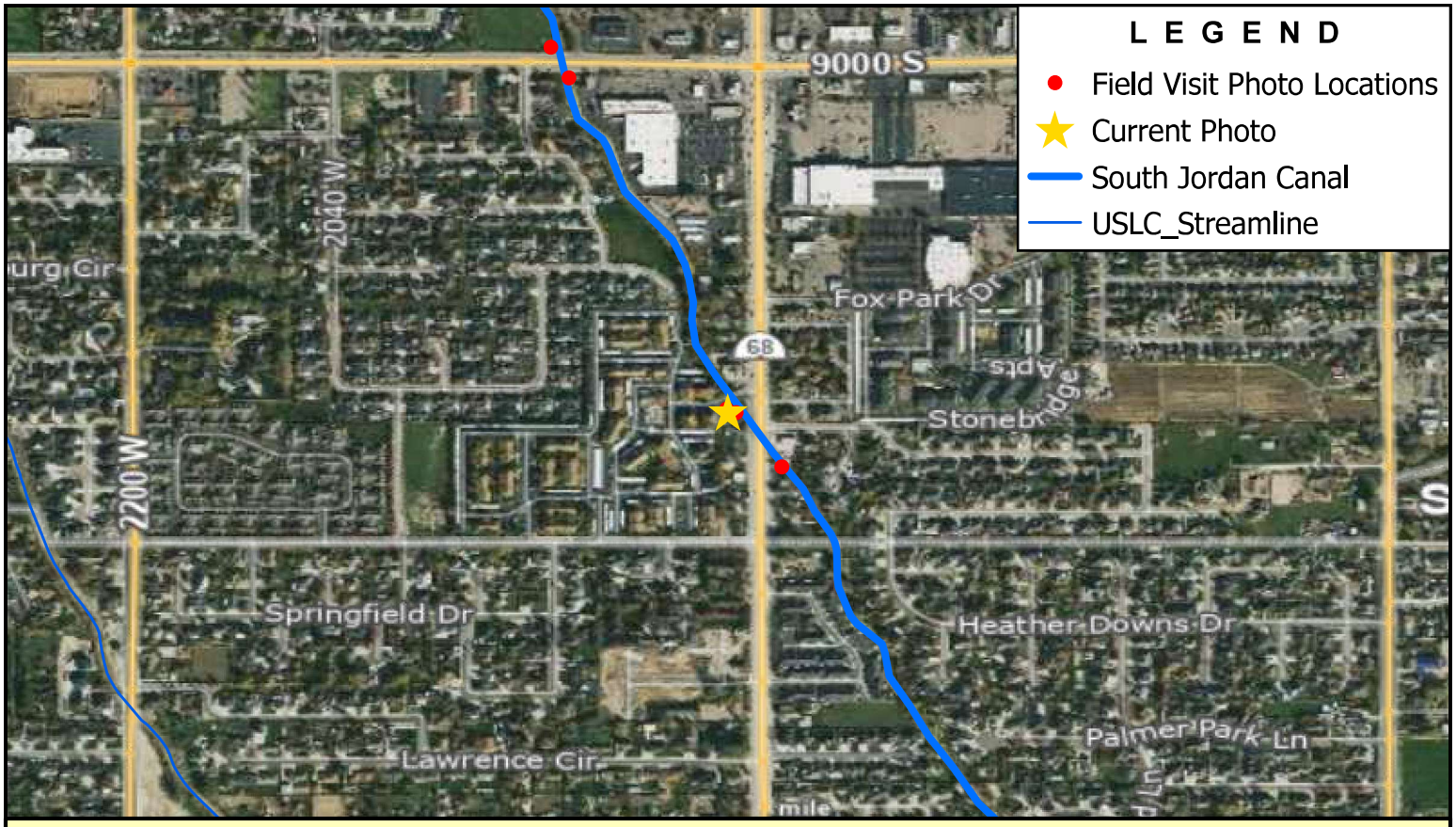
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 156

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Willow Cove Apartments

BOWEN COLLINS & ASSOCIATES

Willow Cove Apartments

SALT LAKE COUNTY

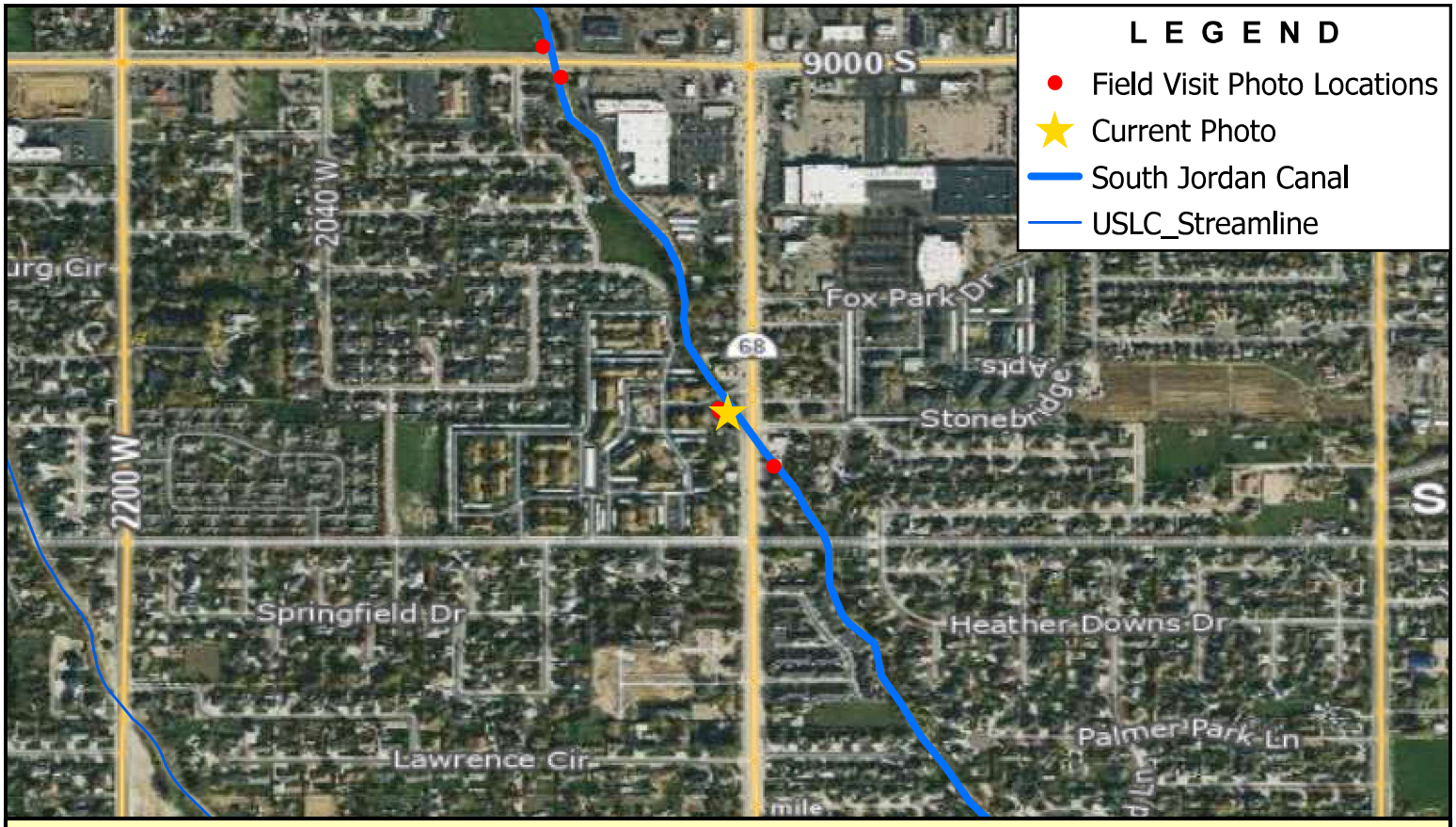
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 157

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Redwood Rd. Crossing at 9300 South

BOWEN COLLINS & ASSOCIATES

S Redwood Rd / W Brigadoon Park. Dr.

SALT LAKE COUNTY

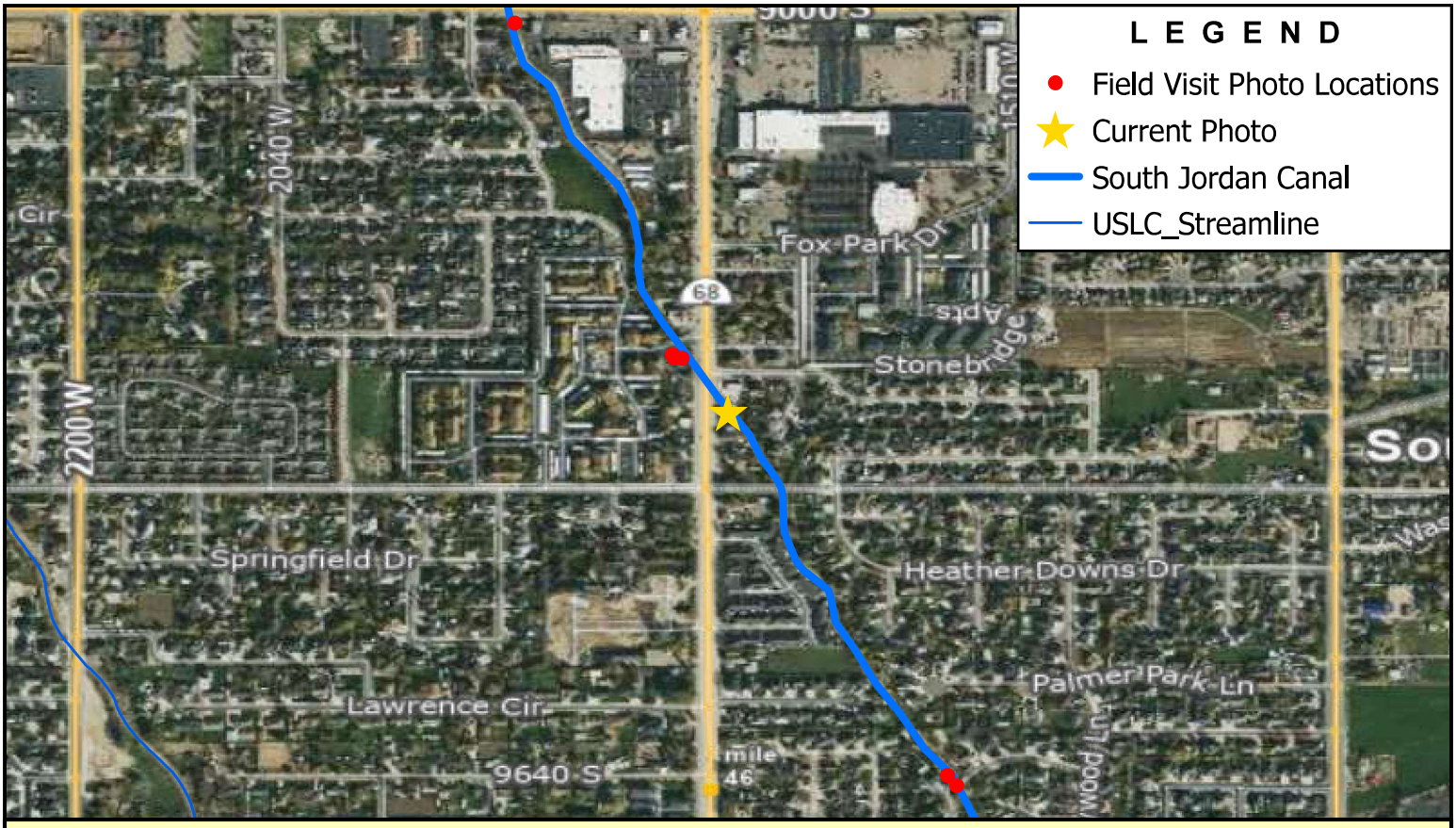
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 158

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Redwood Rd. Crossing at 9300 South

BOWEN COLLINS & ASSOCIATES

S Redwood Rd / W Brigadoon Park. Dr.

SALT LAKE COUNTY

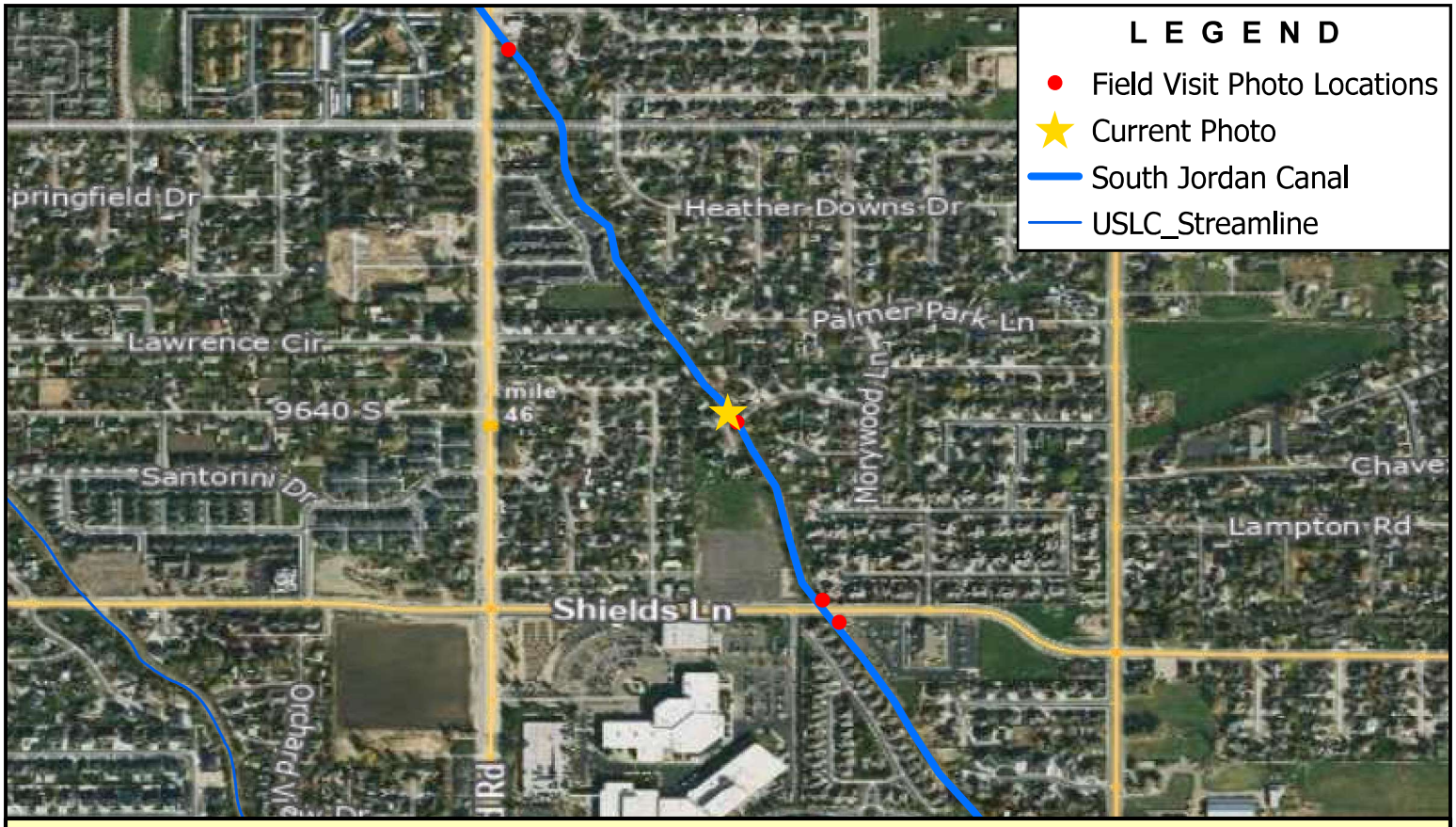
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 159

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Kodiak Creek Ct. Crossing

BOWEN COLLINS & ASSOCIATES

W Kodiak Creek Ct / 9635 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 160

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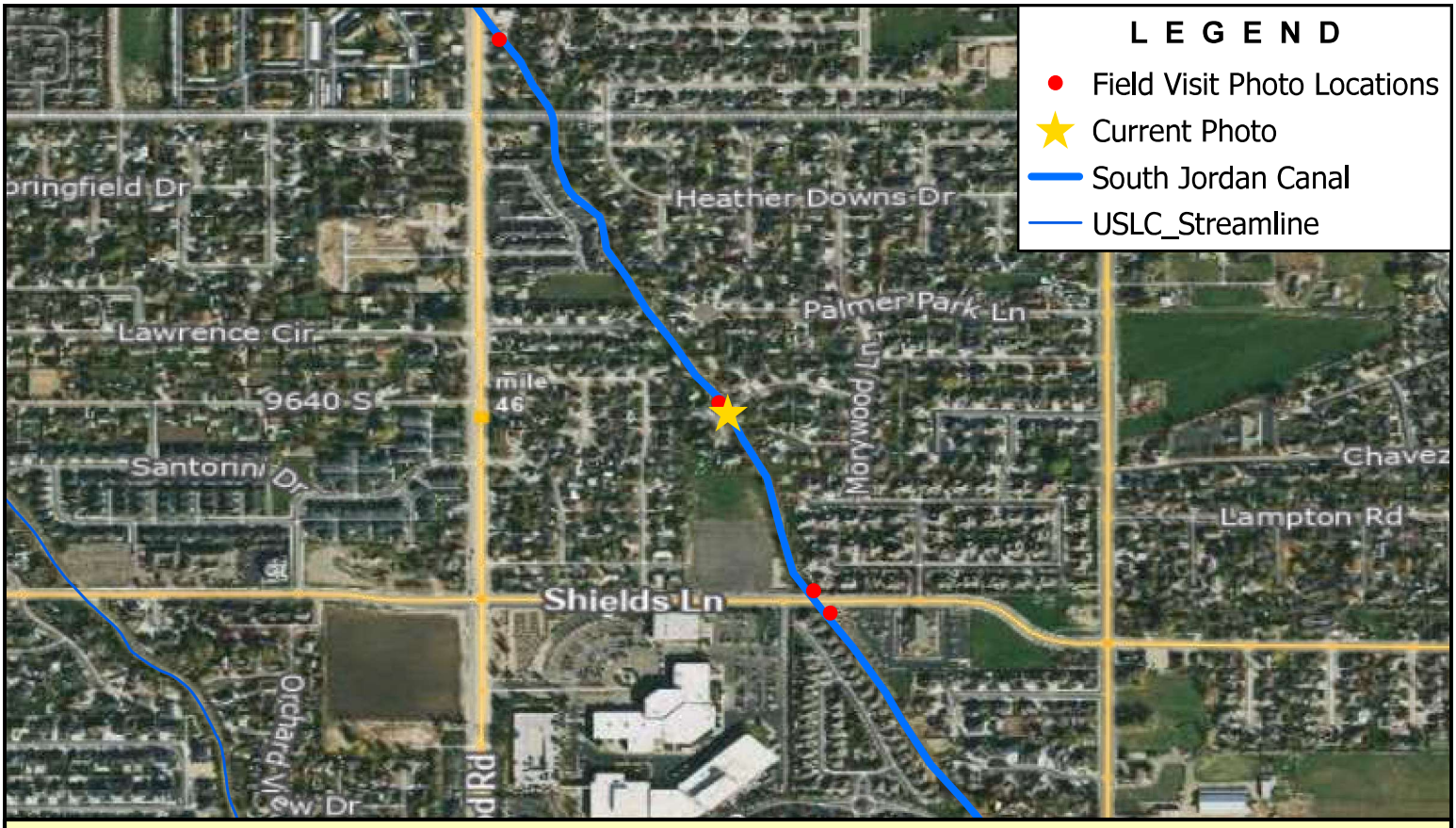

Note: Upstream Side of Kodiak Creek Ct. Crossing

BOWEN COLLINS & ASSOCIATES

W Kodiak Creek Ct / 9635 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 161

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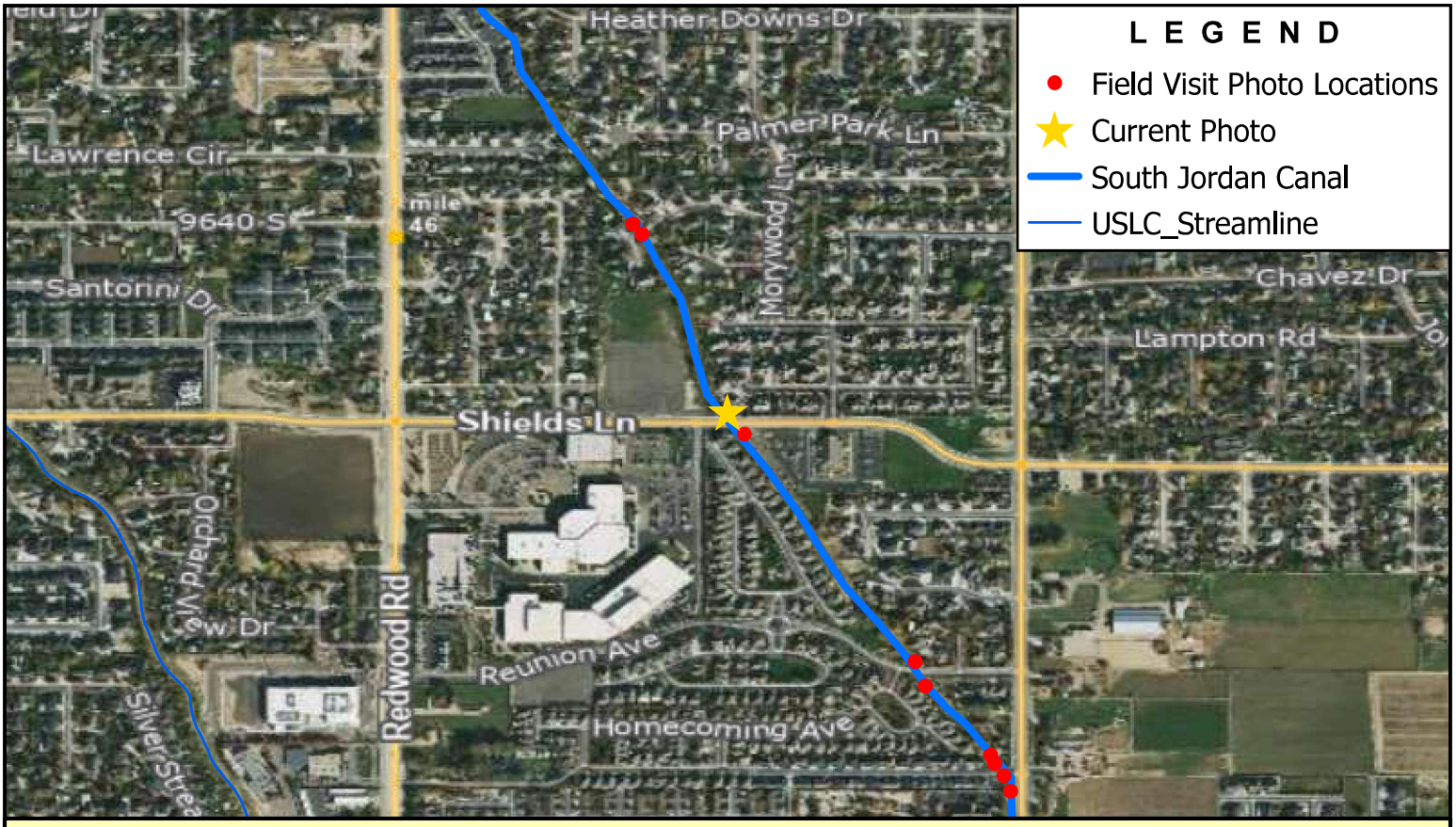


Note: Downstream Side of 9800 South Crossing

BOWEN COLLINS & ASSOCIATES

W 9800 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 162

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 9800 South Crossing

BOWEN COLLINS & ASSOCIATES

W 9800 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 163

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side of Reunion Avenue Crossing

BOWEN COLLINS & ASSOCIATES

W Reunion Avenue/ 10000 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 164

Note: Upstream Side of Reunion Avenue Crossing

BOWEN COLLINS & ASSOCIATES

W Reunion Avenue/ 10000 S

SALT LAKE COUNTY

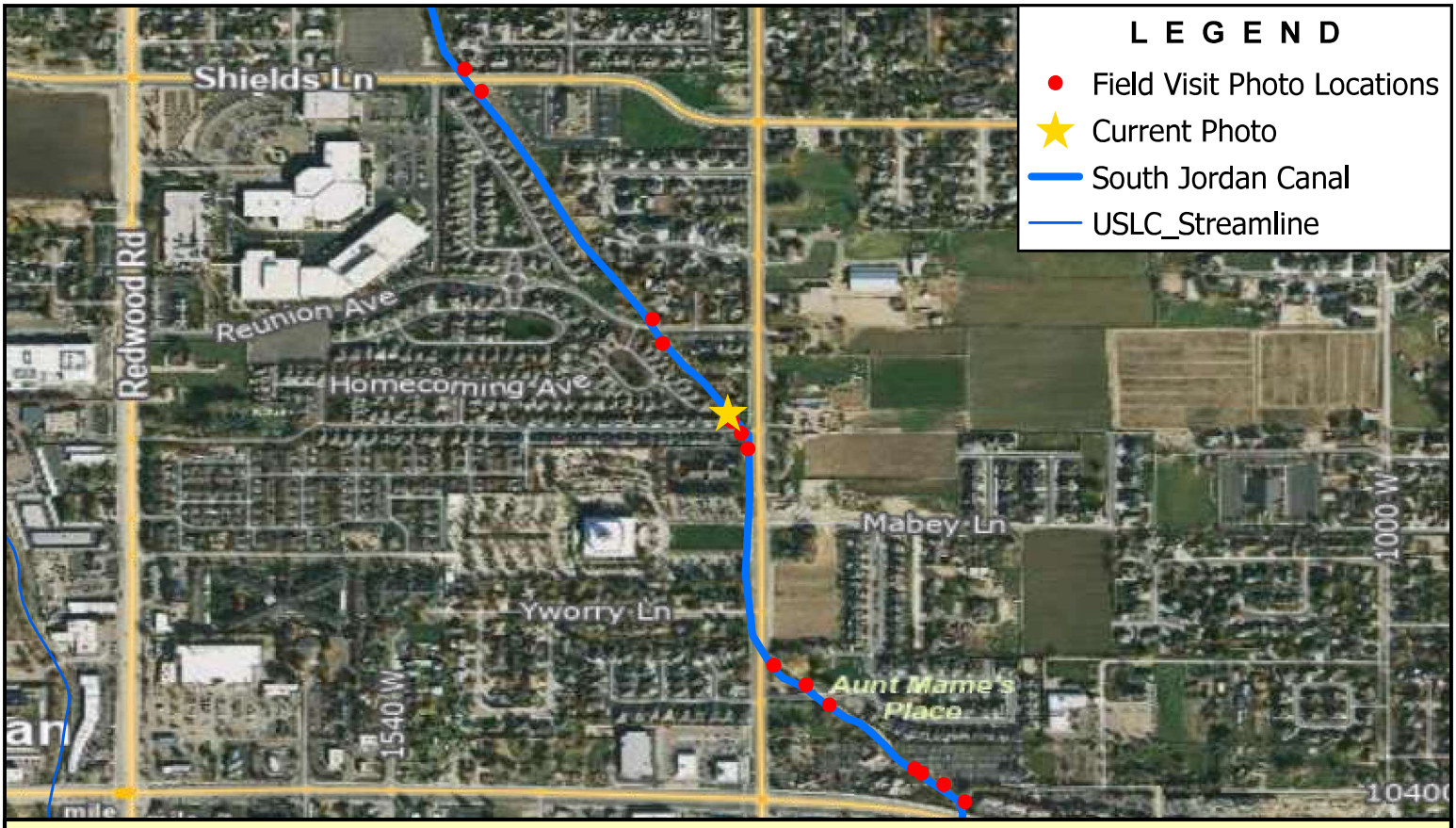
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 165

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Channel Downstream of Private Wood Bridge Near 10100 South

BOWEN COLLINS & ASSOCIATES

Priavte Wood Bridge

SALT LAKE COUNTY

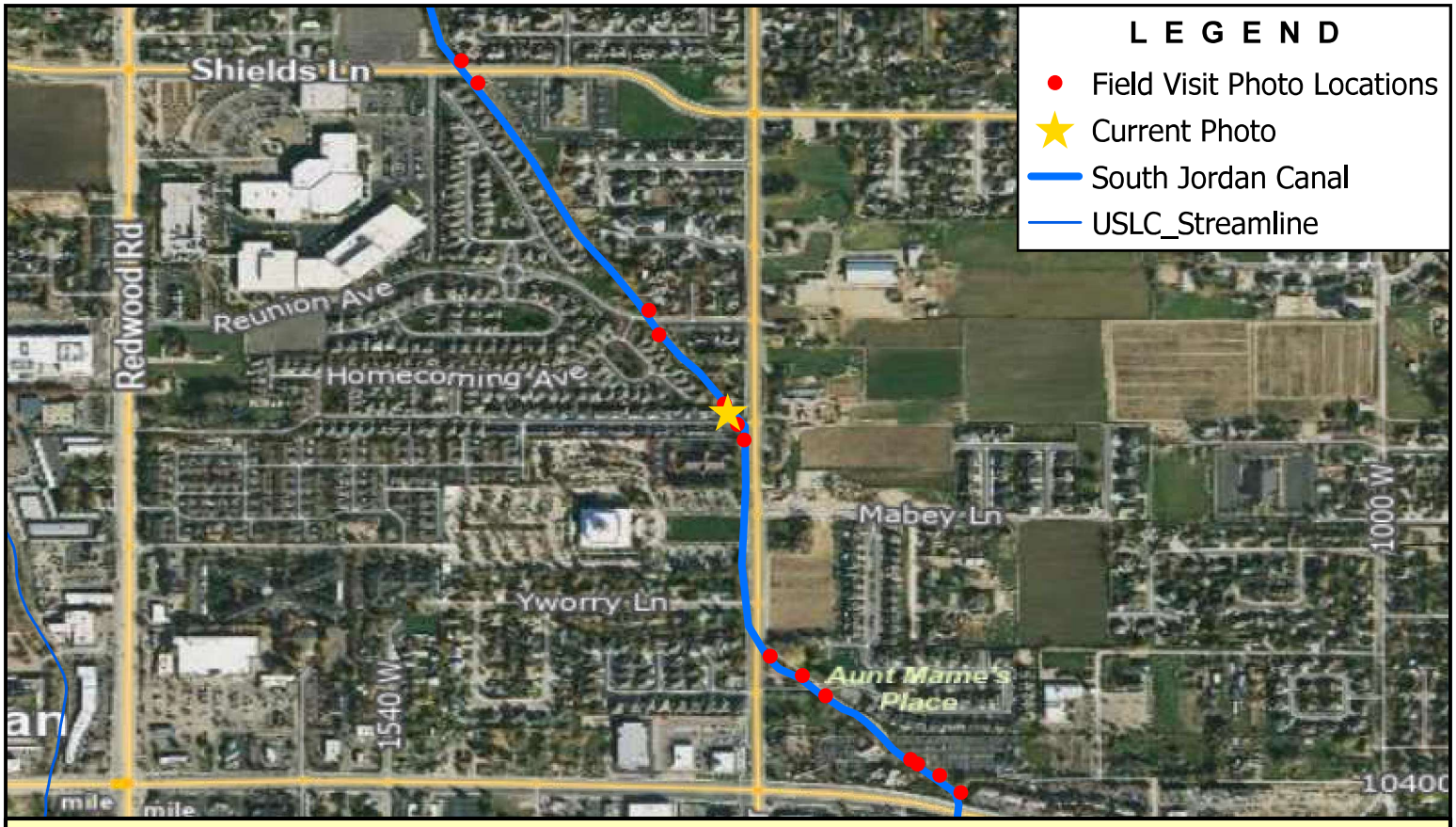
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 166

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Priavte Wood Bridge Near 10100 South

BOWEN COLLINS & ASSOCIATES

Priavte Wood Bridge

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

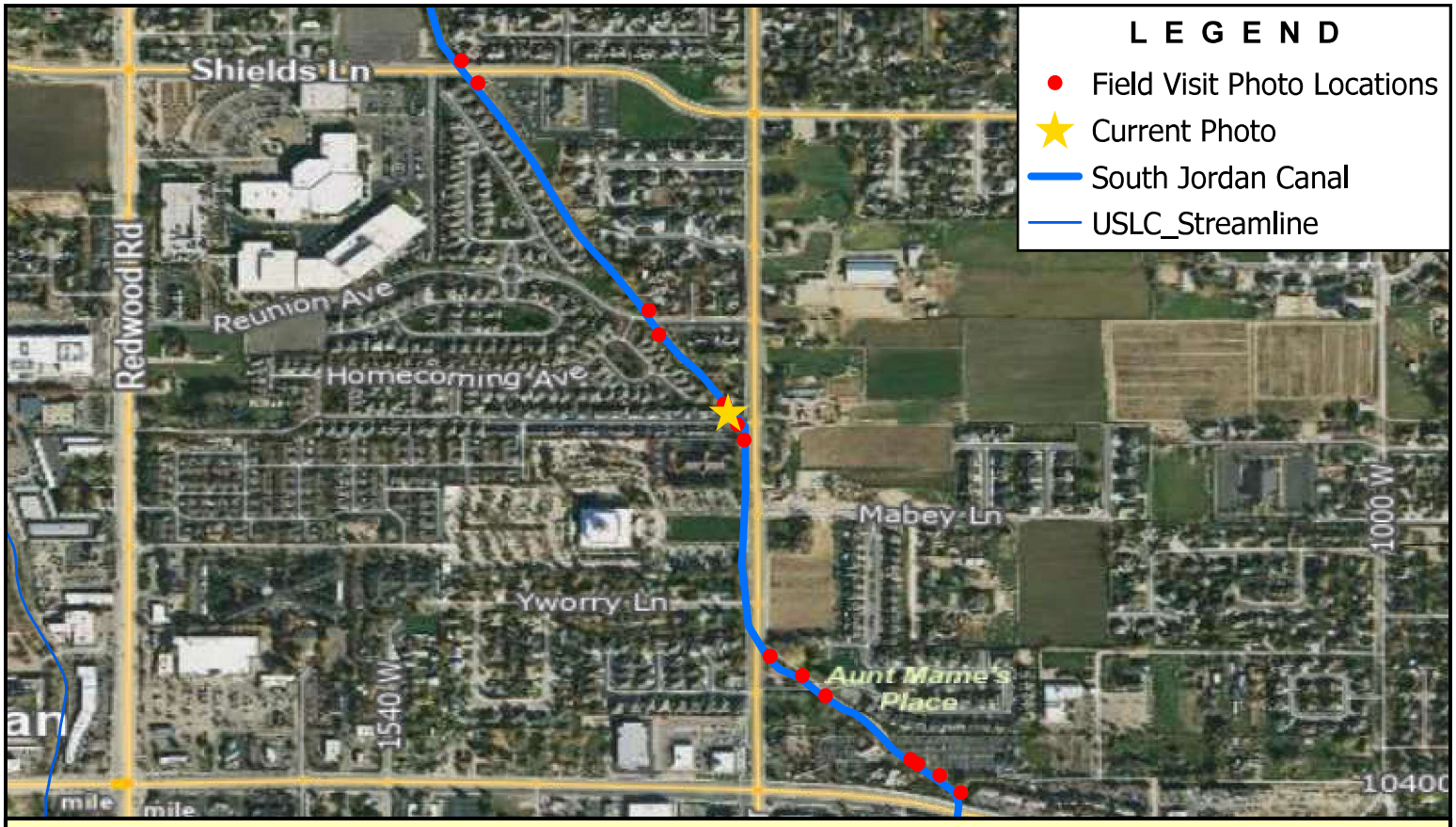
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 167

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Wheadon Glenn Cv. Crossing

BOWEN COLLINS & ASSOCIATES

W Wheadon Glenn Cv

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

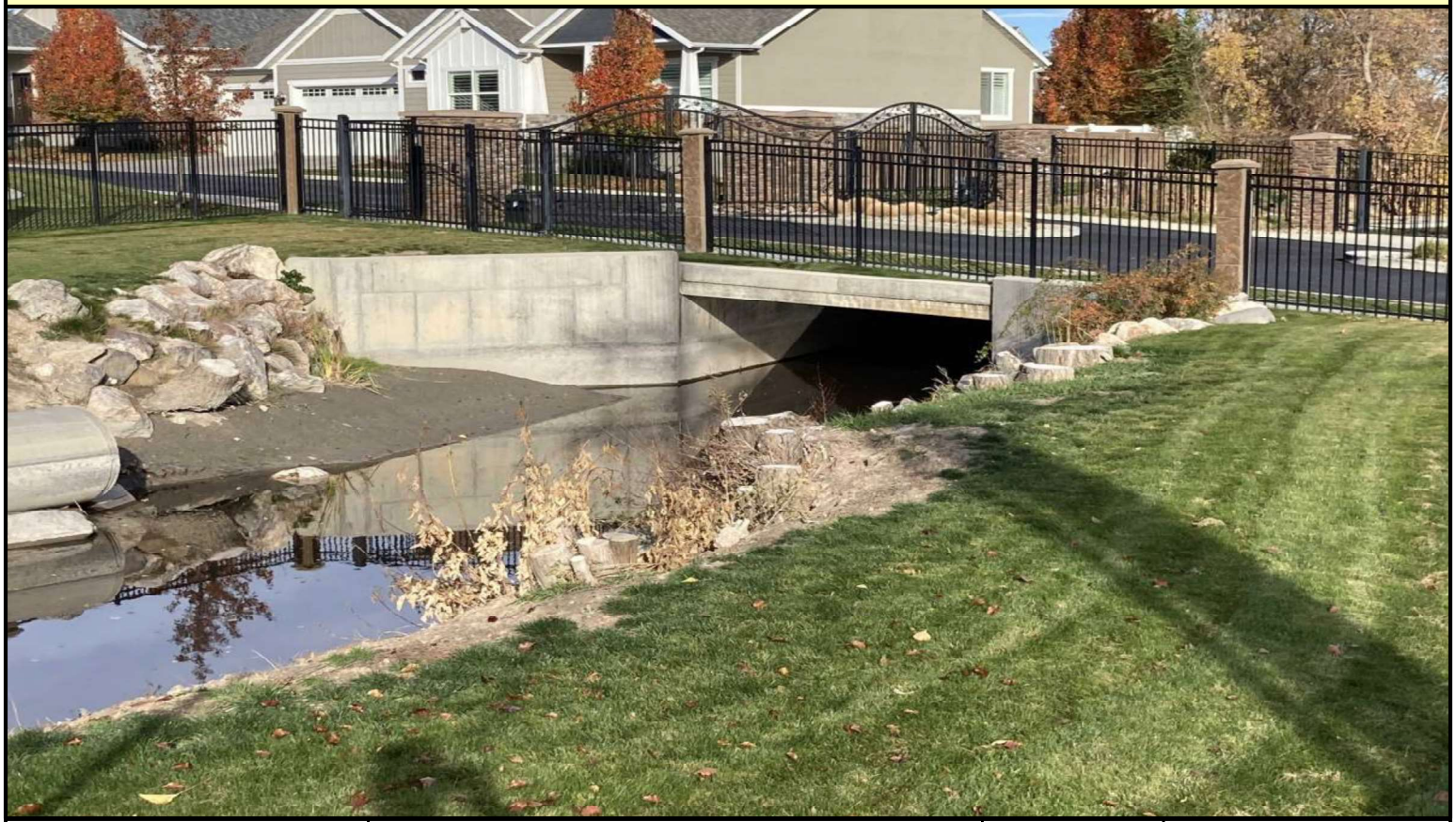
NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 168

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Wheadon Glenn Cv. Crossing



BOWEN COLLINS & ASSOCIATES

W Wheadon Glenn Cv

SALT LAKE COUNTY

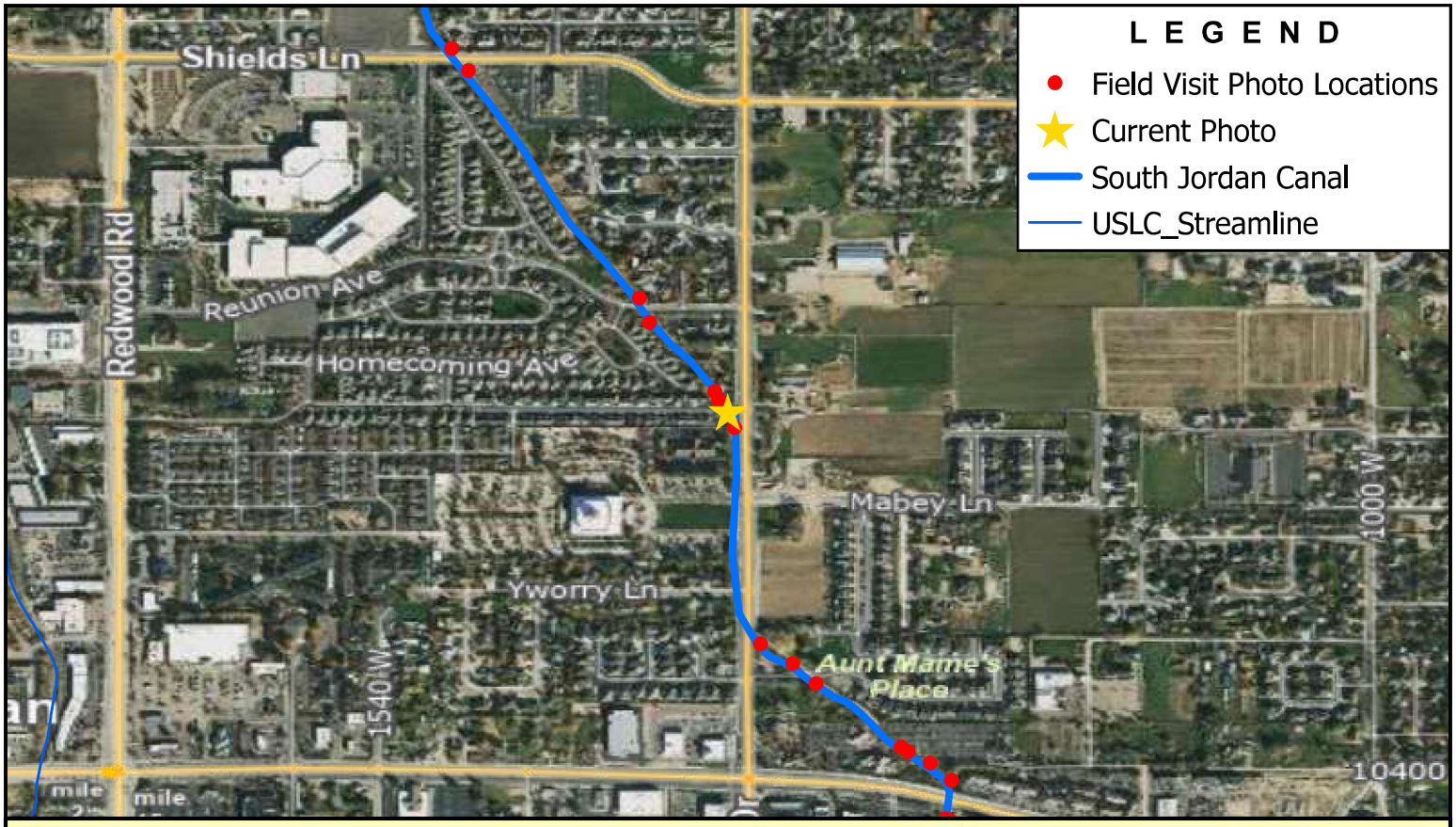
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 169

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream End of Long 1300 West Culvert

BOWEN COLLINS & ASSOCIATES

S 1300 W/ PIPE

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 170

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream End of Long 1300 West Culvert

BOWEN COLLINS & ASSOCIATES

S 1300 W/ PIPE

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 171

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream Side Holt Farm Lane Crossing

BOWEN COLLINS & ASSOCIATES

W Holt Farm Lane

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 172

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side Holt Farm Lane Crossing

BOWEN COLLINS & ASSOCIATES

W Holt Farm Lane

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

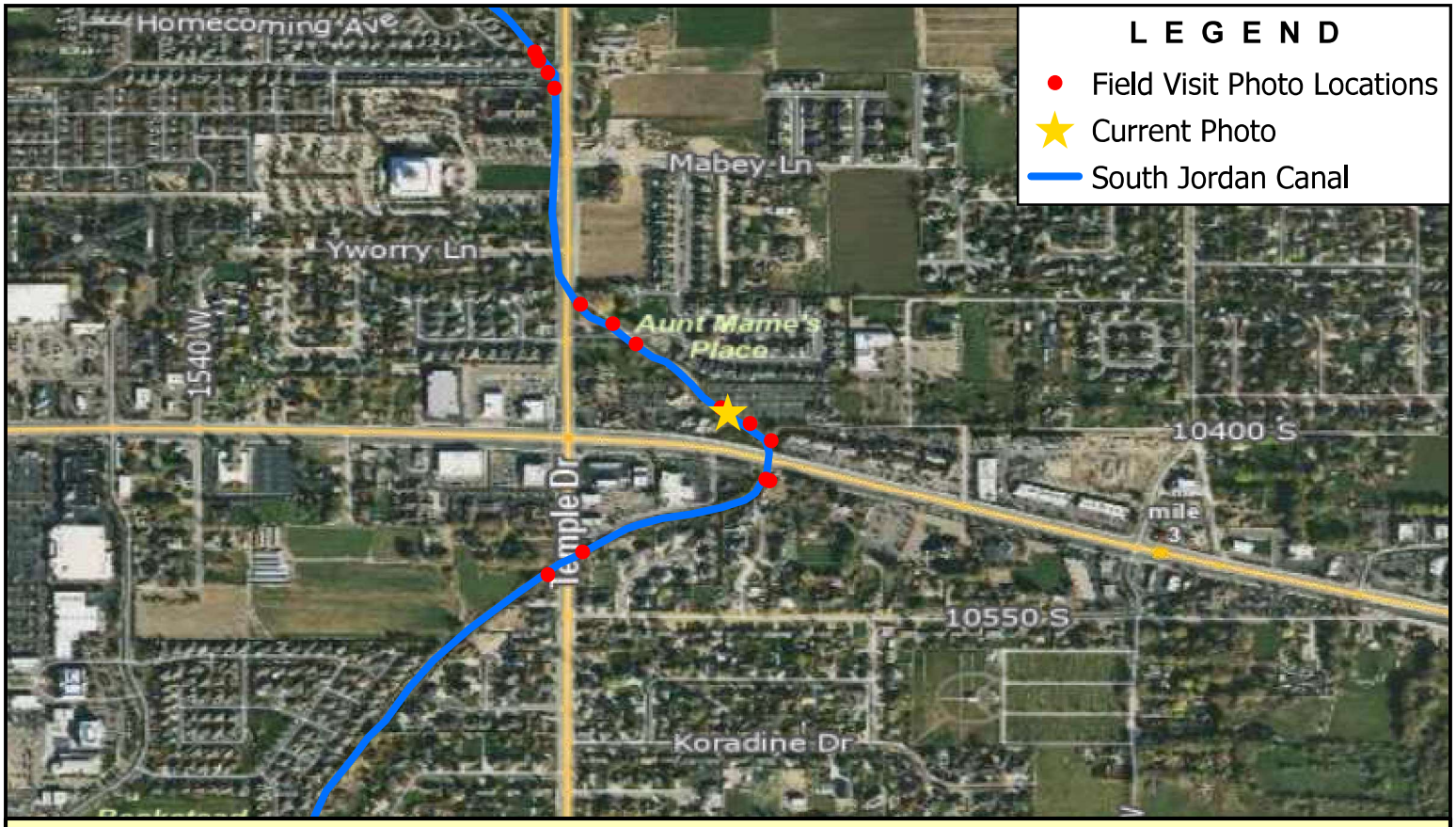
PHOTOGRAPH NO. 173

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

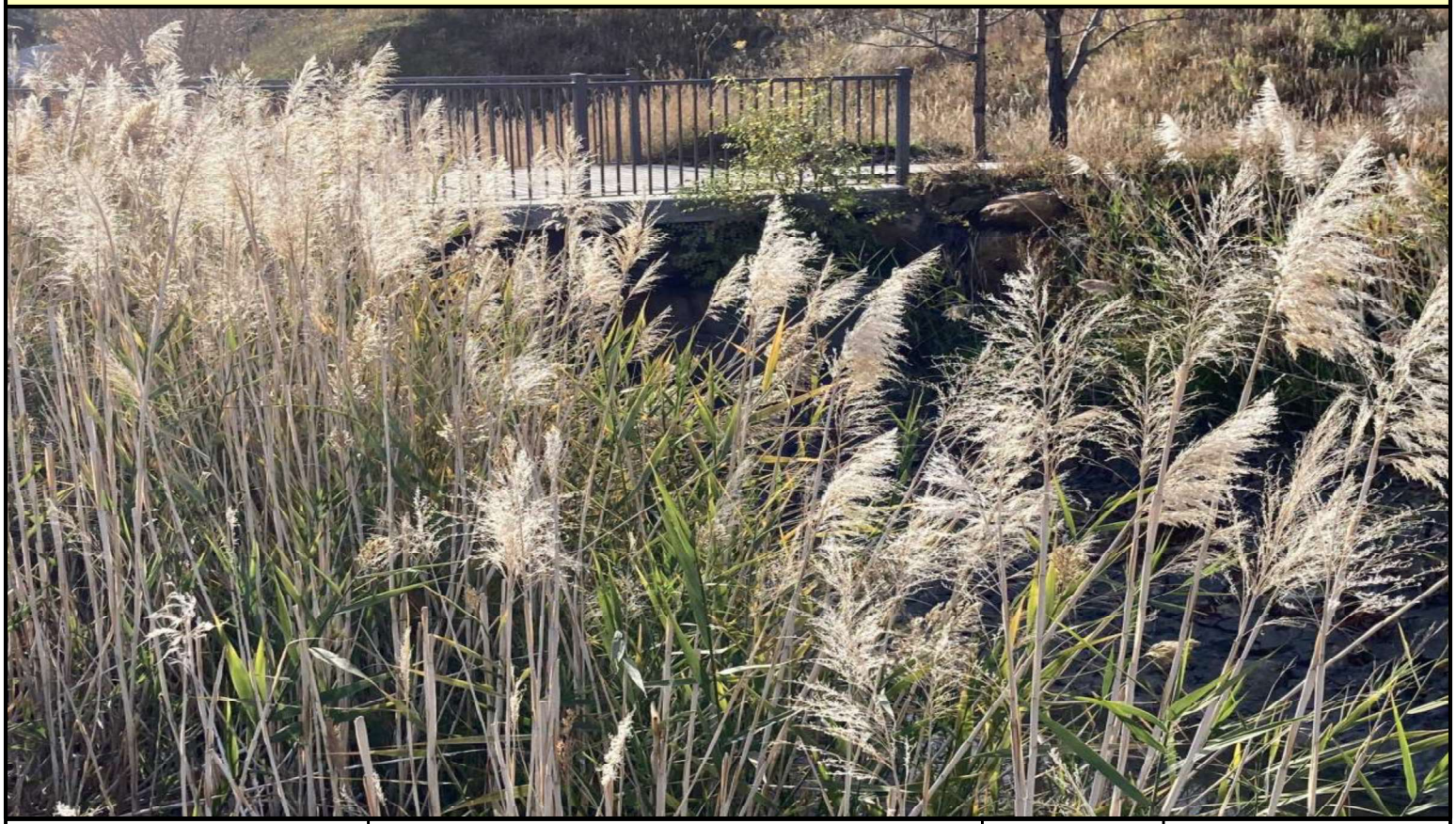
Note: Upstream Side of 12990 West Crossing

BOWEN COLLINS & ASSOCIATES	1299 w	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 174

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Pedestrian Bridge Near 10400 South



BOWEN COLLINS & ASSOCIATES

by 10400 s

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 175

Note: Upstream Side of Pedestrian Bridge Near 10400 South

BOWEN COLLINS & ASSOCIATES

by 10400 s

SALT LAKE COUNTY

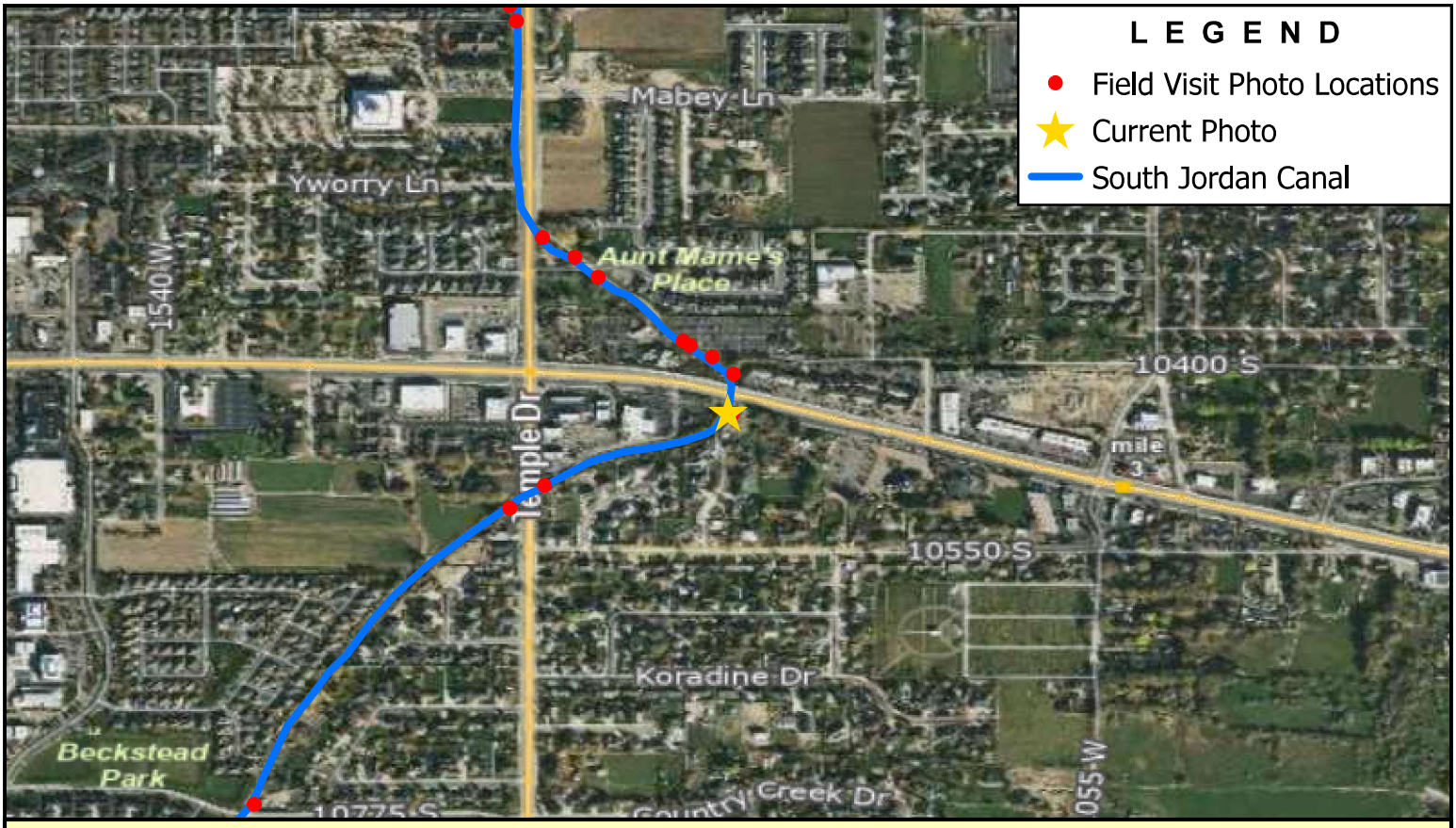
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 176

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side South Jordan Parkway Crossing

BOWEN COLLINS & ASSOCIATES

W South Jordan Parkway

SALT LAKE COUNTY

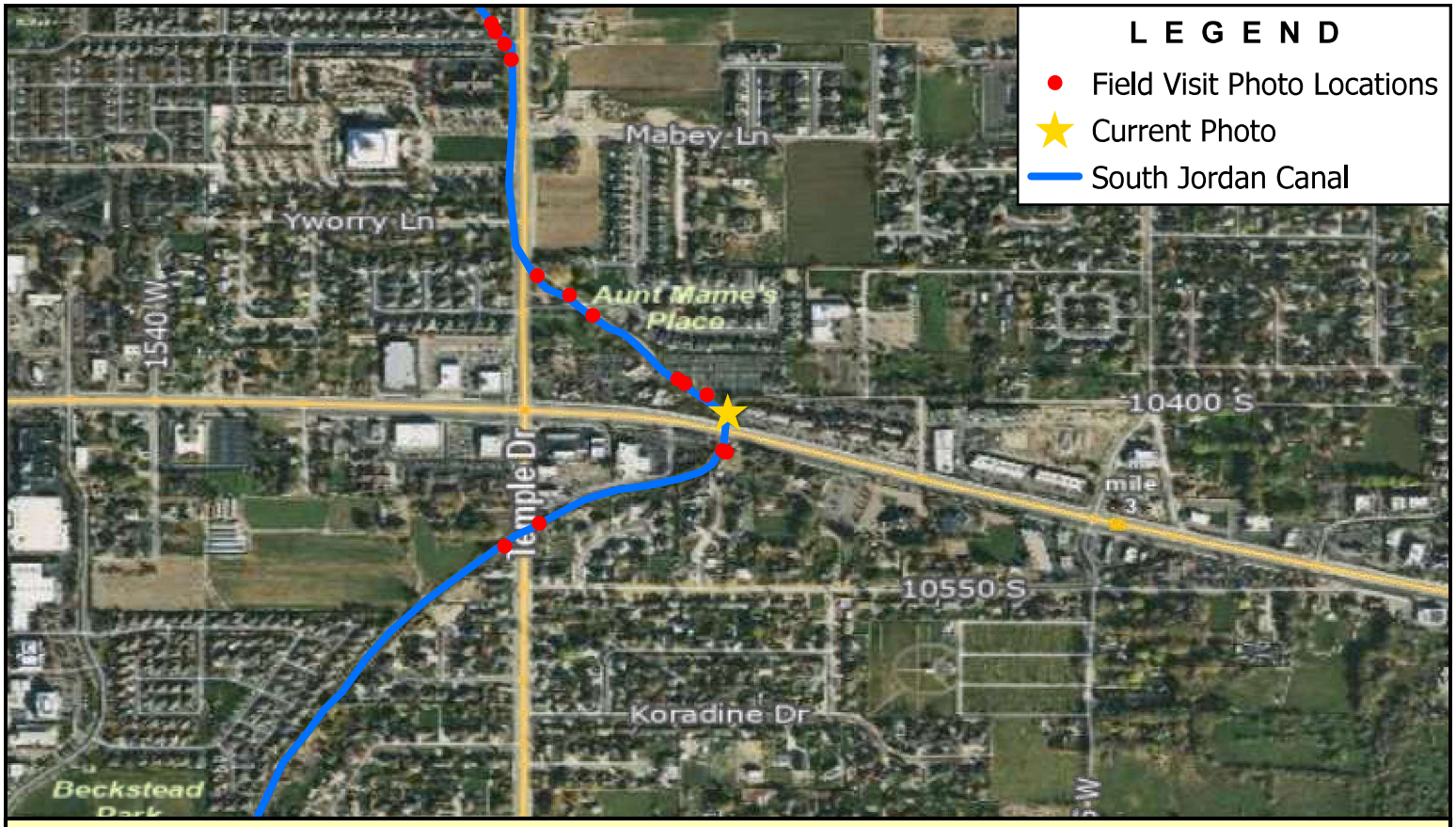
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 177

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side South Jordan Parkway Crossing

BOWEN COLLINS & ASSOCIATES

W South Jordan Parkway

SALT LAKE COUNTY

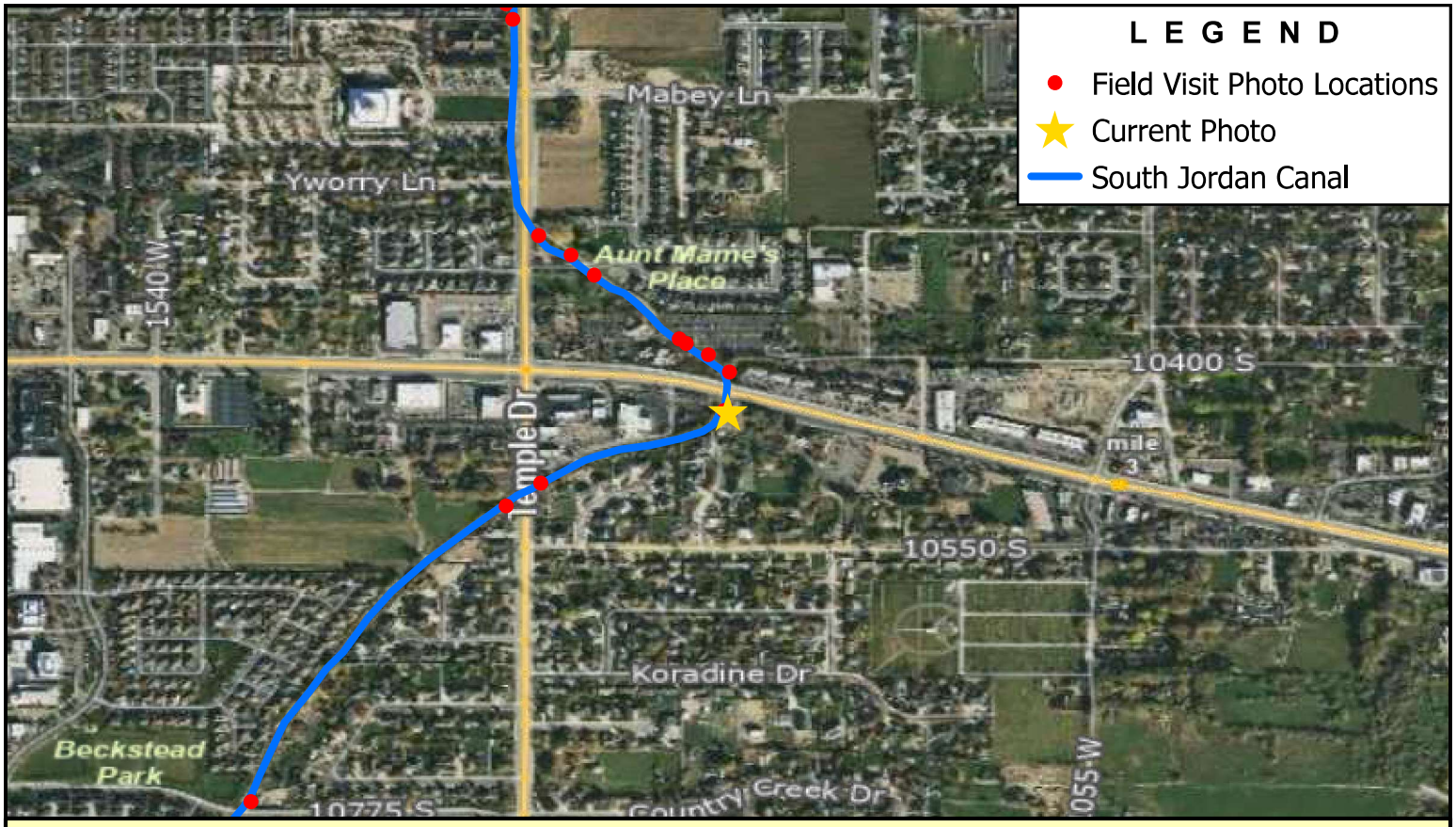
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 178

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: 10400 South Dumpout

BOWEN COLLINS & ASSOCIATES

10400 South Dumpout

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 179

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Downstream End of 1300 West Crossing Near 10600 South

BOWEN COLLINS & ASSOCIATES

S 1300 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 180

Note: Upstream End of 1300 West Crossing Near 10600 South

BOWEN COLLINS & ASSOCIATES

S 1300 W

SALT LAKE COUNTY

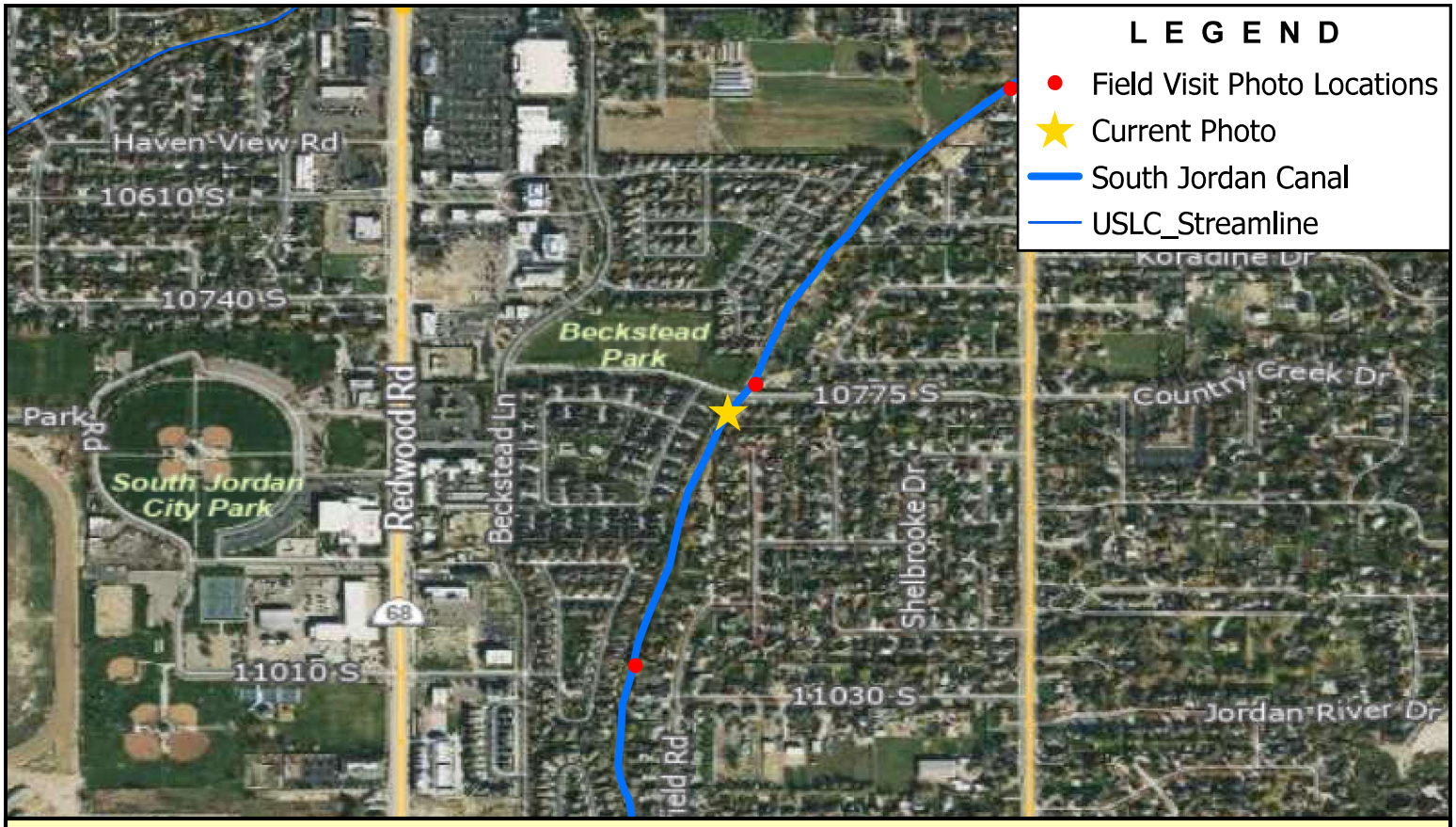
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 181

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream End of 10775 South Crossing

BOWEN COLLINS & ASSOCIATES

W 10775 S

SALT LAKE COUNTY

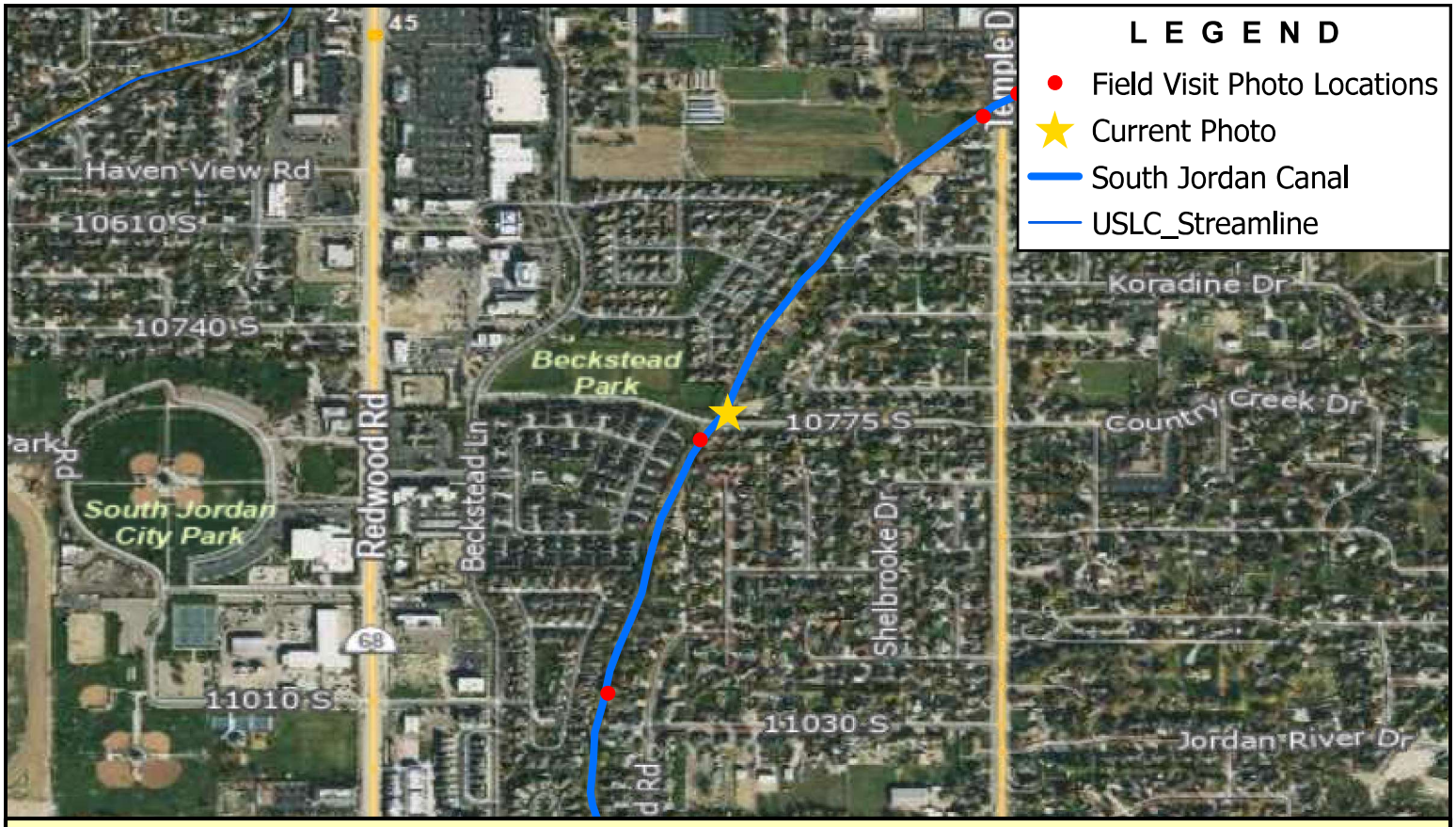
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 182

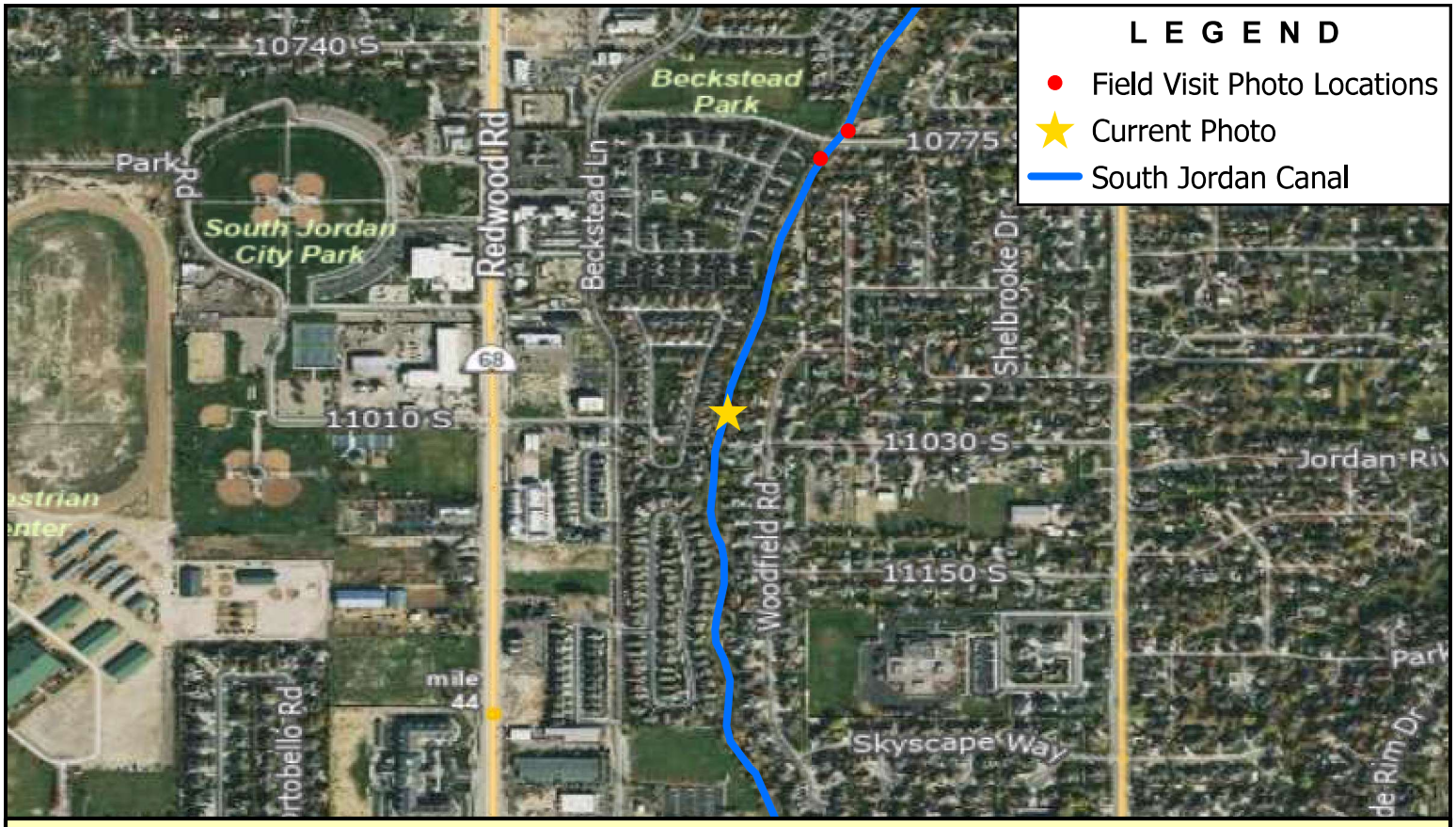
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream End of 10775 South Crossing

BOWEN COLLINS & ASSOCIATES	W 10775 S	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 183

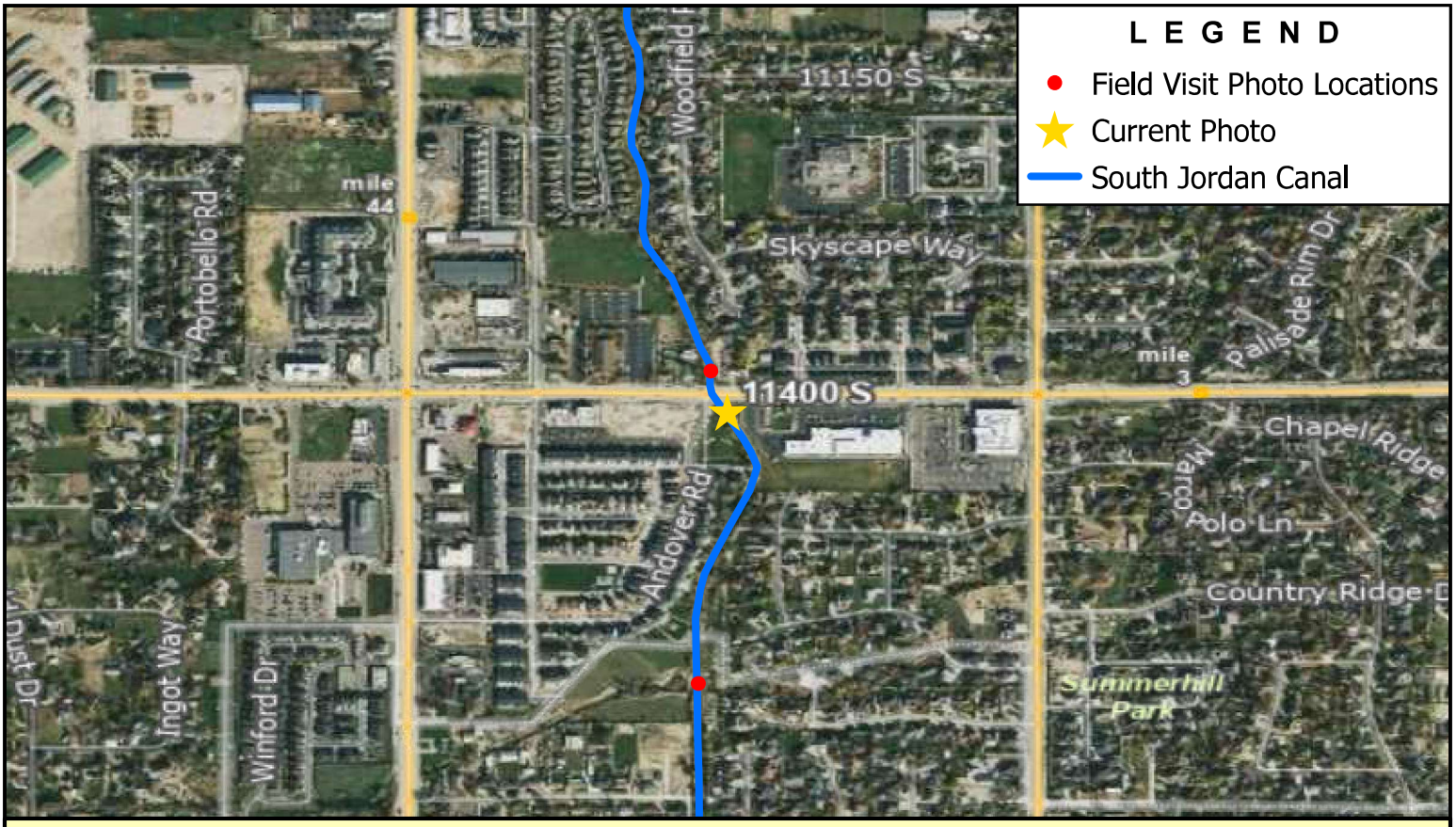
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Foot Bridge Near 11020 South

BOWEN COLLINS & ASSOCIATES	Foot Bridge	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 184

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream End of 11400 South Crossing

BOWEN COLLINS & ASSOCIATES

w 11400 S

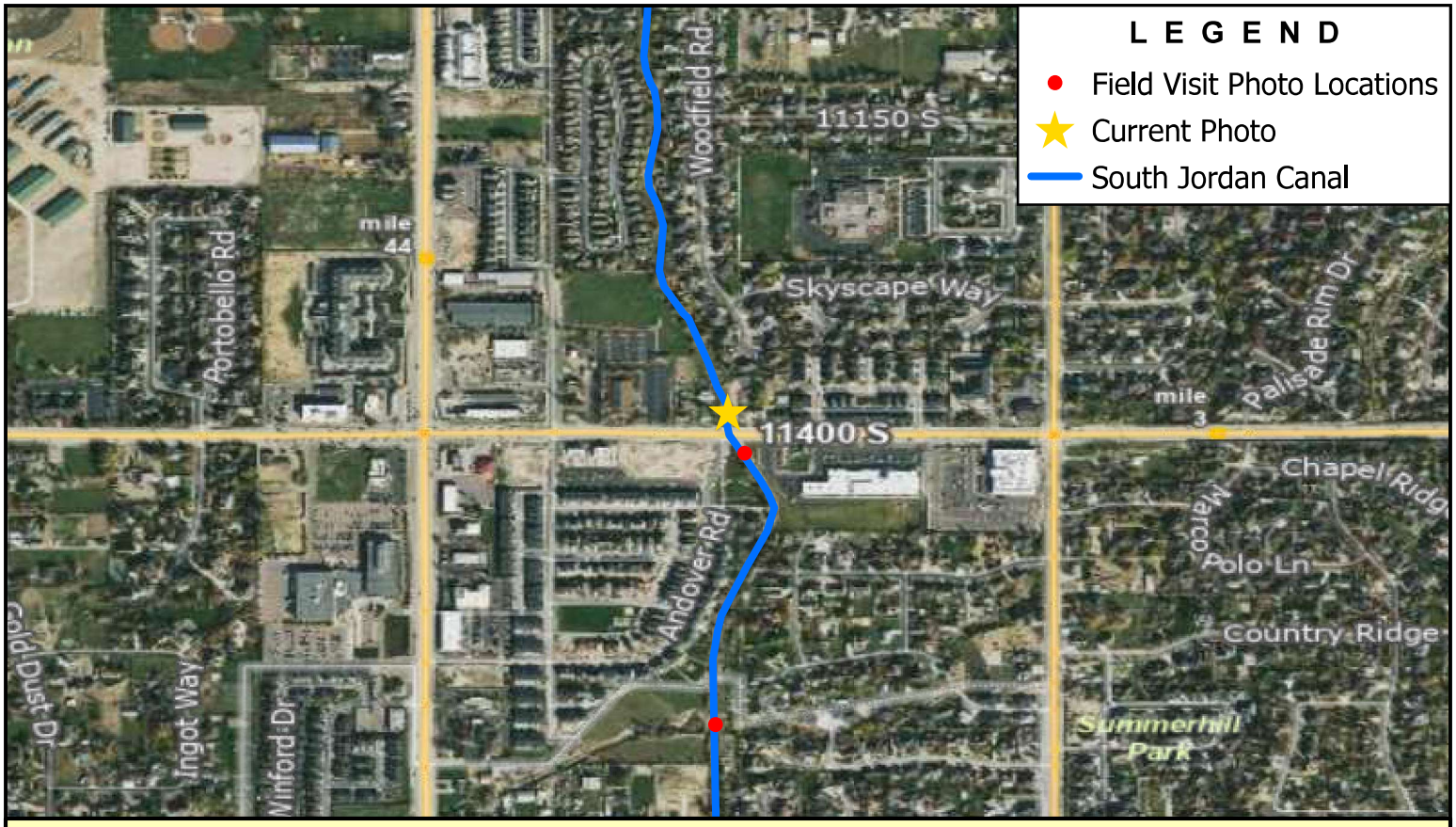
SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 185



Note: Upstream End of 11400 South Crossing

BOWEN COLLINS & ASSOCIATES

w 11400 S

SALT LAKE COUNTY

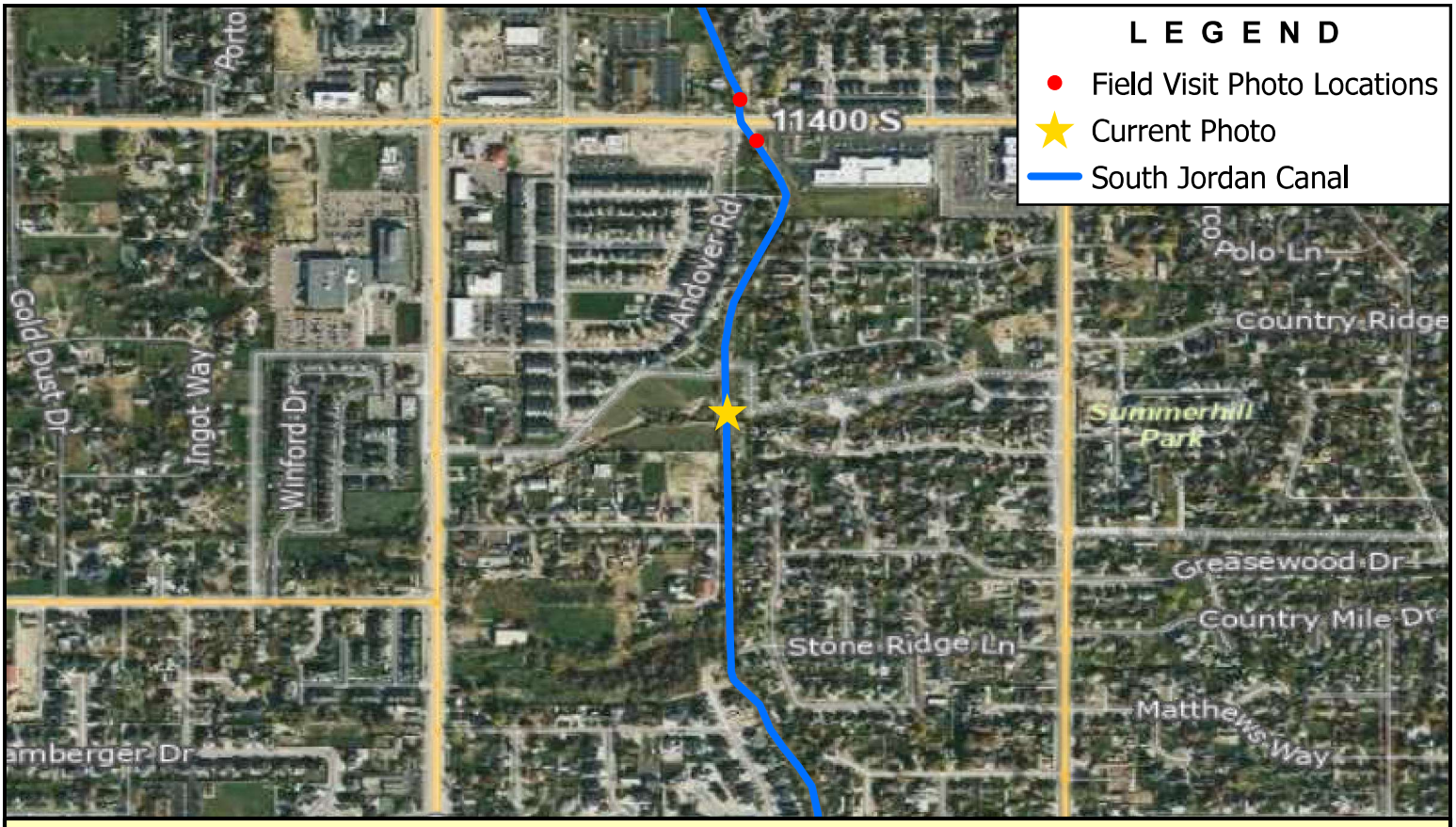
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 186

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Midas Creek Dumpout

BOWEN COLLINS & ASSOCIATES

Midas Creek Dumpout

SALT LAKE COUNTY

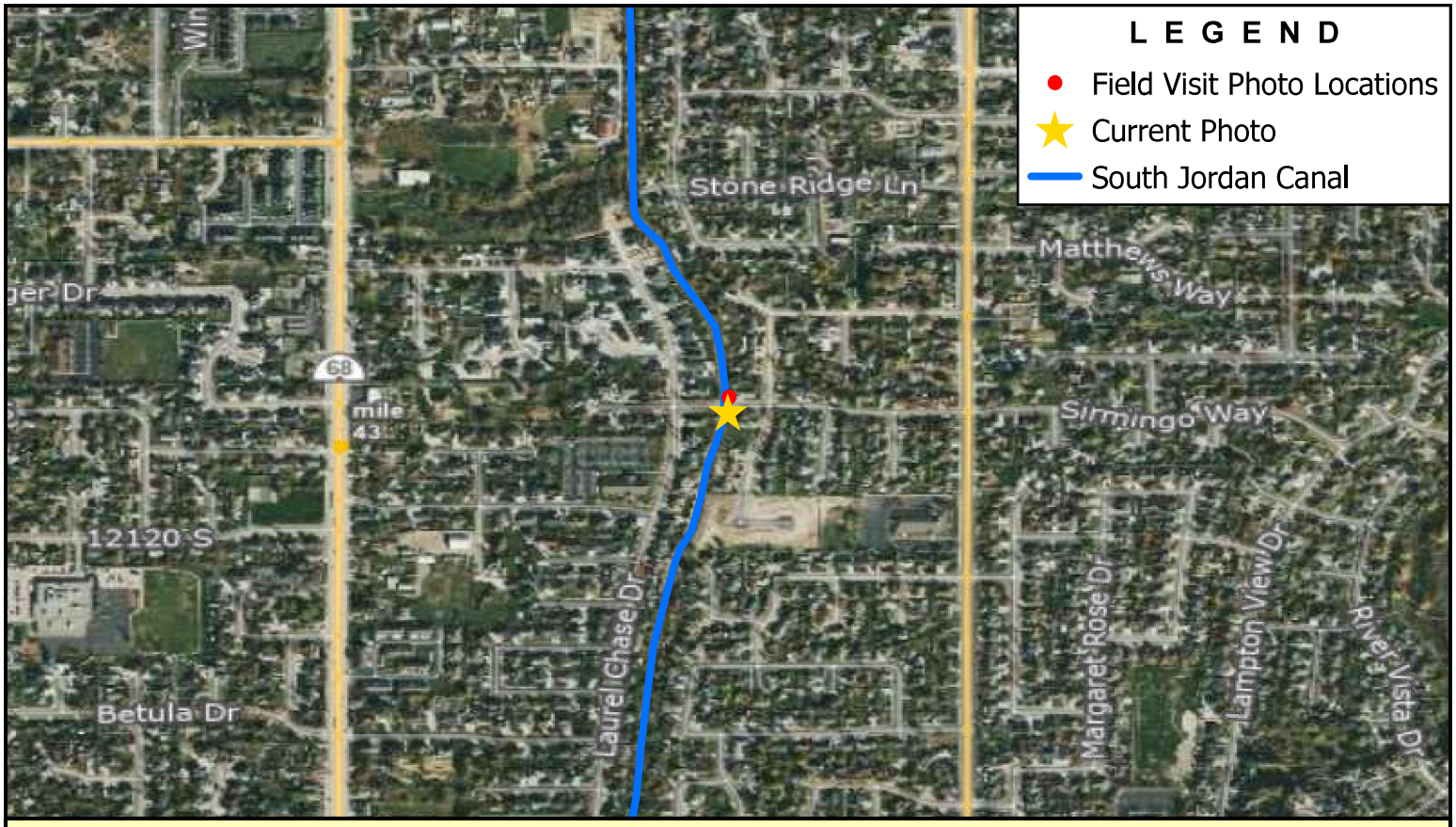
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 187

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream End of 12040 South Crossing

BOWEN COLLINS & ASSOCIATES

w 12040 s

SALT LAKE COUNTY

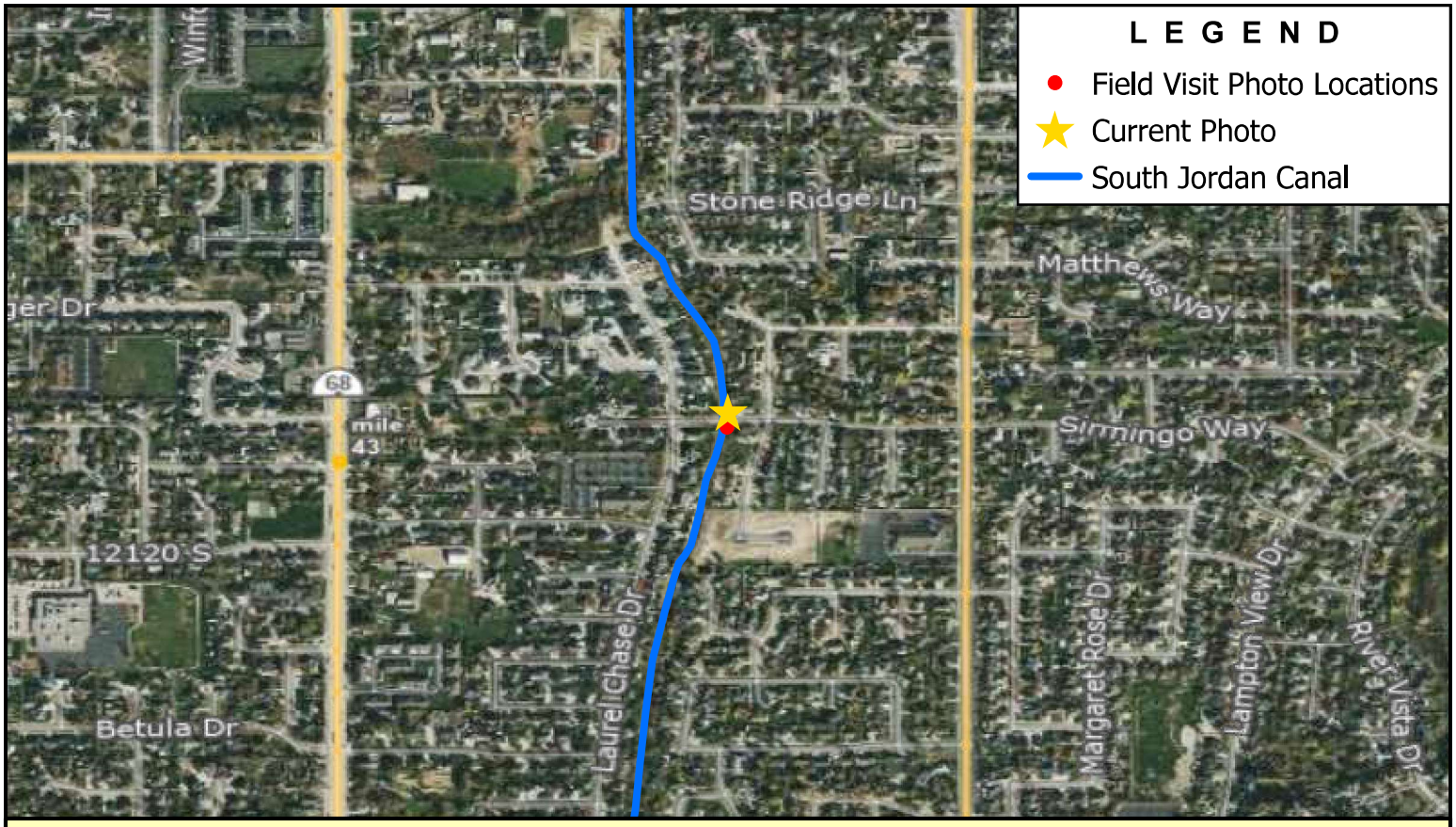
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 188

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream End of 12040 South Crossing

BOWEN COLLINS & ASSOCIATES

w 12040 s

SALT LAKE COUNTY

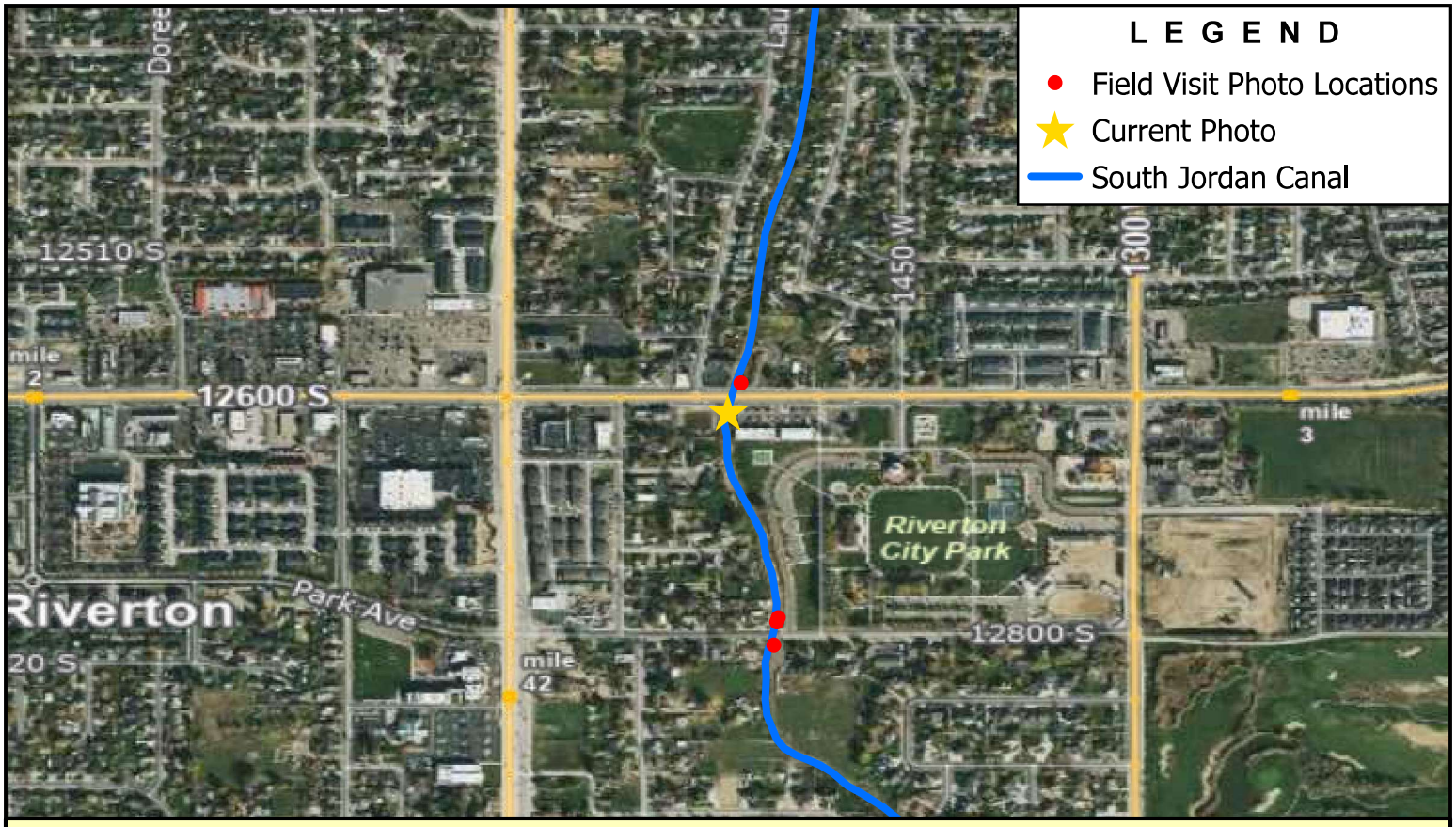
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 189

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream End of 12600 South Crossing

BOWEN COLLINS & ASSOCIATES

w 12600 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 190

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream End of 12600 South Crossing

BOWEN COLLINS & ASSOCIATES

w 12600 S

SALT LAKE COUNTY

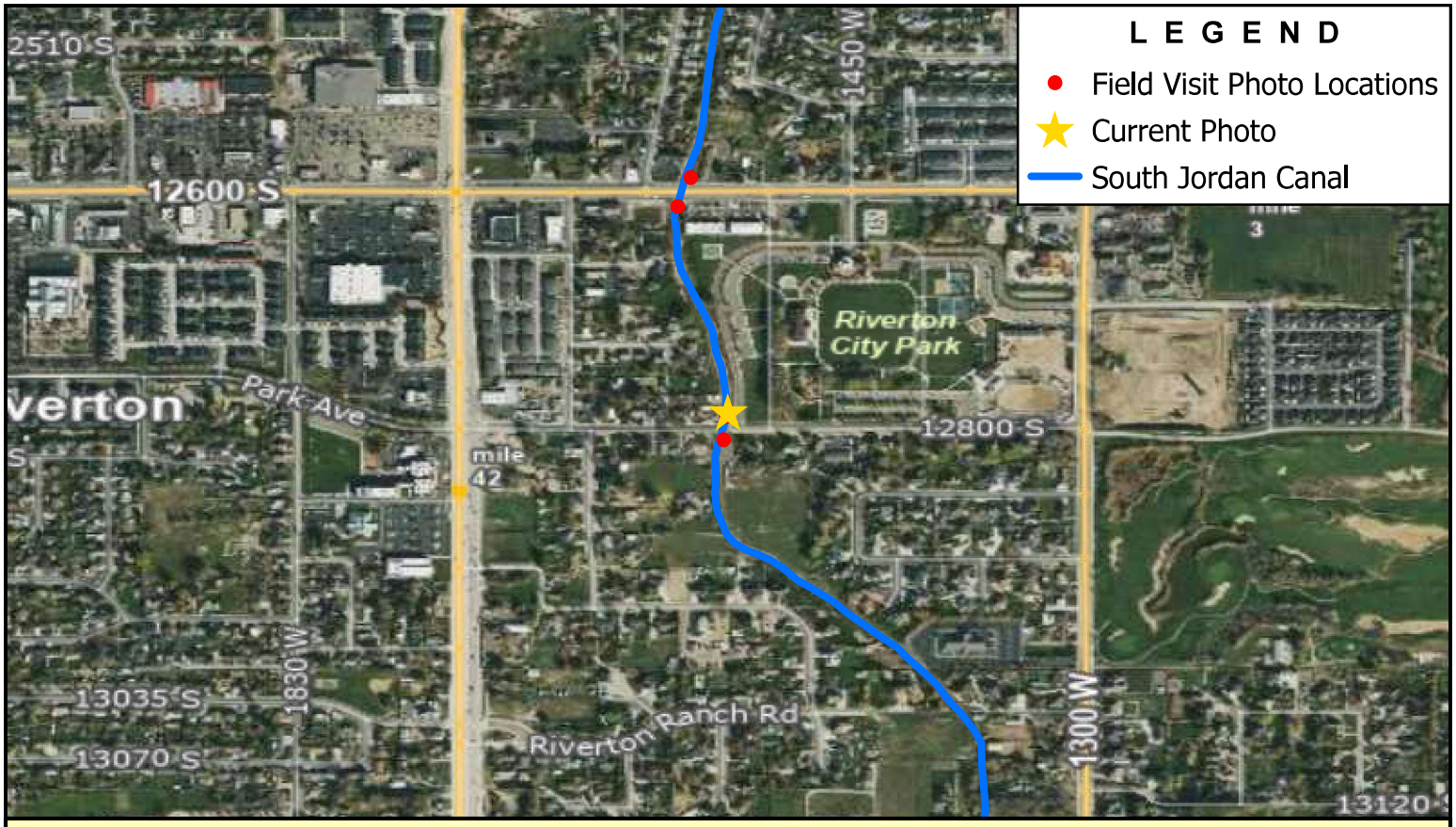
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 191

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Control Structure North of 12800 South

BOWEN COLLINS & ASSOCIATES

Control Structure

SALT LAKE COUNTY

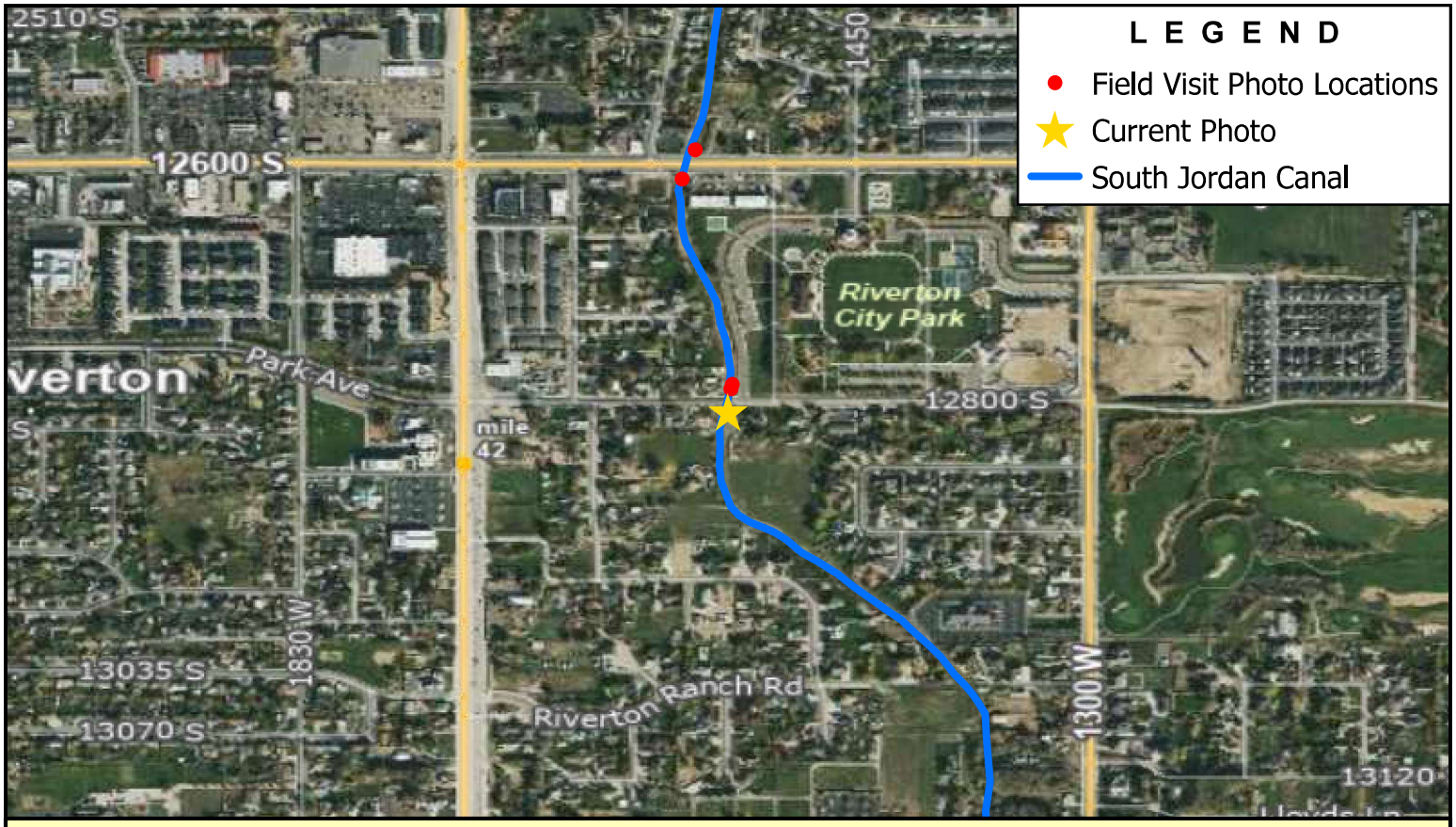
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 192

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream End of 12800 South Crossing

BOWEN COLLINS & ASSOCIATES

W 12800 S

SALT LAKE COUNTY

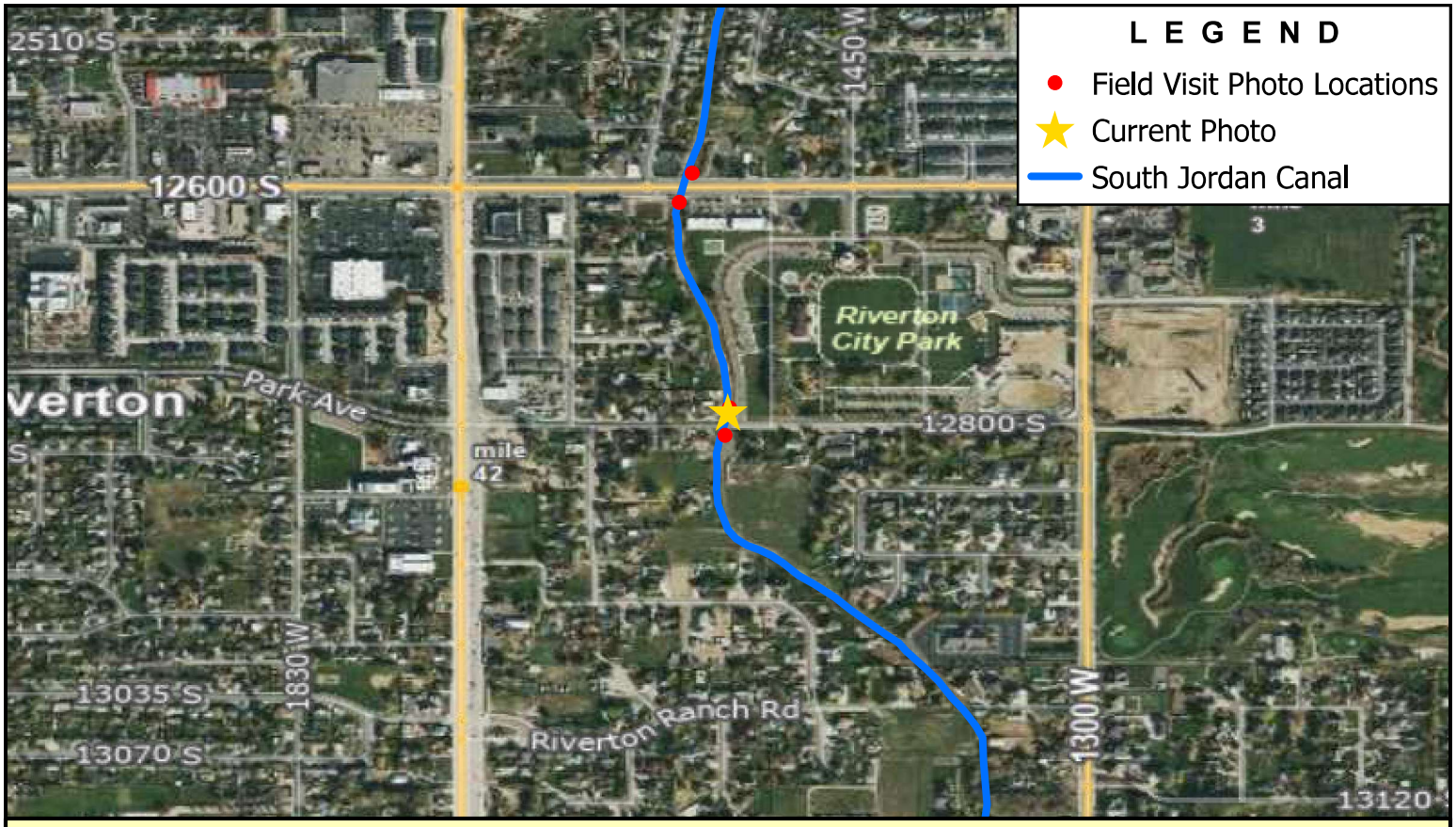
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 193

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream End of 12800 South Crossing

BOWEN COLLINS & ASSOCIATES

W 12800 S

SALT LAKE COUNTY

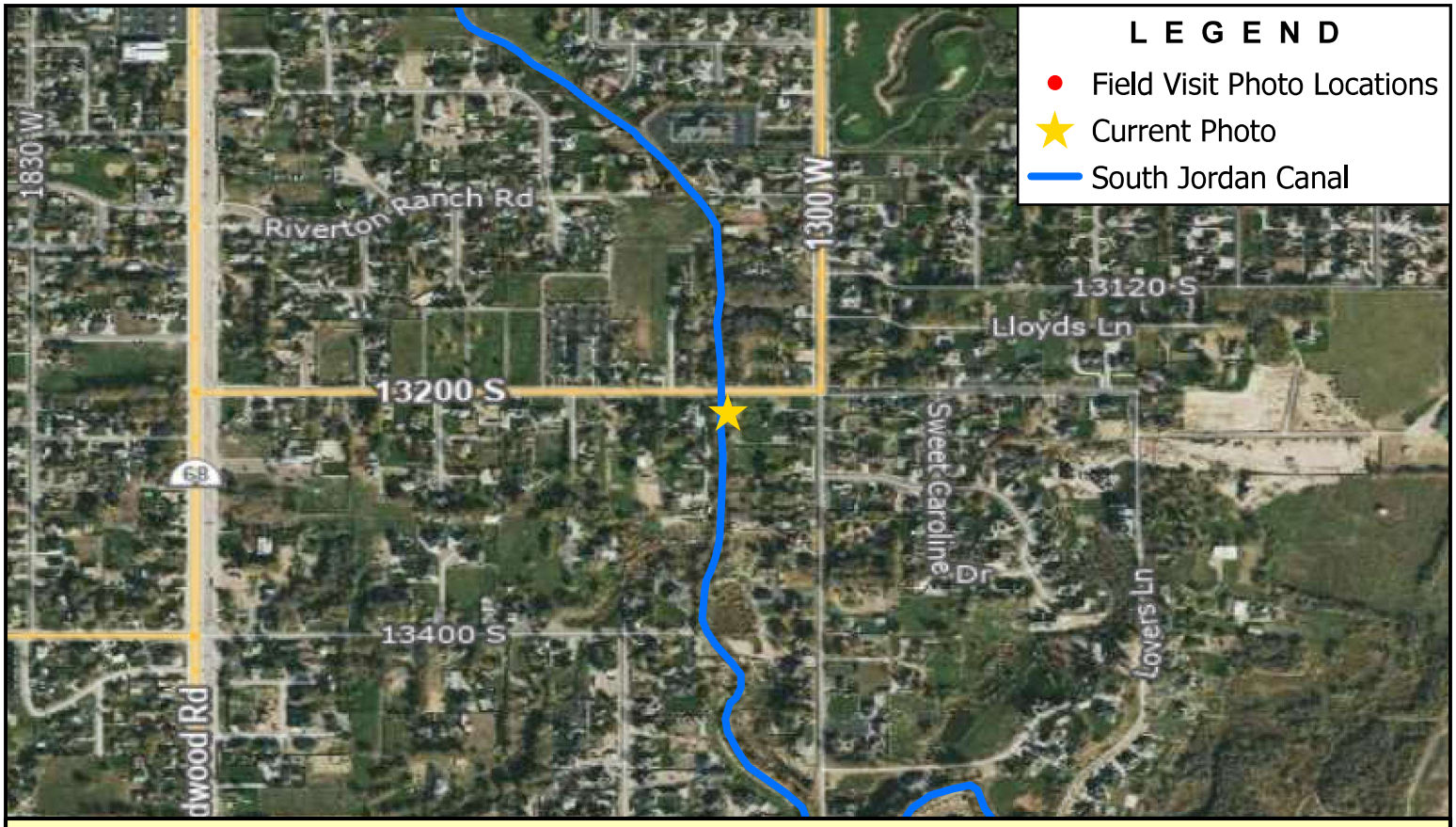
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 194

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream End of 13200 South Crossing

BOWEN COLLINS & ASSOCIATES

W 13200 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

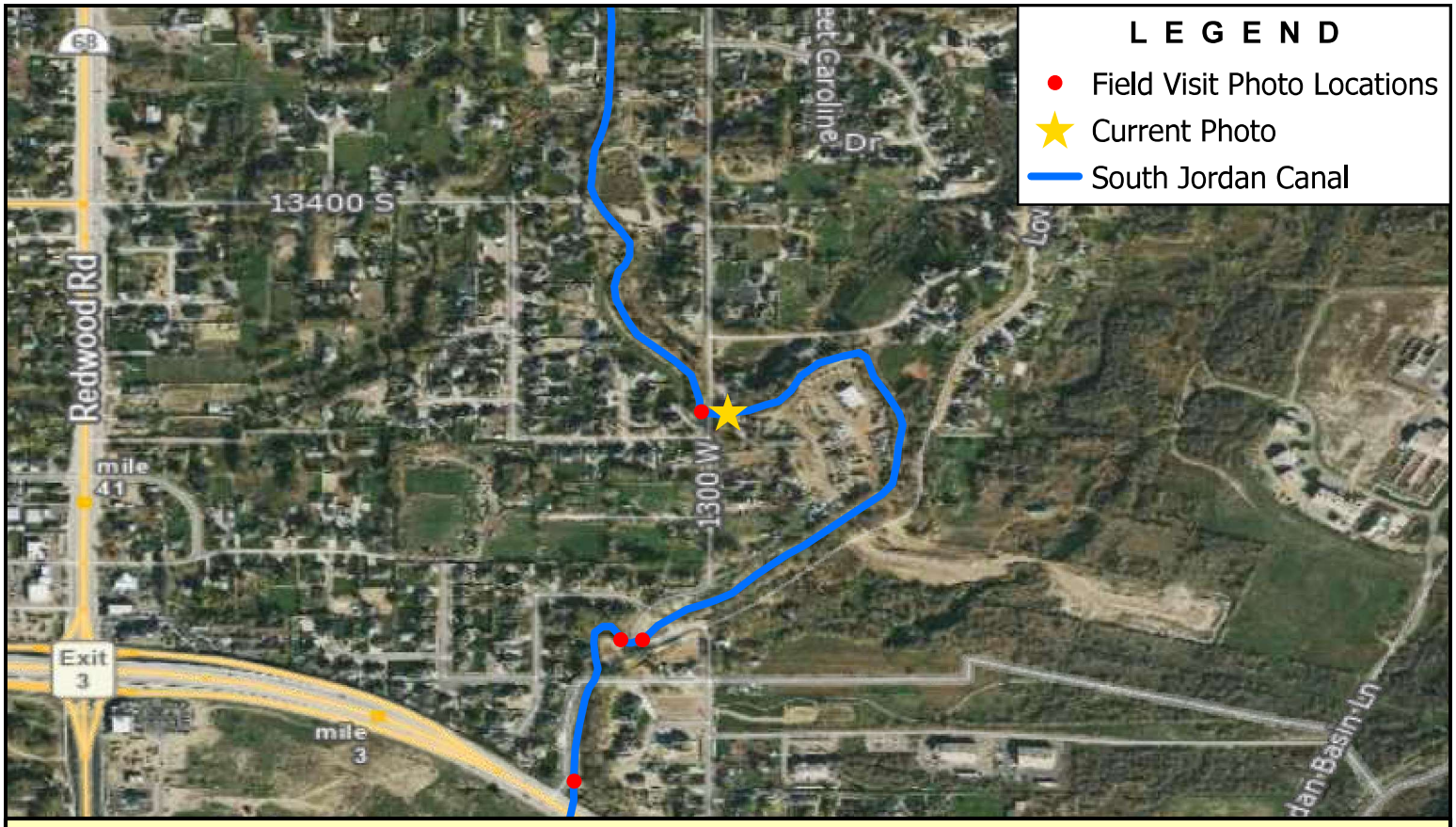
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 195

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream End of 1300 West Crossing Near 13600 South

BOWEN COLLINS & ASSOCIATES

S 1300 W

SALT LAKE COUNTY

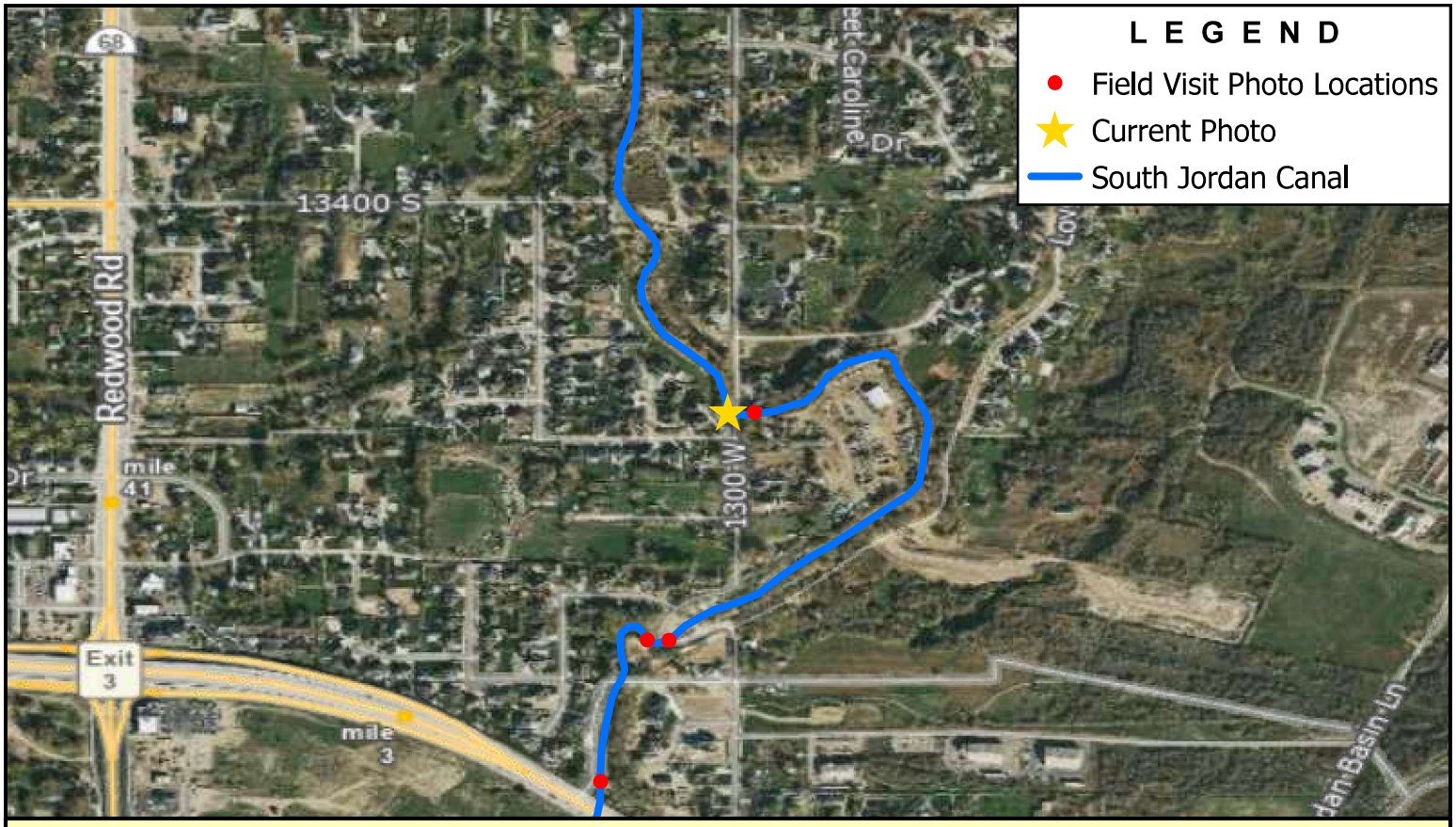
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 196

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream End of 1300 West Crossing Near 13600 South

BOWEN COLLINS & ASSOCIATES

S 1300 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 197

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream End of 1300 West Crossing Near 13750 South

BOWEN COLLINS & ASSOCIATES

s 1300 W

SALT LAKE COUNTY

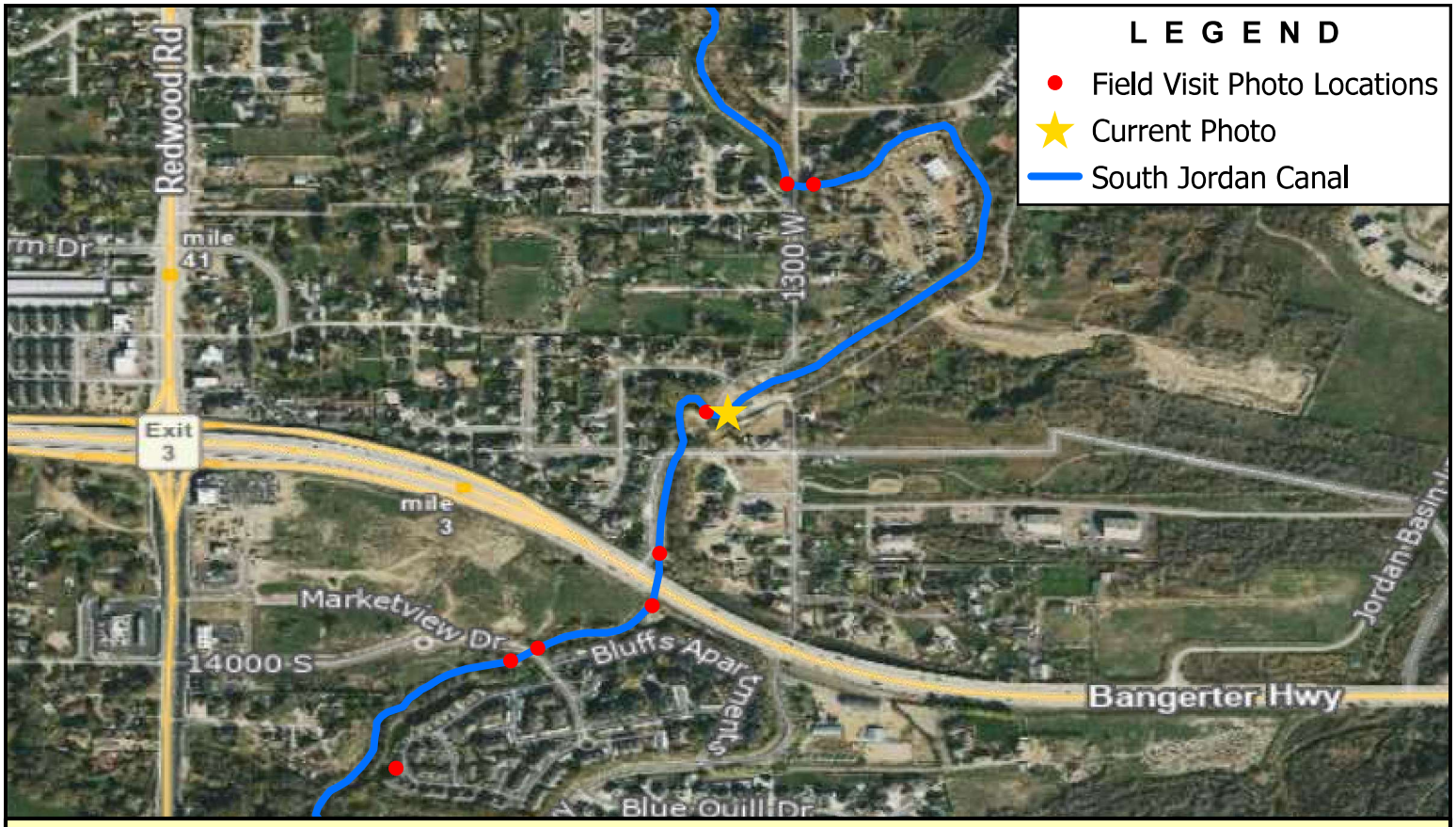
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 198

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream End of 1300 West Crossing Near 13750 South

BOWEN COLLINS & ASSOCIATES

s 1300 W

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 199

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream End of Bangerter Highway

BOWEN COLLINS & ASSOCIATES

Bangerter Highway

SALT LAKE COUNTY

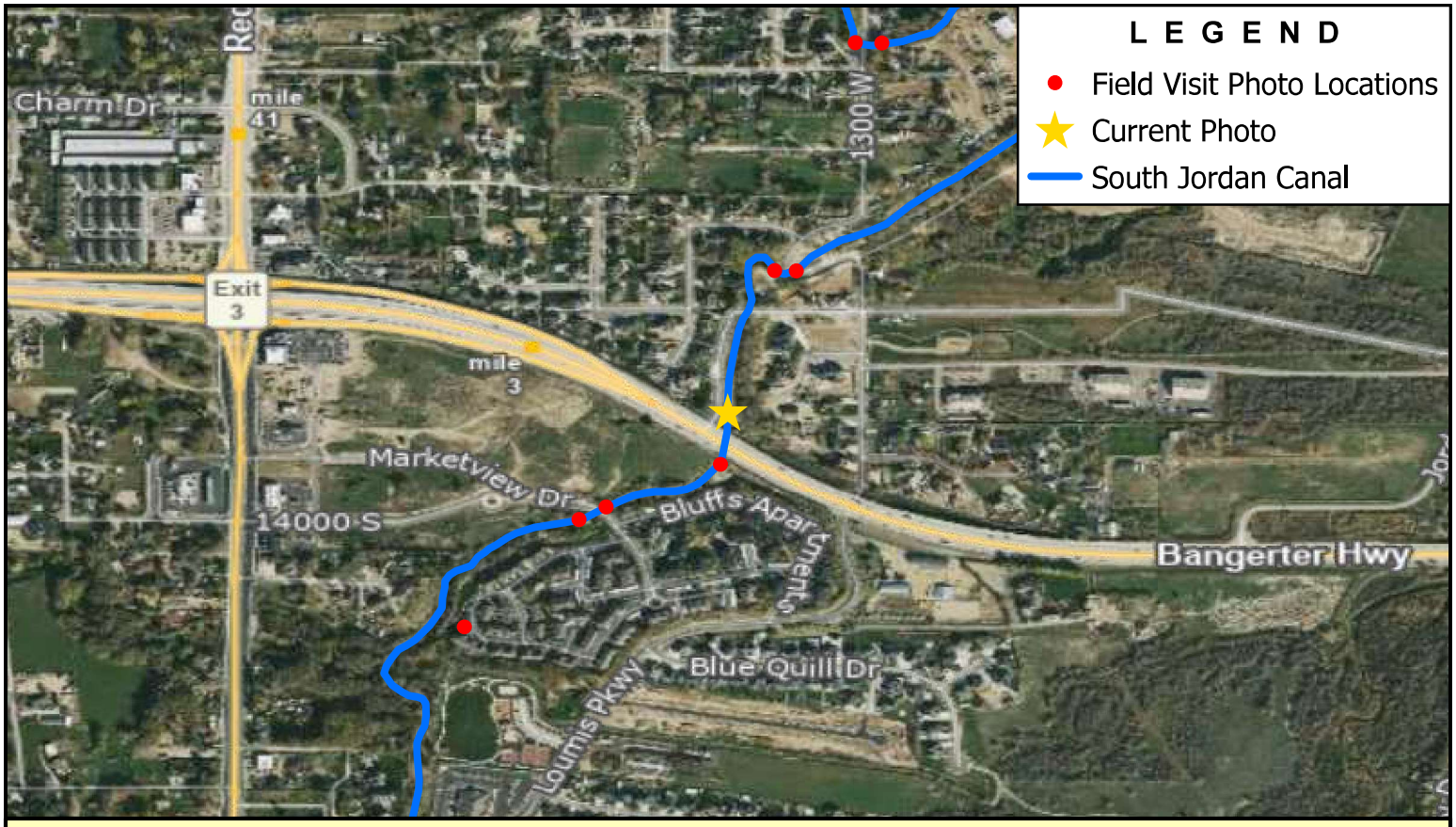
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 200

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream End of Bangerter Highway

BOWEN COLLINS & ASSOCIATES

Bangerter Highway

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 201

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream End of Marketview Dr.

BOWEN COLLINS & ASSOCIATES

W 13970 S / Marketview Dr

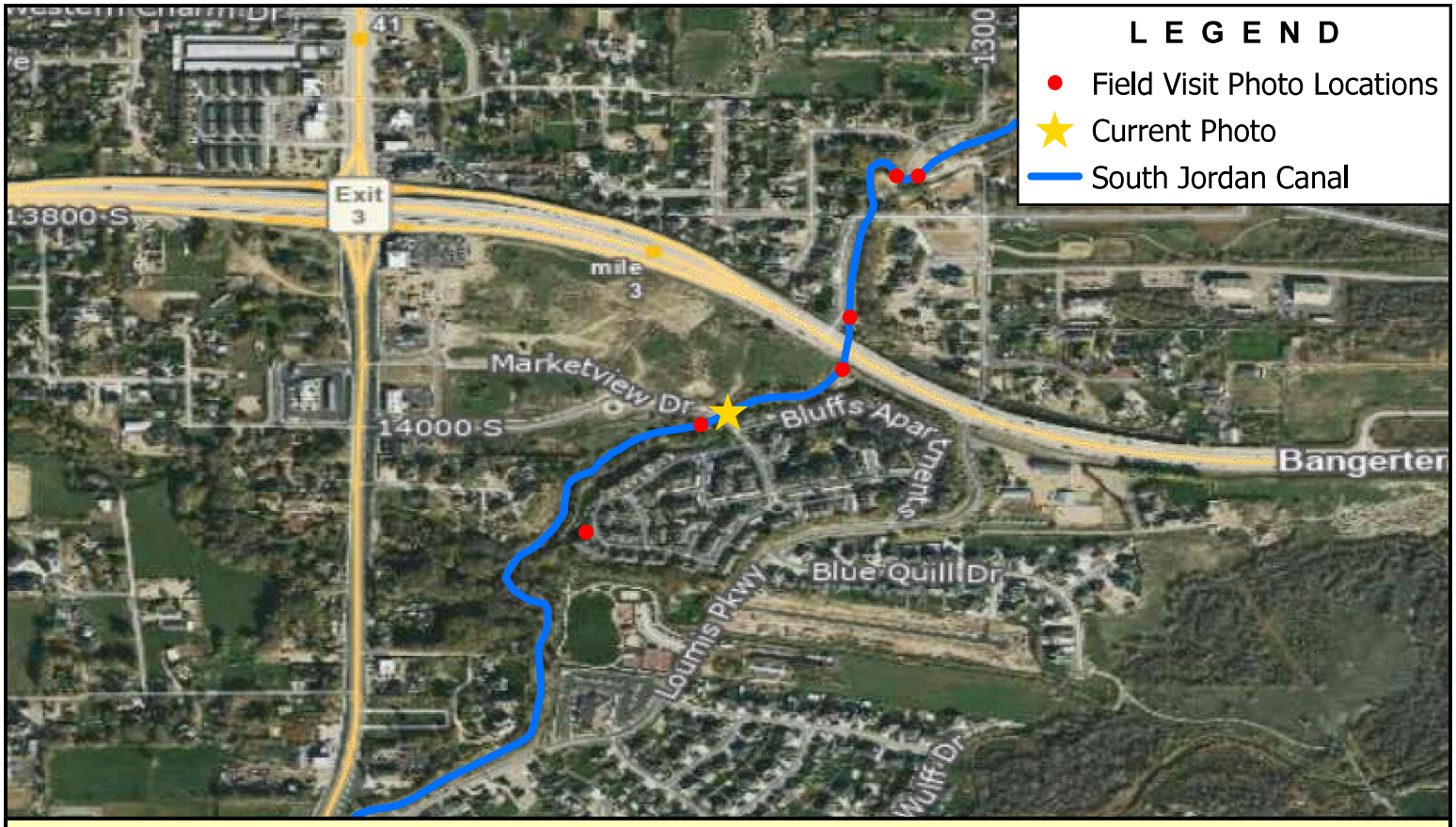
SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 202



Note: Downstream End of Marketview Dr.

BOWEN COLLINS & ASSOCIATES

W 13970 S / Marketview Dr

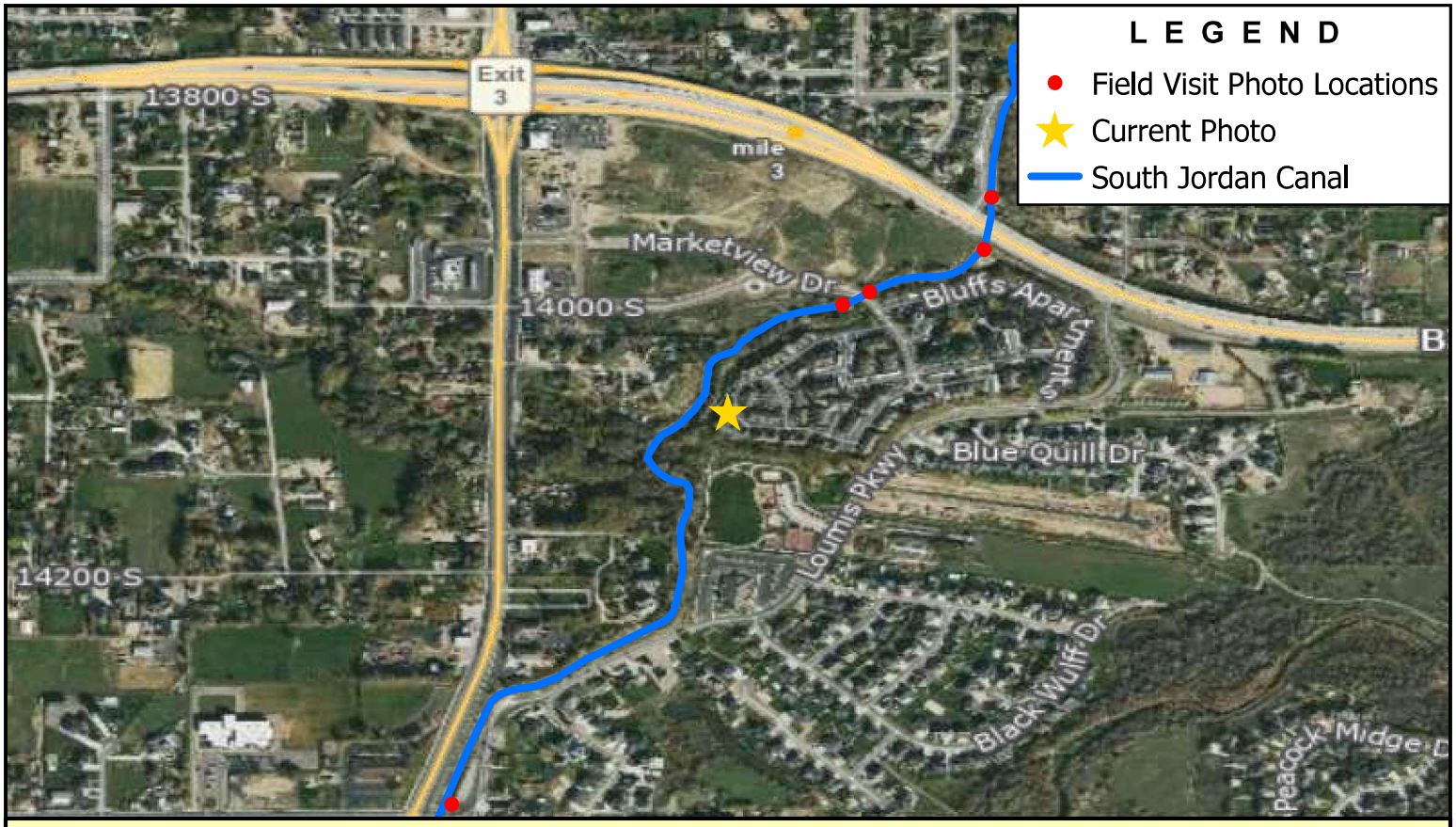
SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

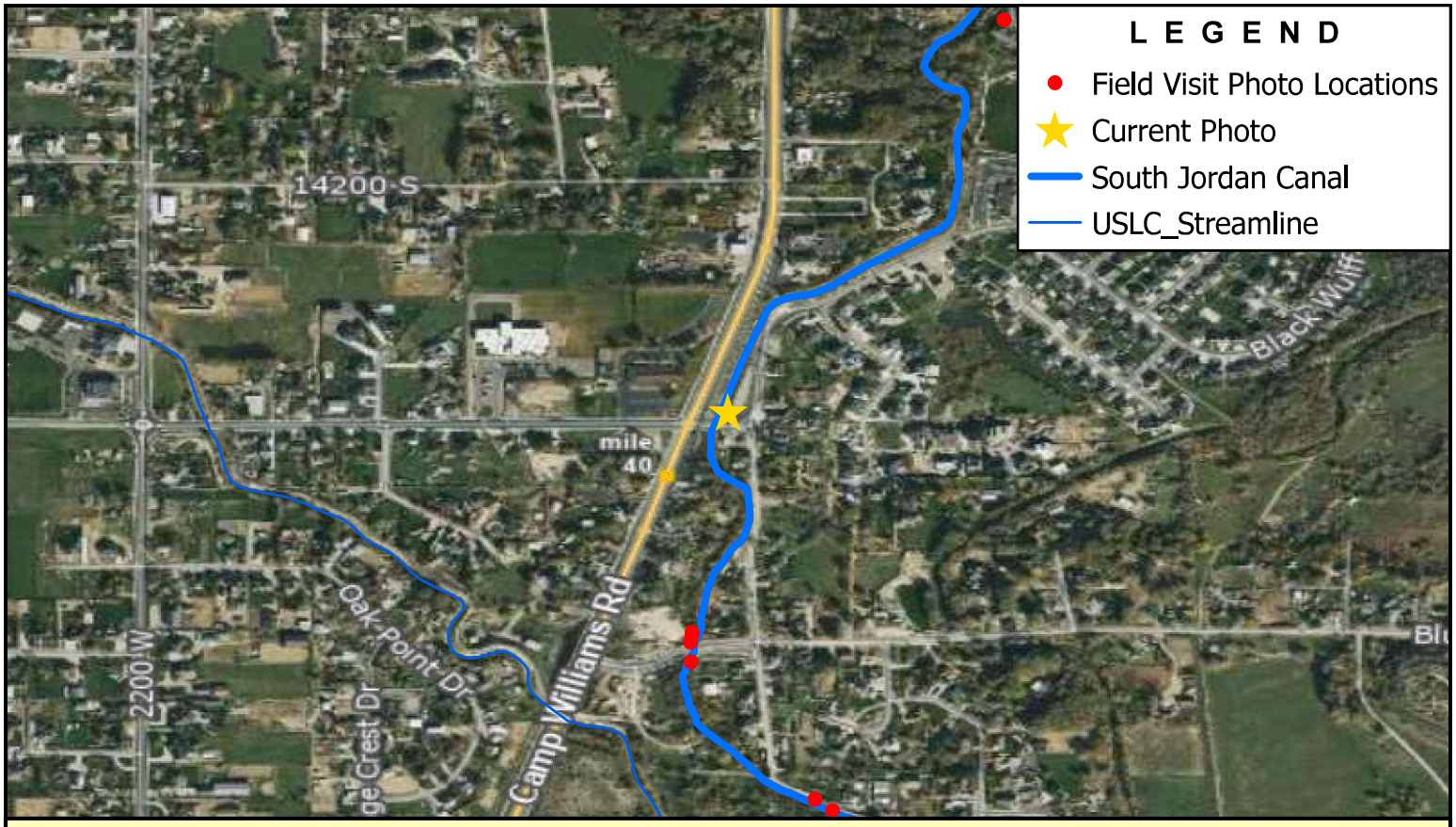
SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 203



Note: Rose Creek Dumpout

BOWEN COLLINS & ASSOCIATES	Rose Creek Dumpout	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 204



Note: Downstream Side of 14400 South Crossing

BOWEN COLLINS & ASSOCIATES	14400 South	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 205

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Access Bridge North of 14600 South

BOWEN COLLINS & ASSOCIATES

by 14600 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 206

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Facing 14600 South From Access Bridge

BOWEN COLLINS & ASSOCIATES

by 14600 S

SALT LAKE COUNTY

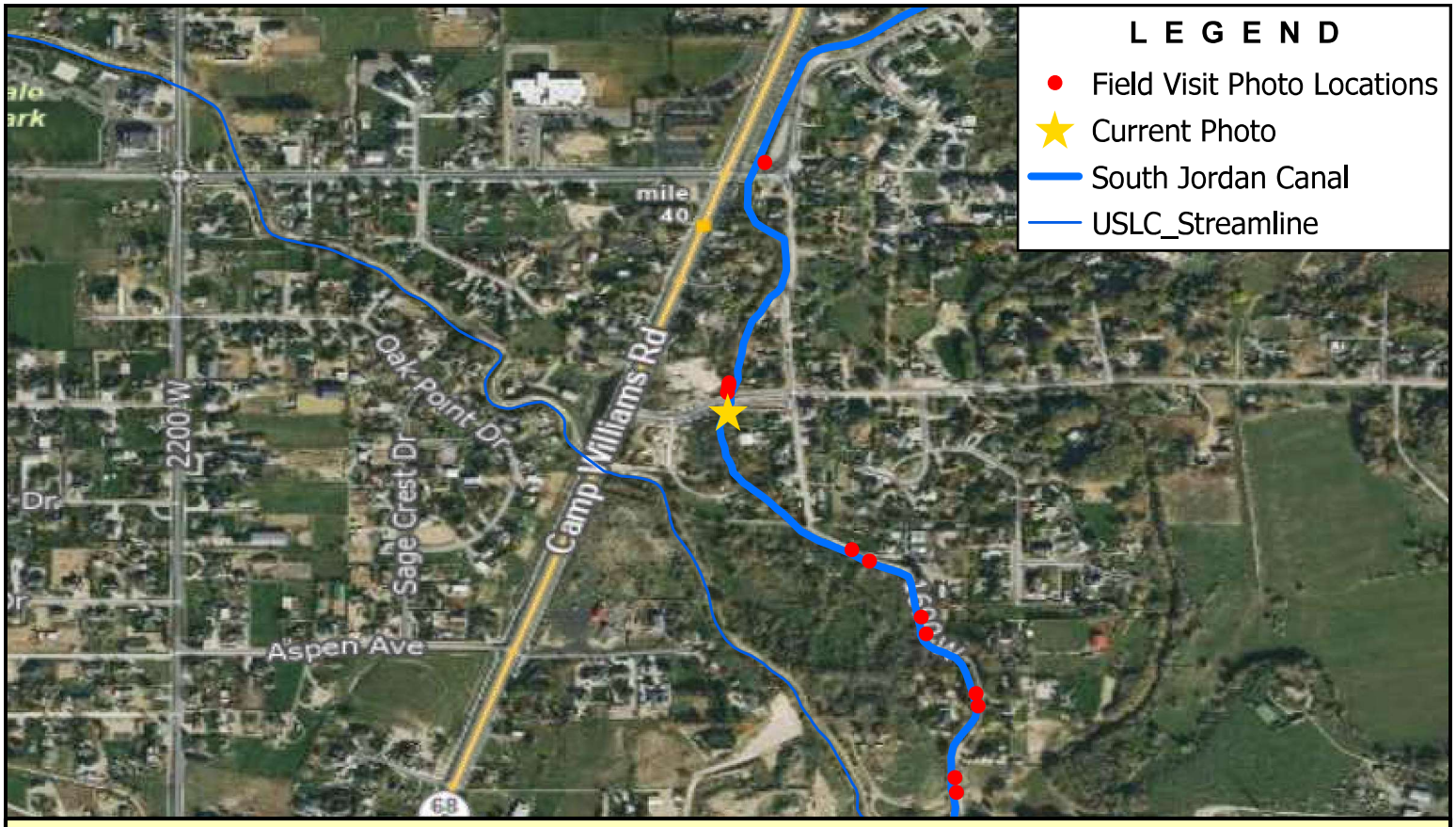
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 207

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of 14600 South Crossing

BOWEN COLLINS & ASSOCIATES

14600 S

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 208

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of 14600 South Crossing

BOWEN COLLINS & ASSOCIATES

14600 S

SALT LAKE COUNTY

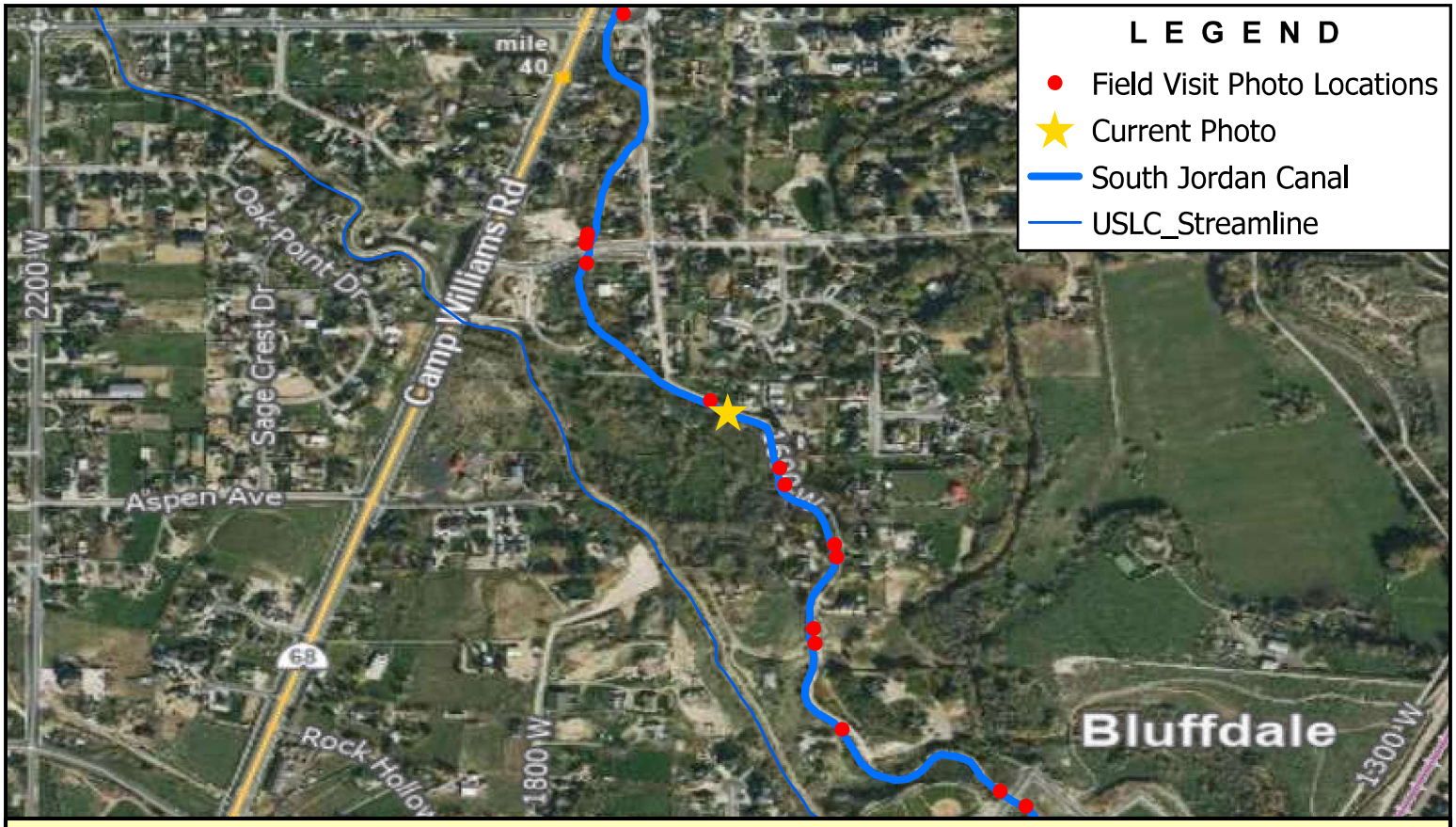
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 209

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Access Road #1

BOWEN COLLINS & ASSOCIATES

Access Road #1

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

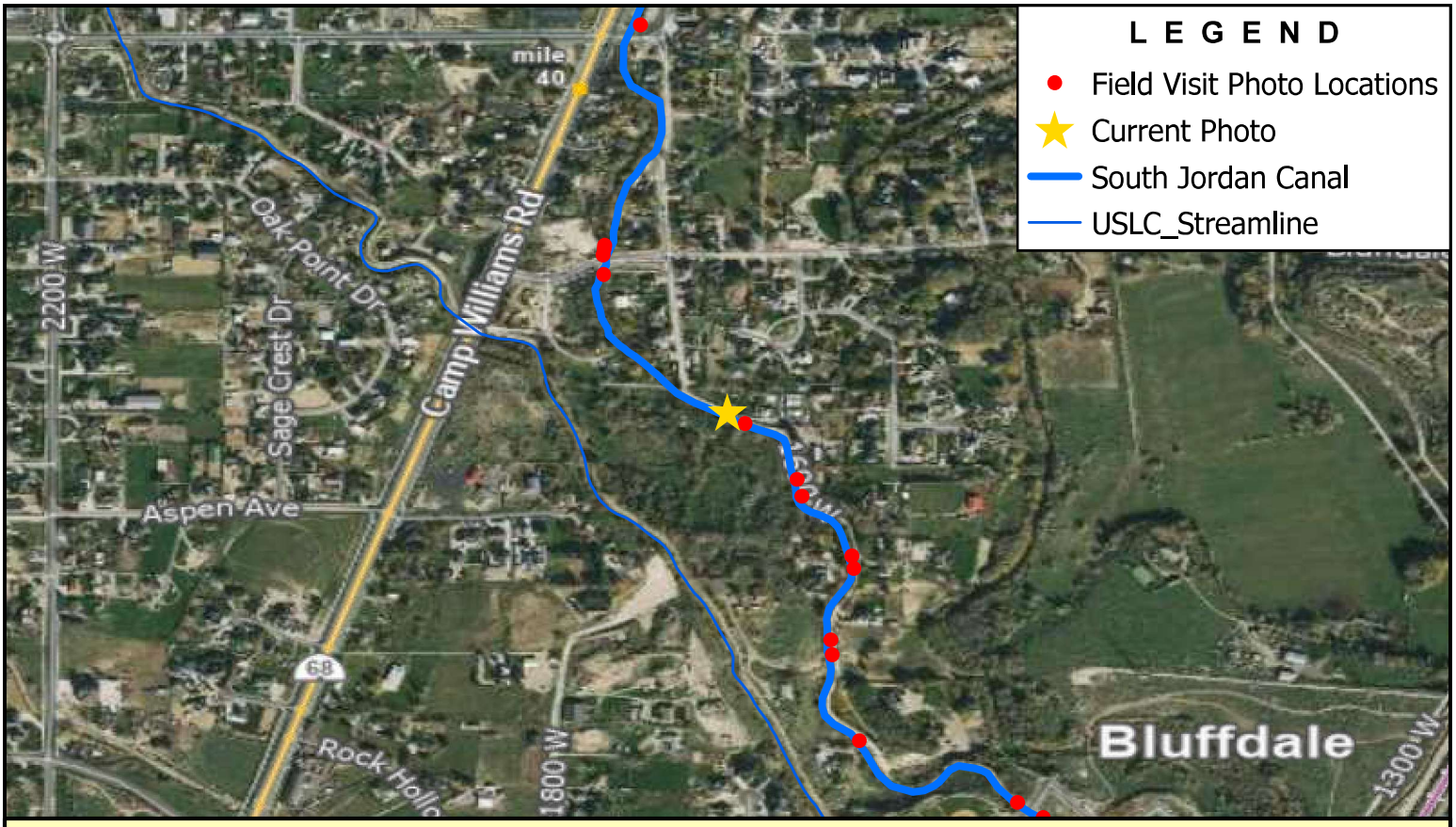
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 210

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Access Road #1

BOWEN COLLINS & ASSOCIATES

Access Road #1

SALT LAKE COUNTY

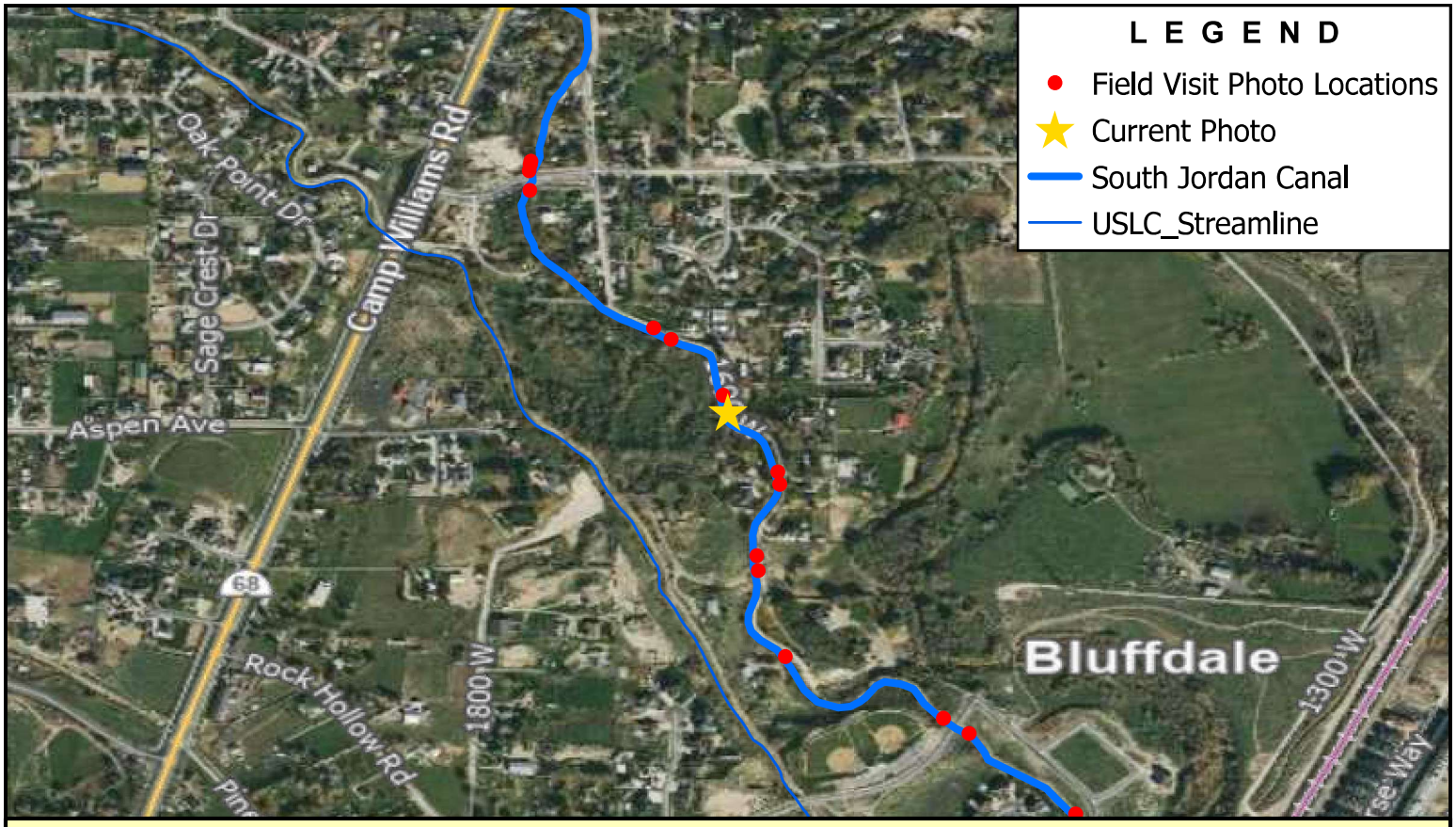
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 211

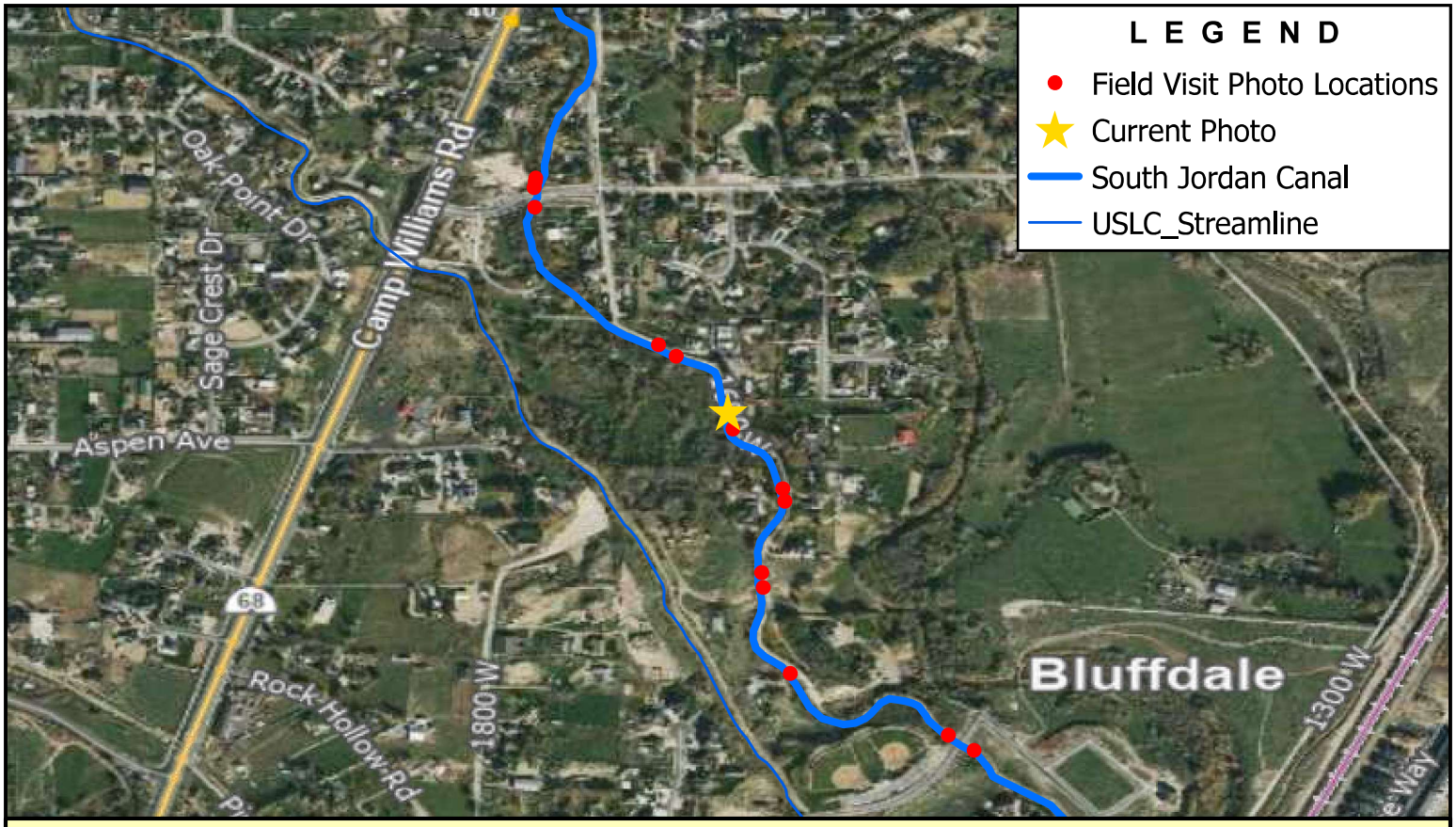
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



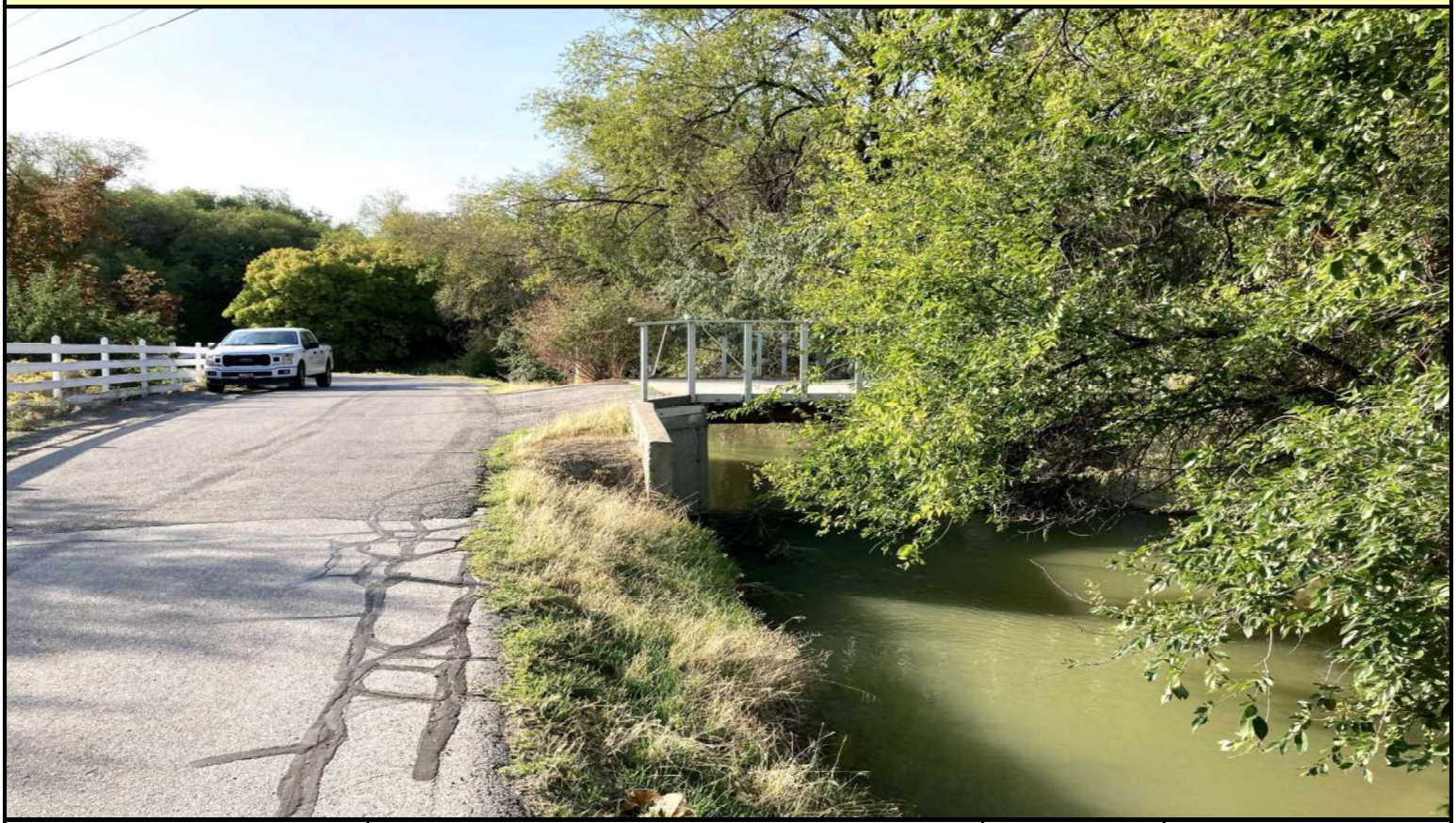
Note: Upstream Side of Access Road #2

BOWEN COLLINS & ASSOCIATES	Access Road #2	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 212

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Access Road #2



BOWEN COLLINS & ASSOCIATES

Access Road #2

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

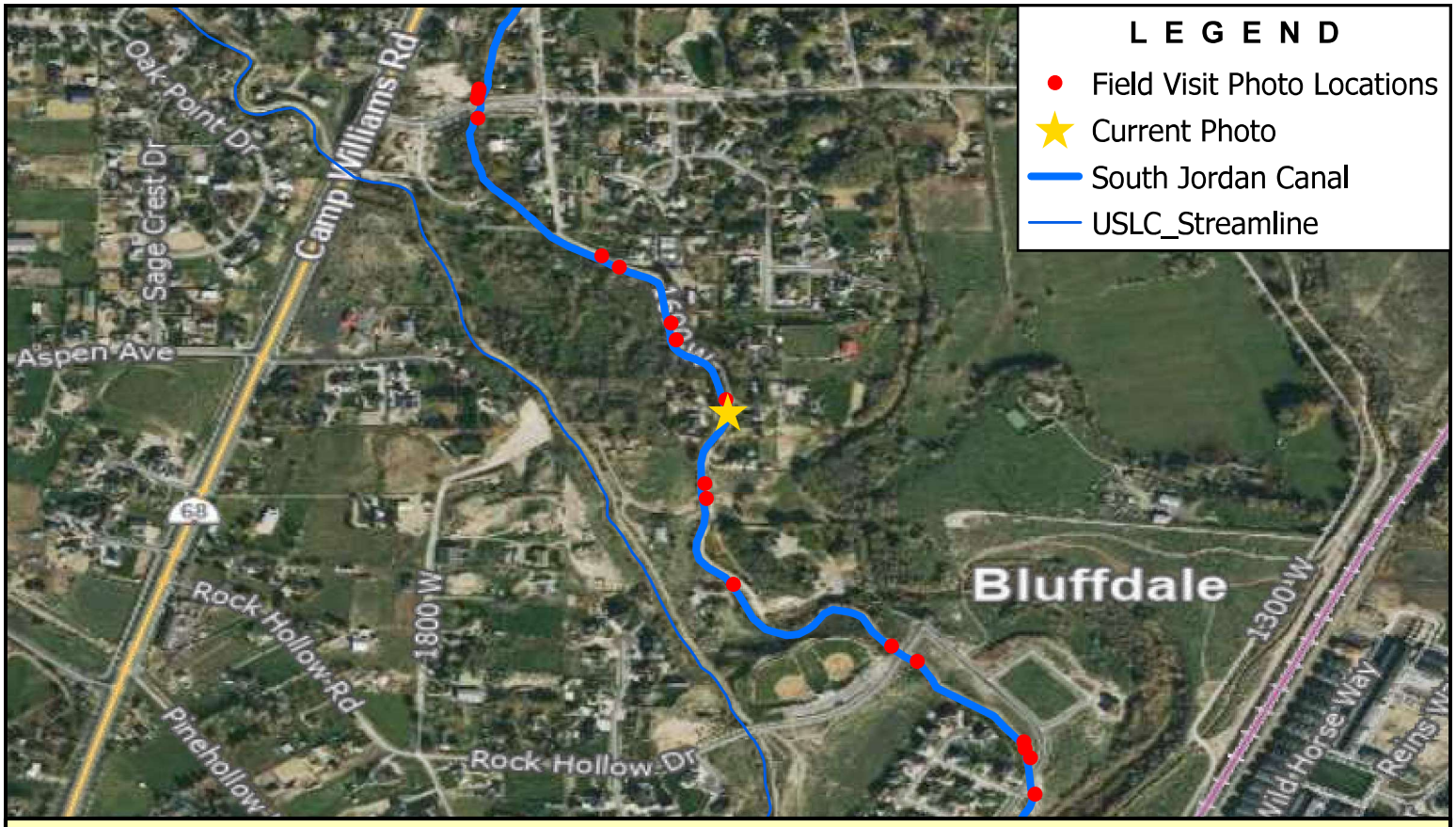
NORTH:

NORTH

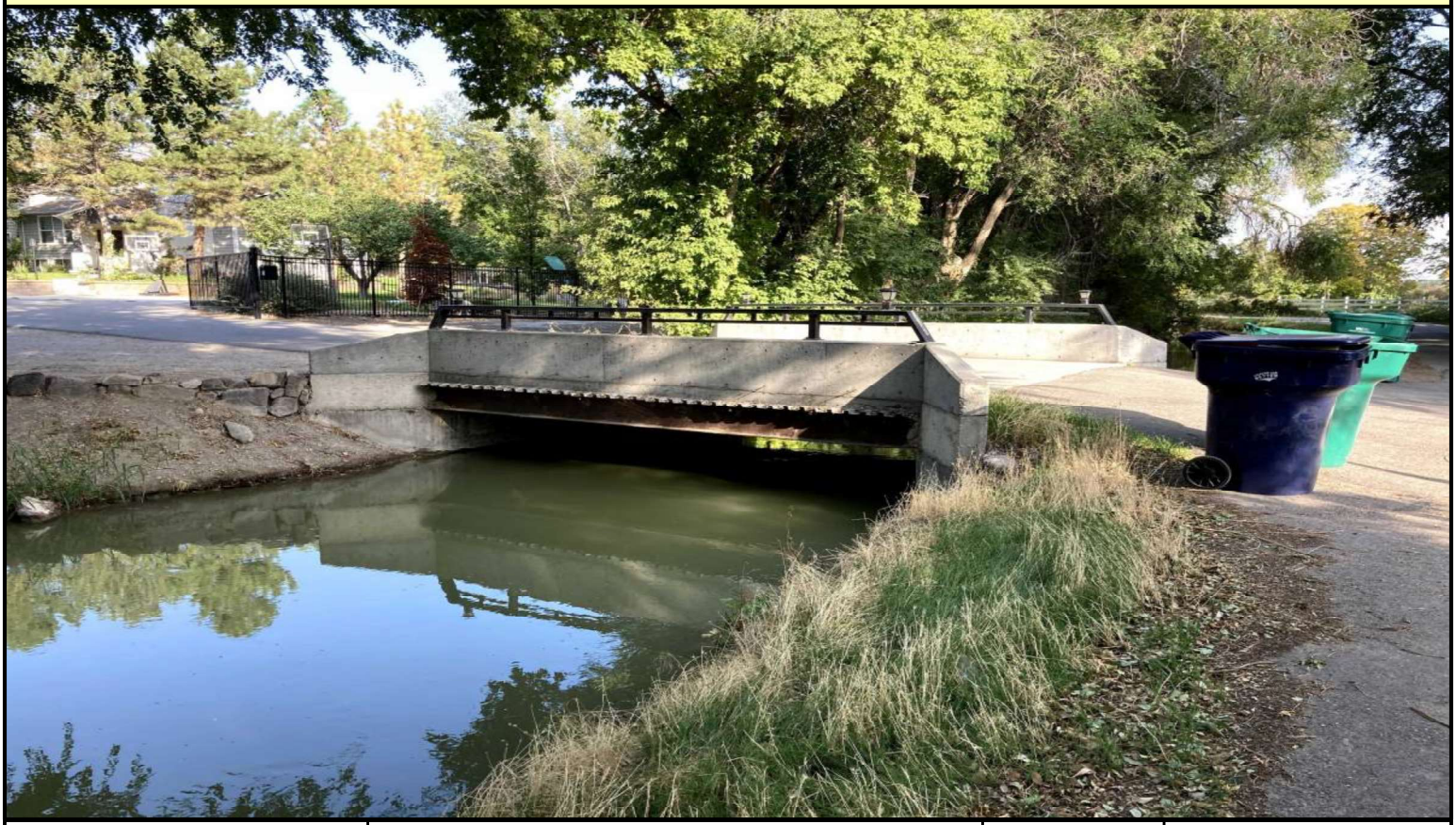
SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 213

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Access Road #3



BOWEN COLLINS & ASSOCIATES

Access Road #3

SALT LAKE COUNTY

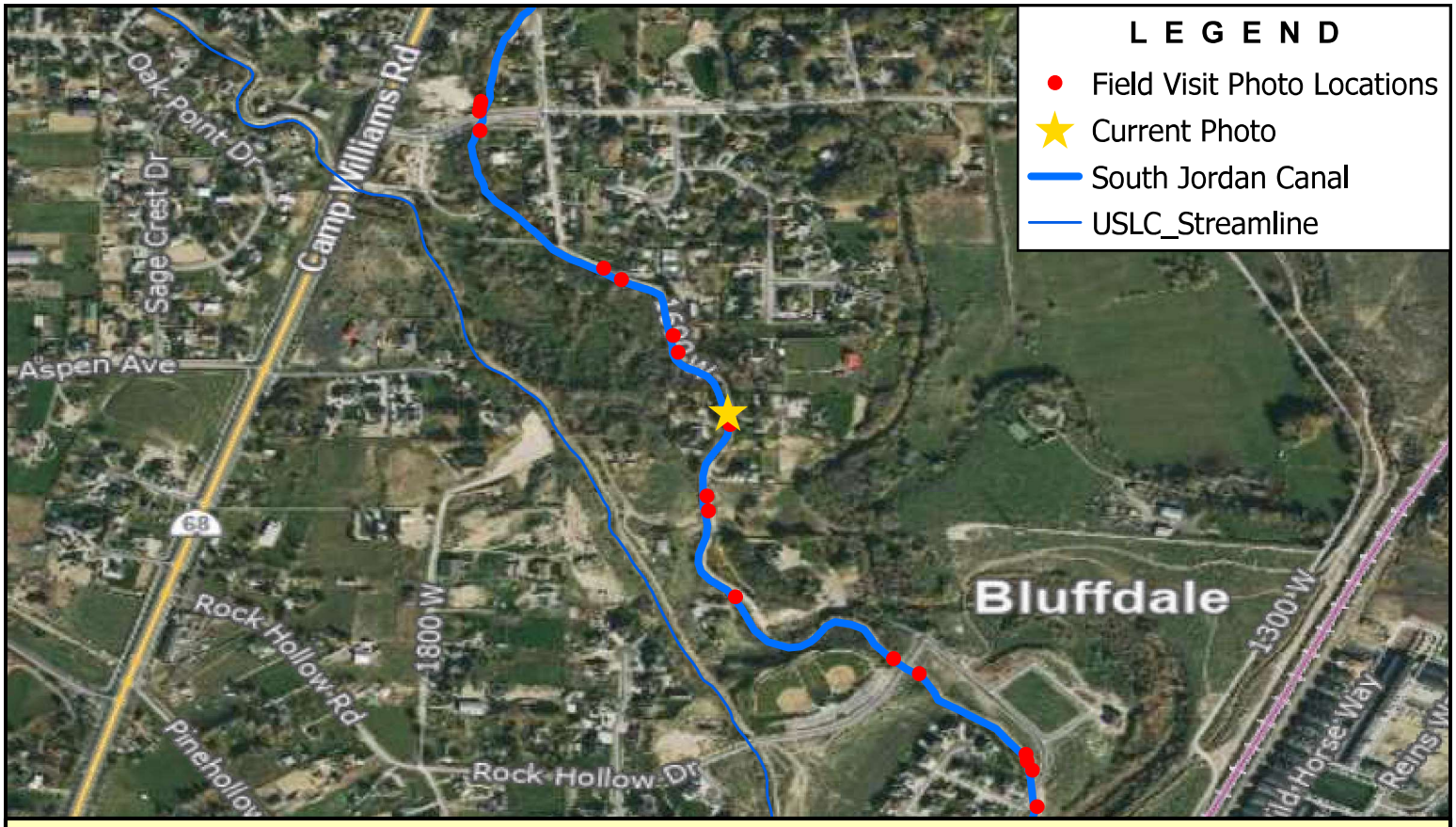
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 214

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Access Road #3

BOWEN COLLINS & ASSOCIATES

Access Road #3

SALT LAKE COUNTY

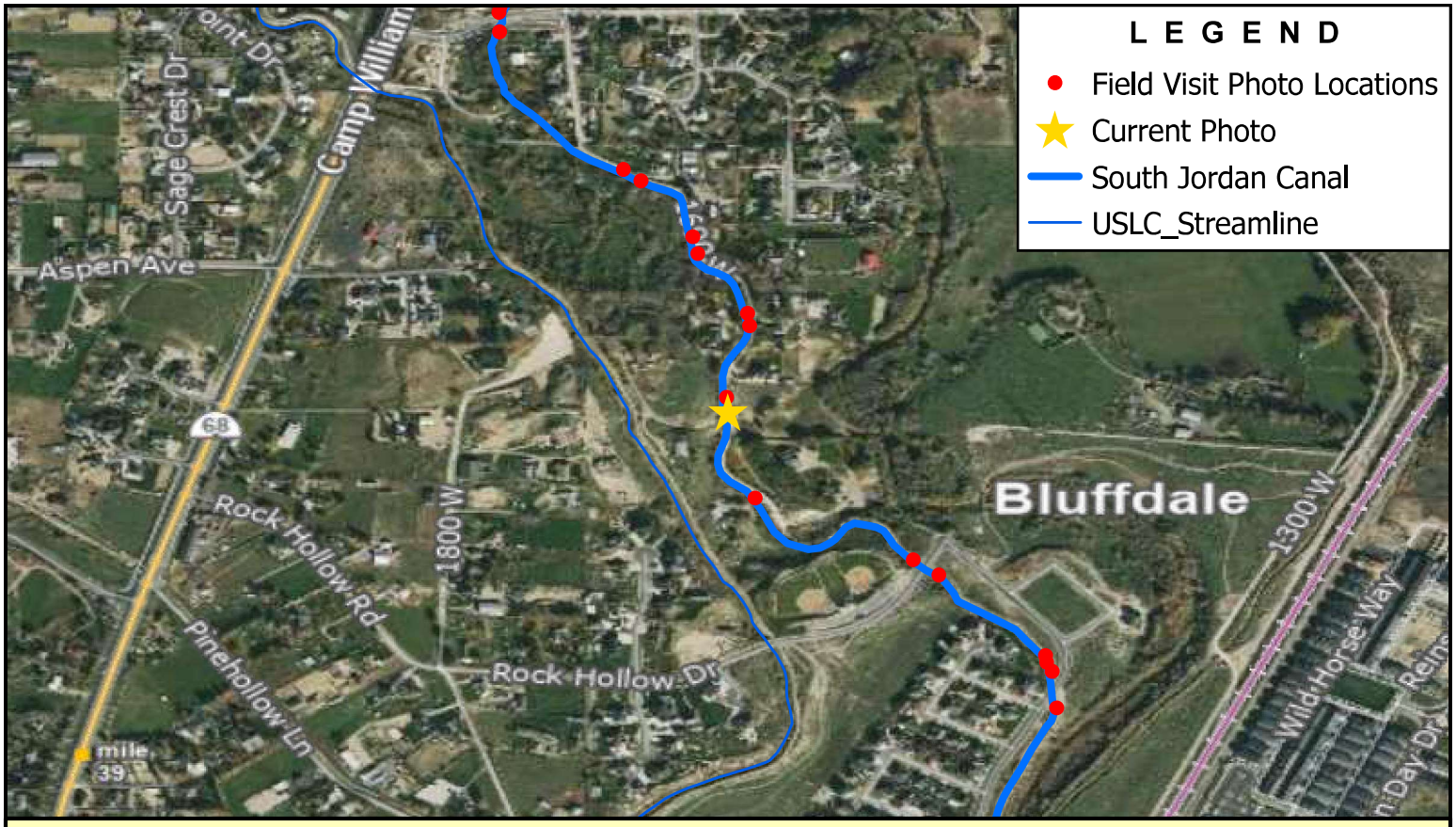
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 215

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Access Road #4

BOWEN COLLINS & ASSOCIATES

Access Road #4

SALT LAKE COUNTY

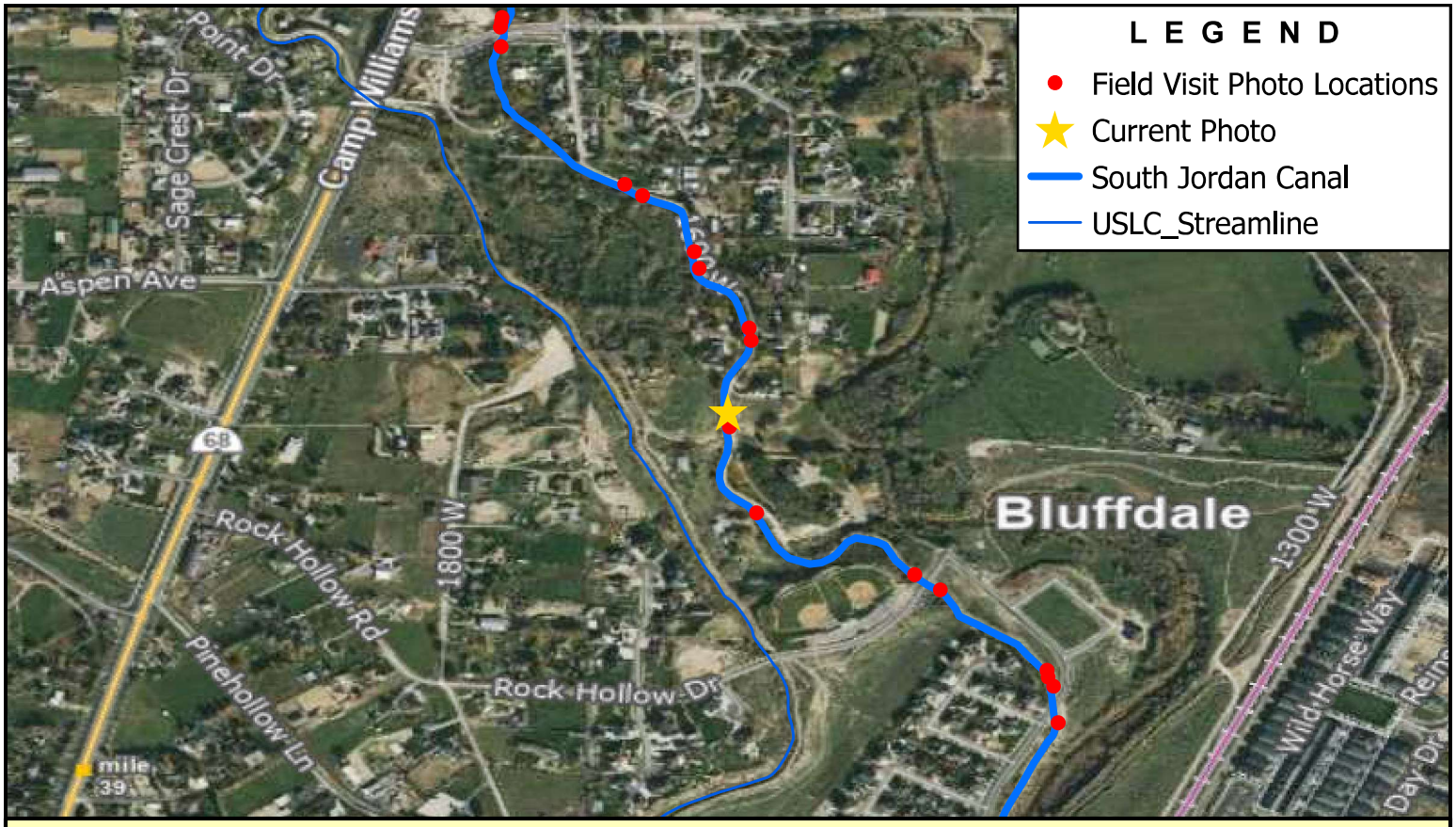
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 216

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Access Road #4

BOWEN COLLINS & ASSOCIATES

Access Road #4

SALT LAKE COUNTY

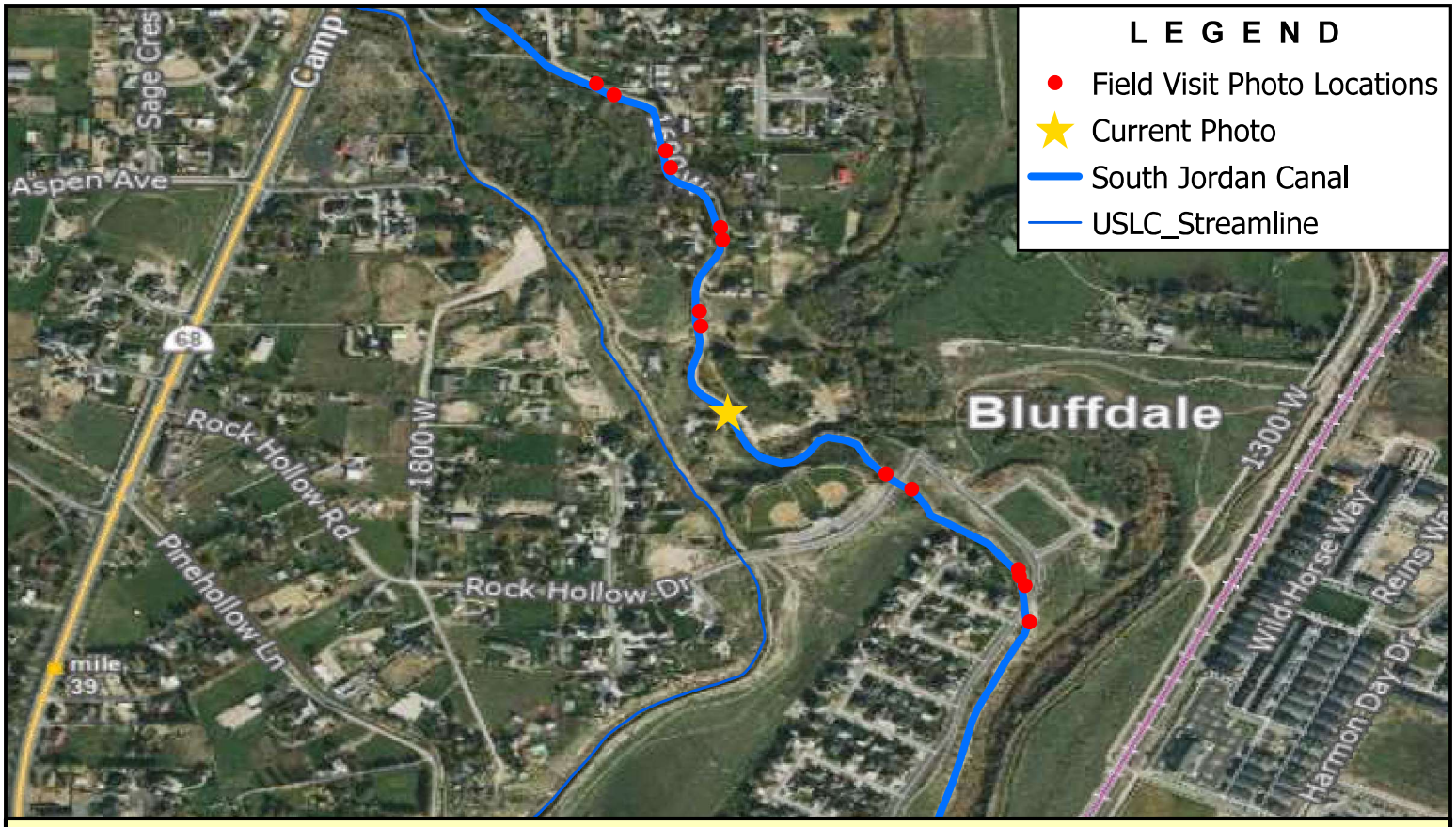
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 217

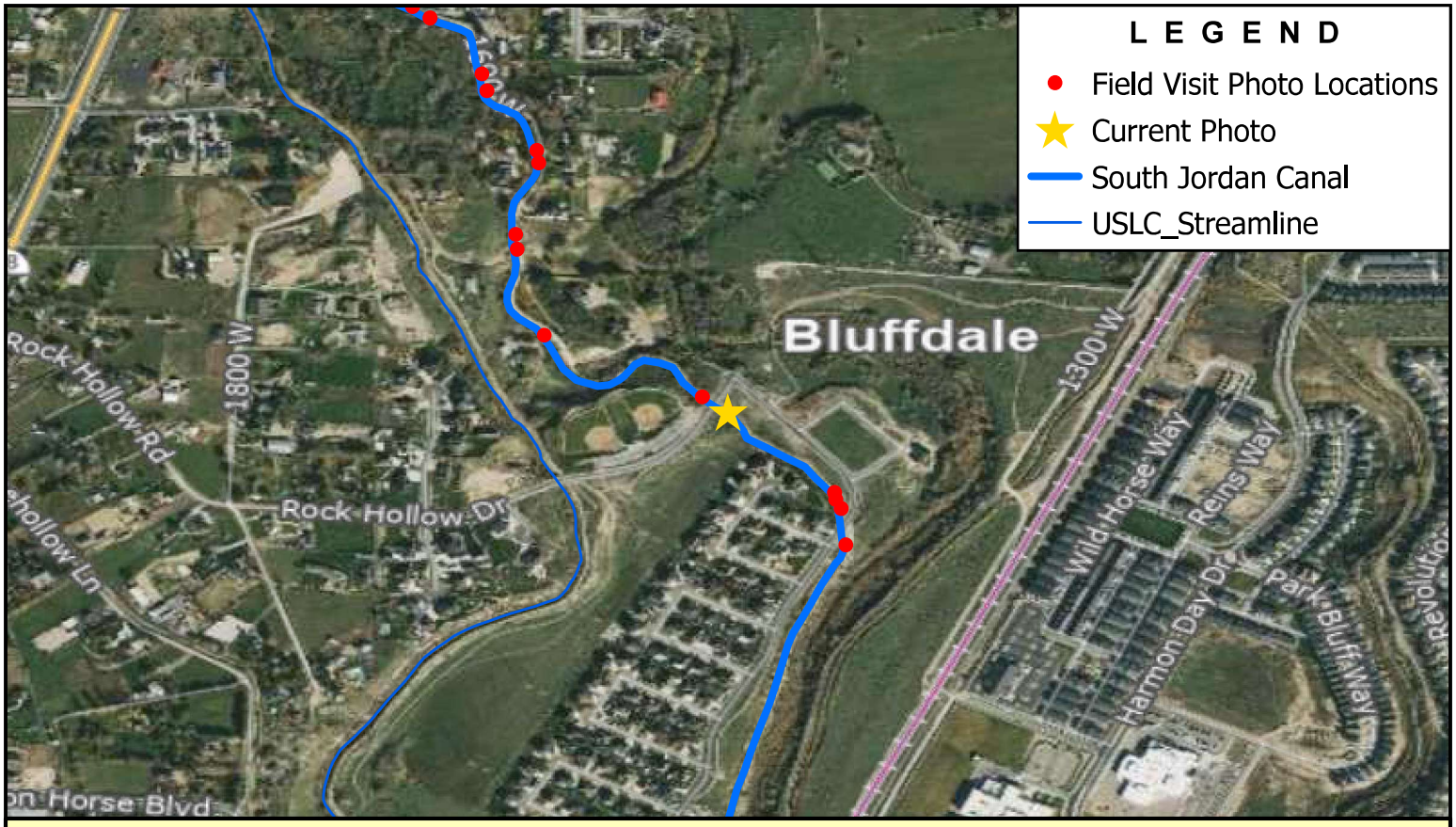
P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Access Road #5

BOWEN COLLINS & ASSOCIATES	Access Road #5	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY		PHOTOGRAPH NO. 218

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Rock Hollow Dr.

BOWEN COLLINS & ASSOCIATES

W Rock Hollow Dr

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

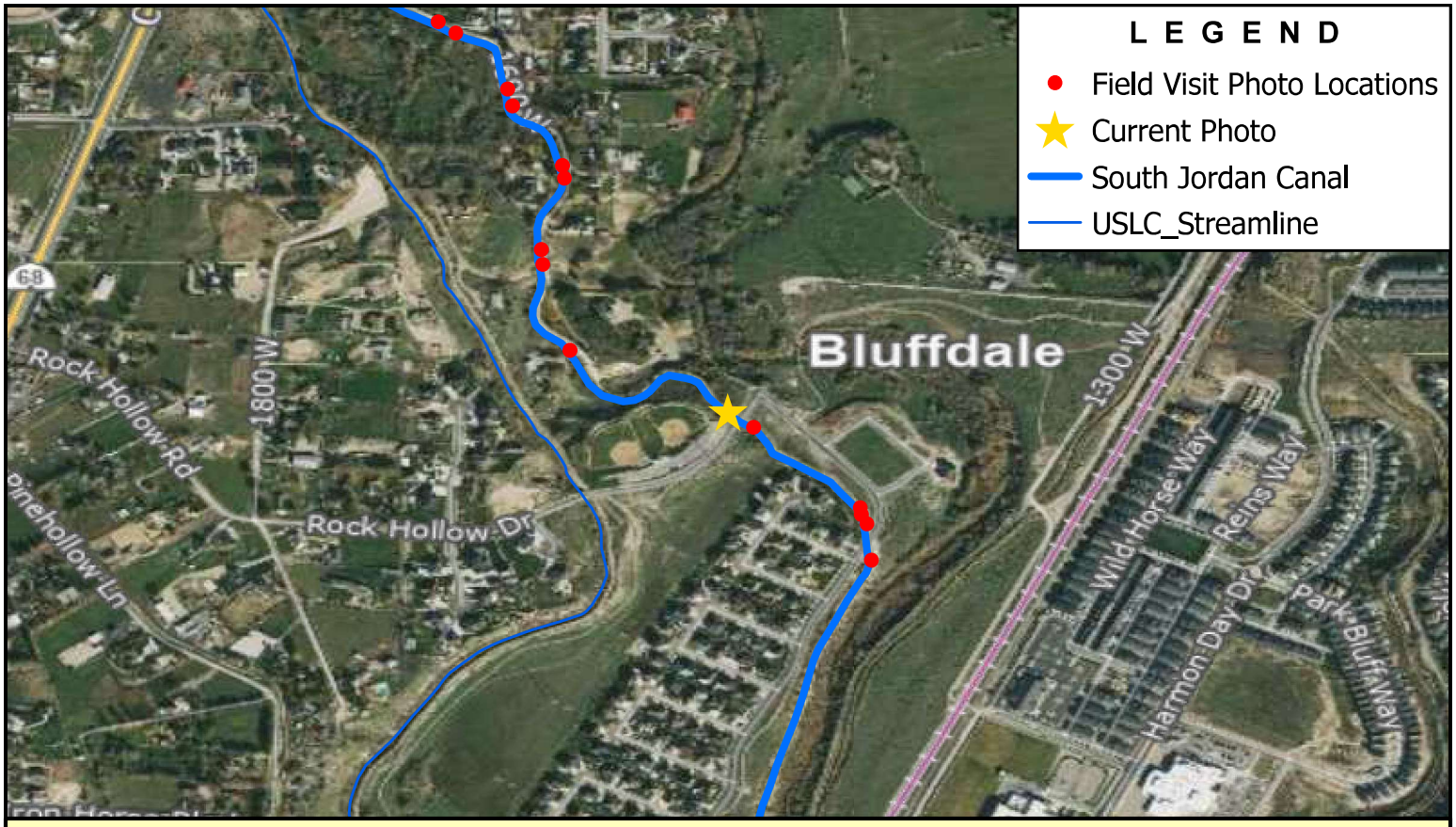
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 219

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Rock Hollow Dr.

BOWEN COLLINS & ASSOCIATES

W Rock Hollow Dr

SALT LAKE COUNTY

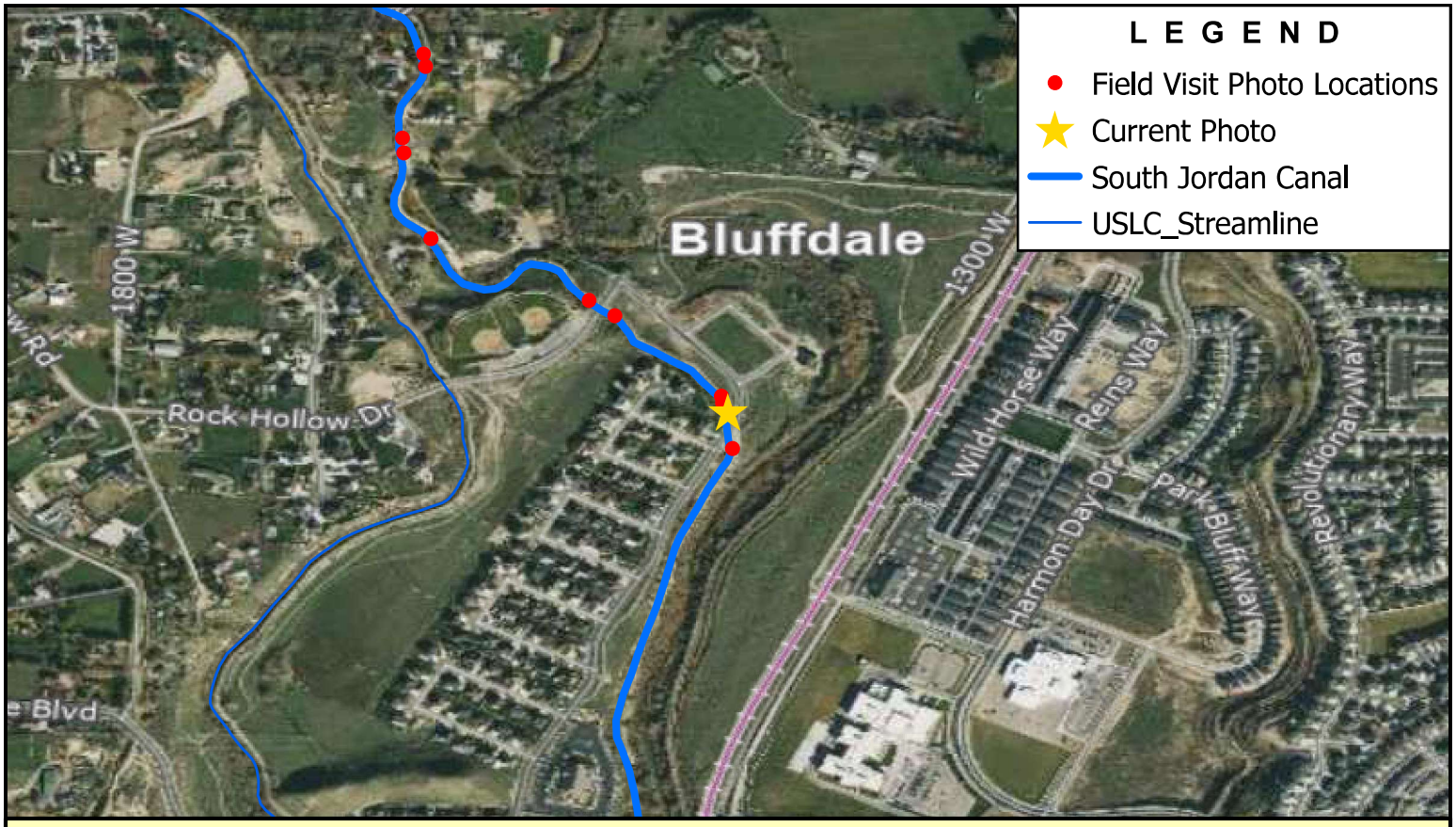
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 220

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Access Bridge Near Cowboy Circle

by Cowboy Circle

NORTH:

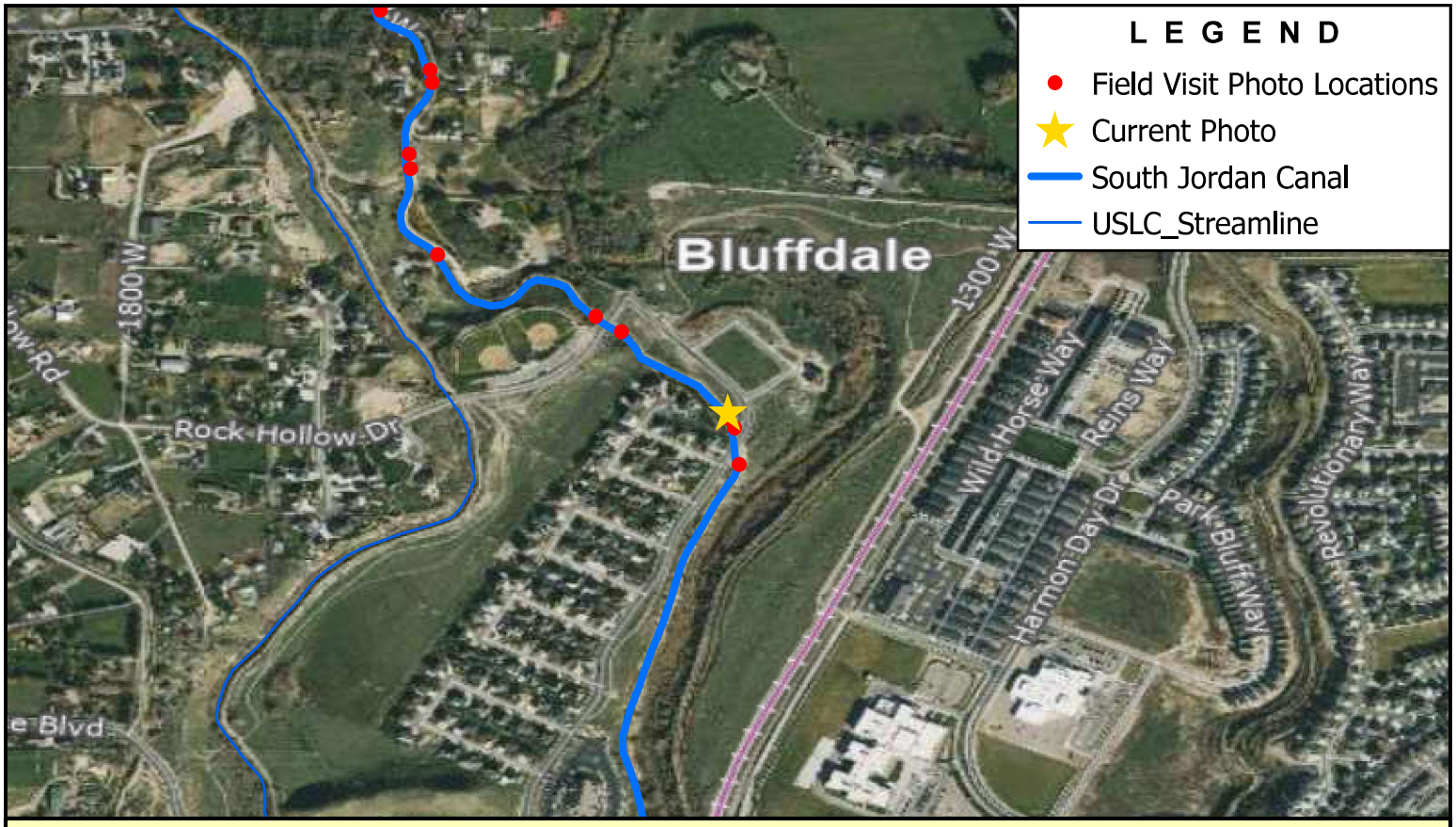
SCALE: 0 500 1,000 Feet

BOWEN COLLINS & ASSOCIATES

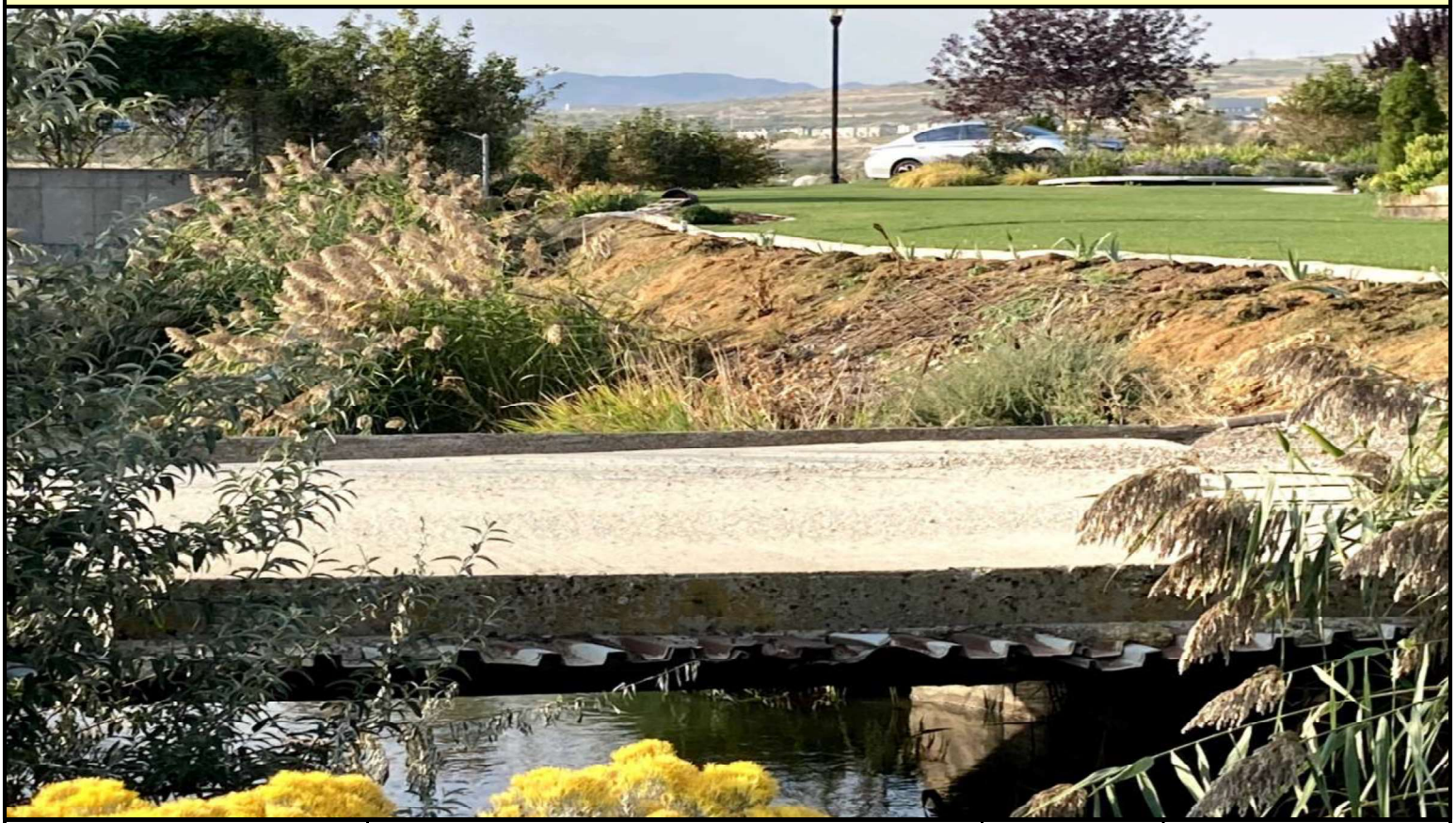
SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

PHOTOGRAPH NO. 221



Note: Downstream Side of Access Bridge Near Cowboy Circle



by Cowboy Circle

BOWEN COLLINS & ASSOCIATES

SALT LAKE COUNTY

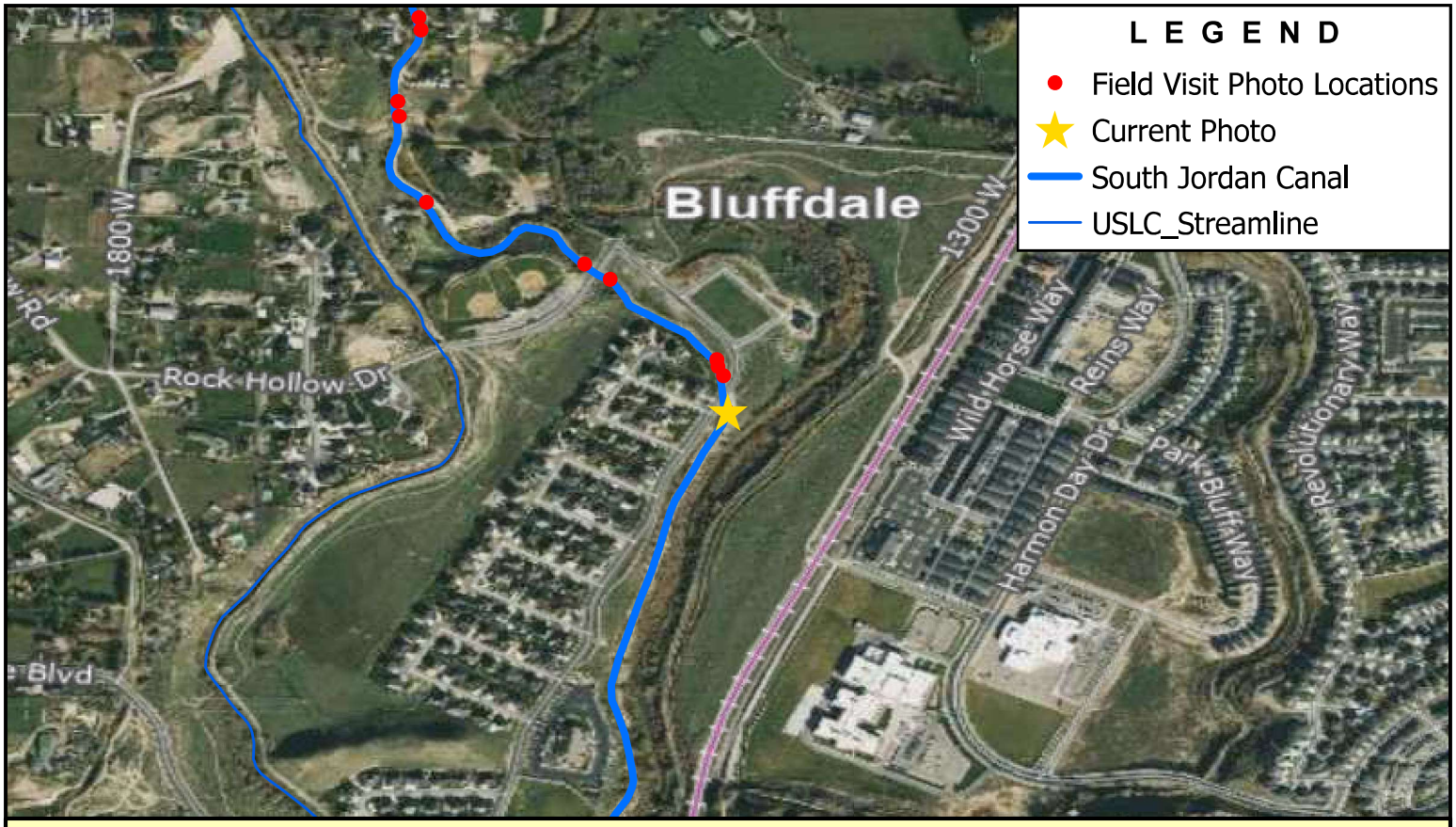
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 222

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Upstream Side of Iron Horse Boulevard Crossing

BOWEN COLLINS & ASSOCIATES

S Iron Horse Boulevard

SALT LAKE COUNTY

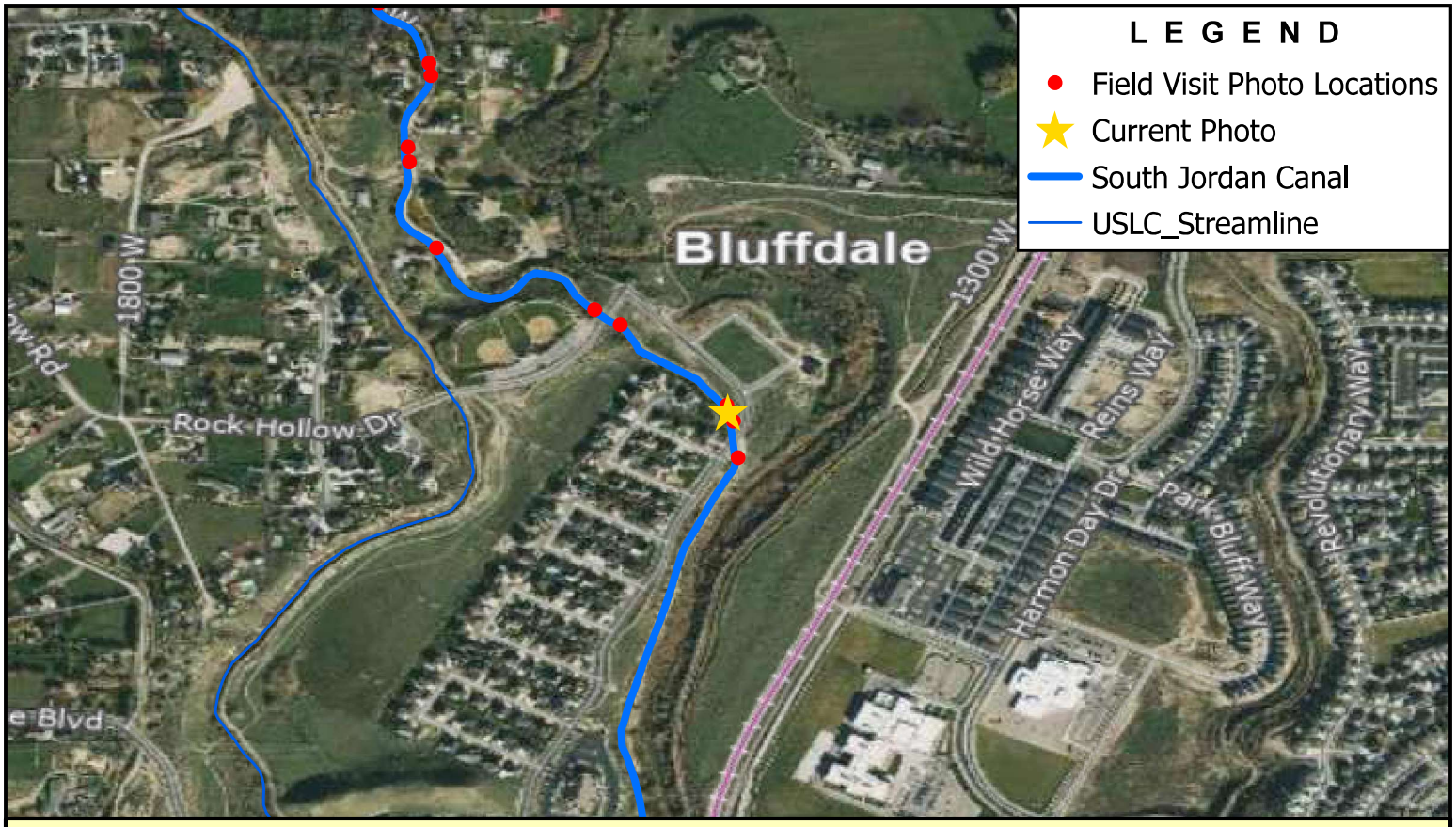
SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 223

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022



Note: Downstream Side of Iron Horse Boulevard Crossing

BOWEN COLLINS & ASSOCIATES

S Iron Horse Boulevard

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 224

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Control Weir South Jordan Canal

BOWEN COLLINS & ASSOCIATES

Broad Crested Weir

SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 225

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\South Jordan Canal\SJC - Photo Log.aprx tjorgensen 7/19/2022

Note: Upstream Side of Railroad Crossing

BOWEN COLLINS & ASSOCIATES

Railroad

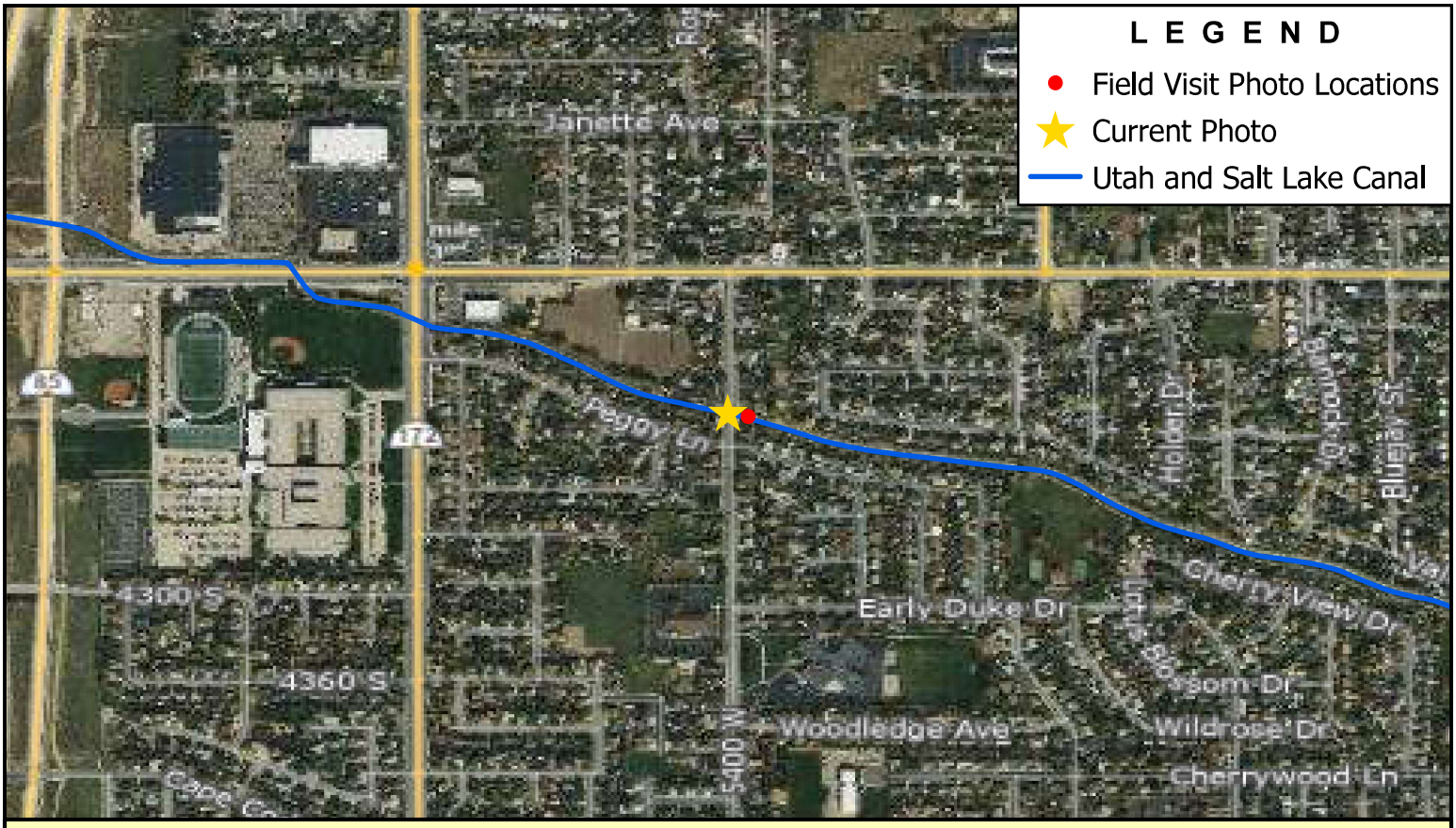
SALT LAKE COUNTY

SOUTHWEST CANAL AND CREEK STUDY

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 226



Note: 5400 West

BOWEN COLLINS & ASSOCIATES

USLC-21 DS

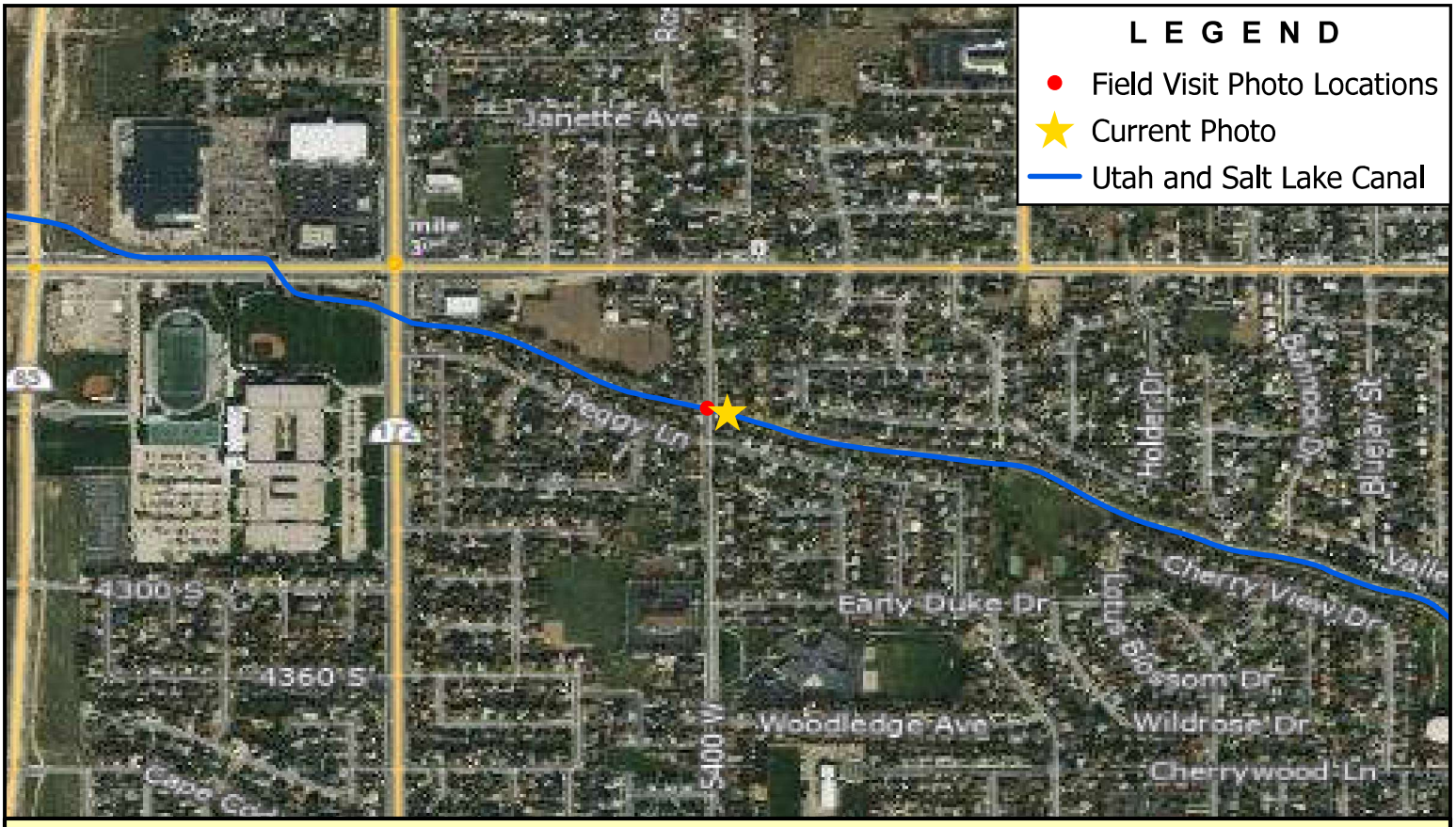
SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 1

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022



Note: 5400 West

BOWEN COLLINS & ASSOCIATES

USLC-21 US

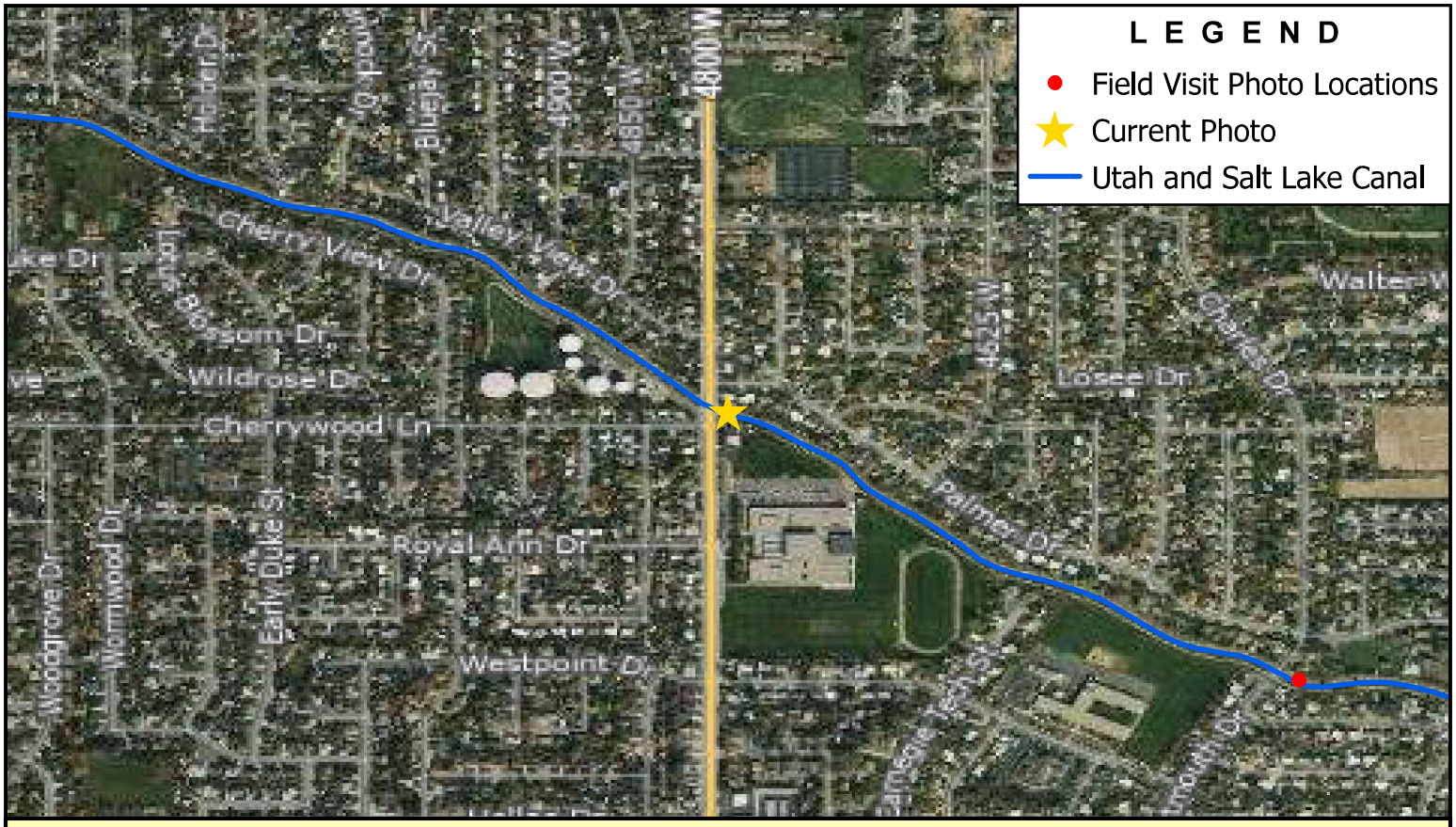
SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 2

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022



Note: 4800 West

BOWEN COLLINS & ASSOCIATES

USLC-22

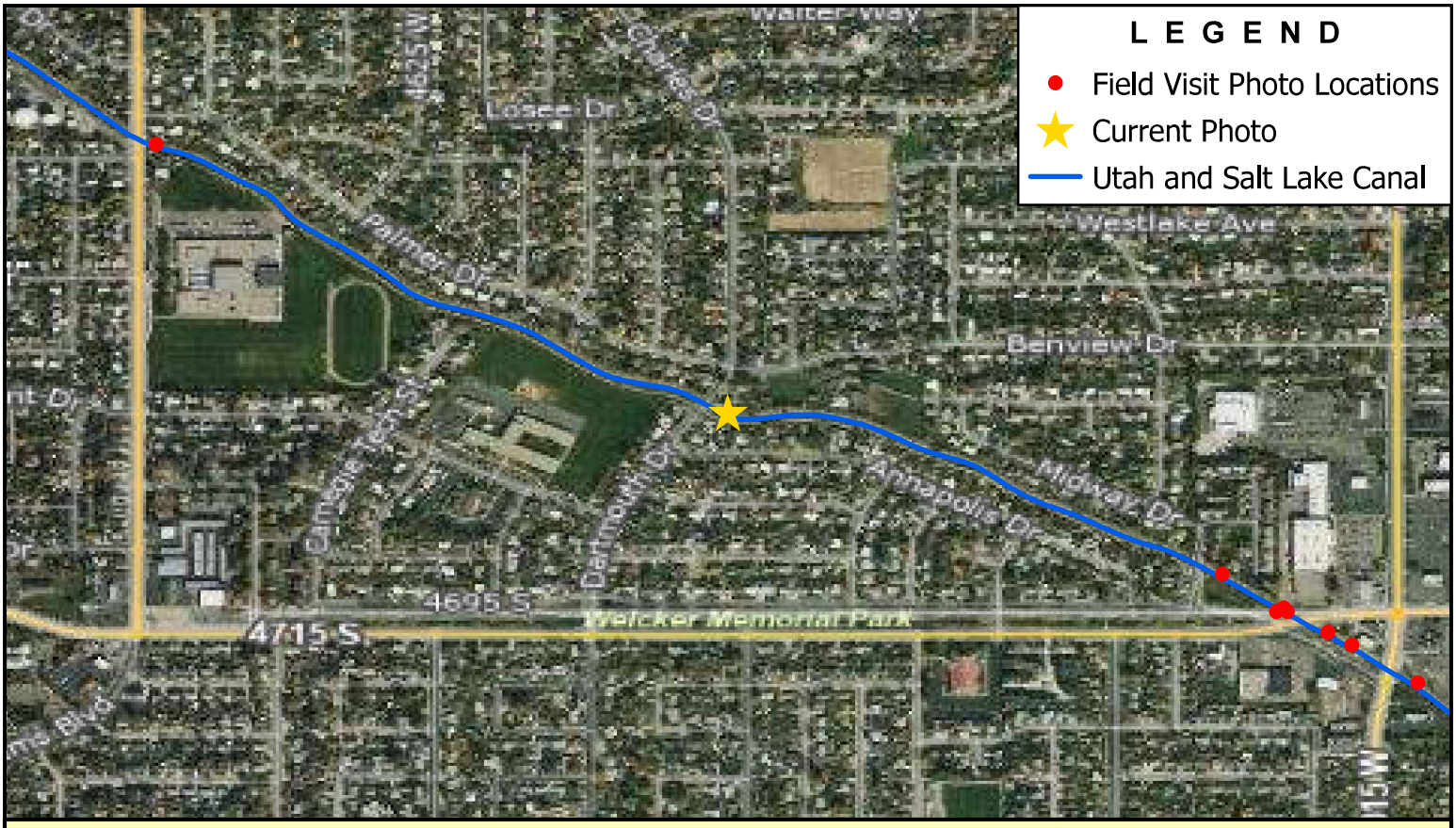
SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 3

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022



Note: Dartmouth Dr.

BOWEN COLLINS & ASSOCIATES

USLC-23

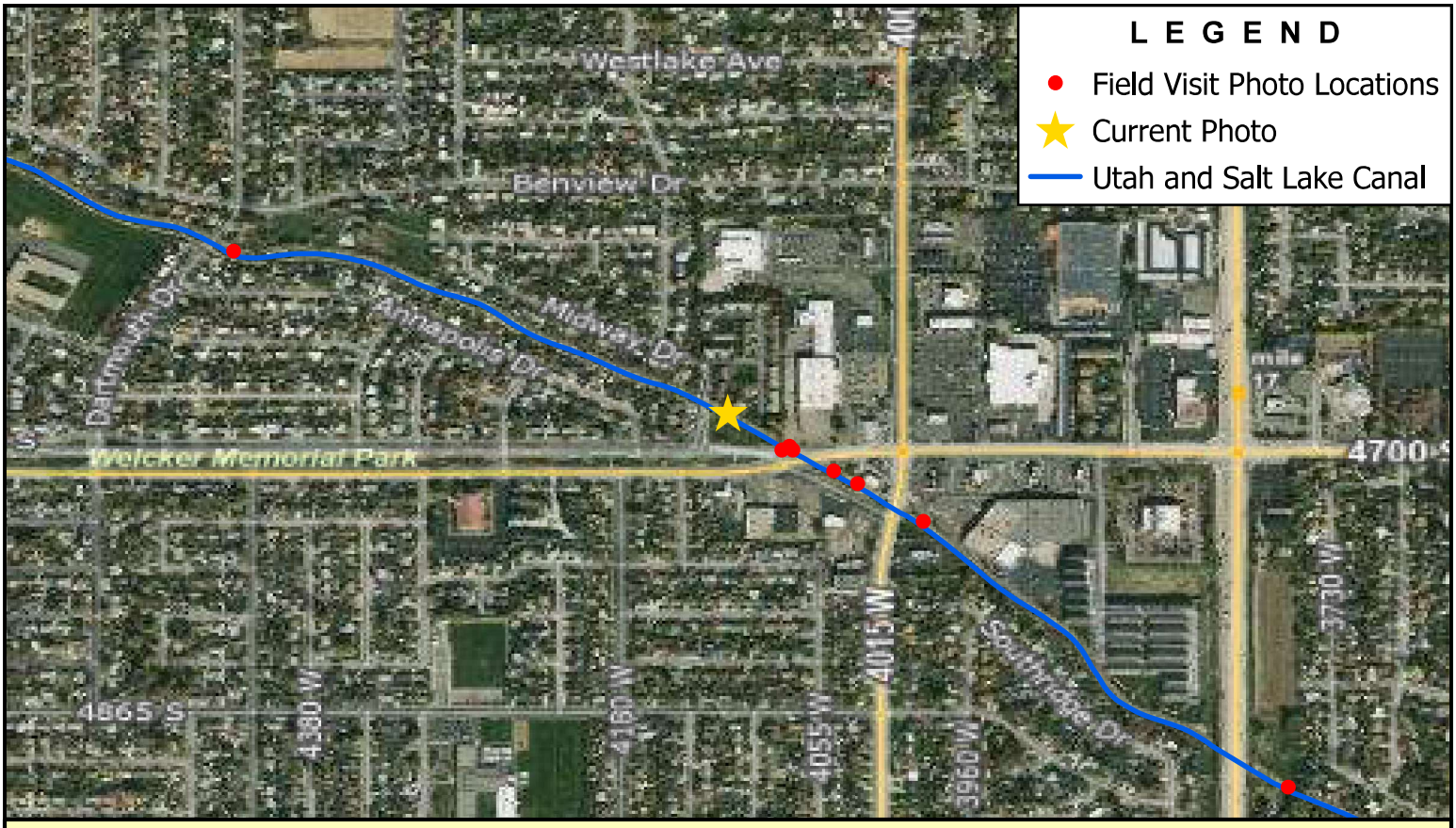
SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 4

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022



Note: Midway Dr.

BOWEN COLLINS & ASSOCIATES

USLC-24

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 5

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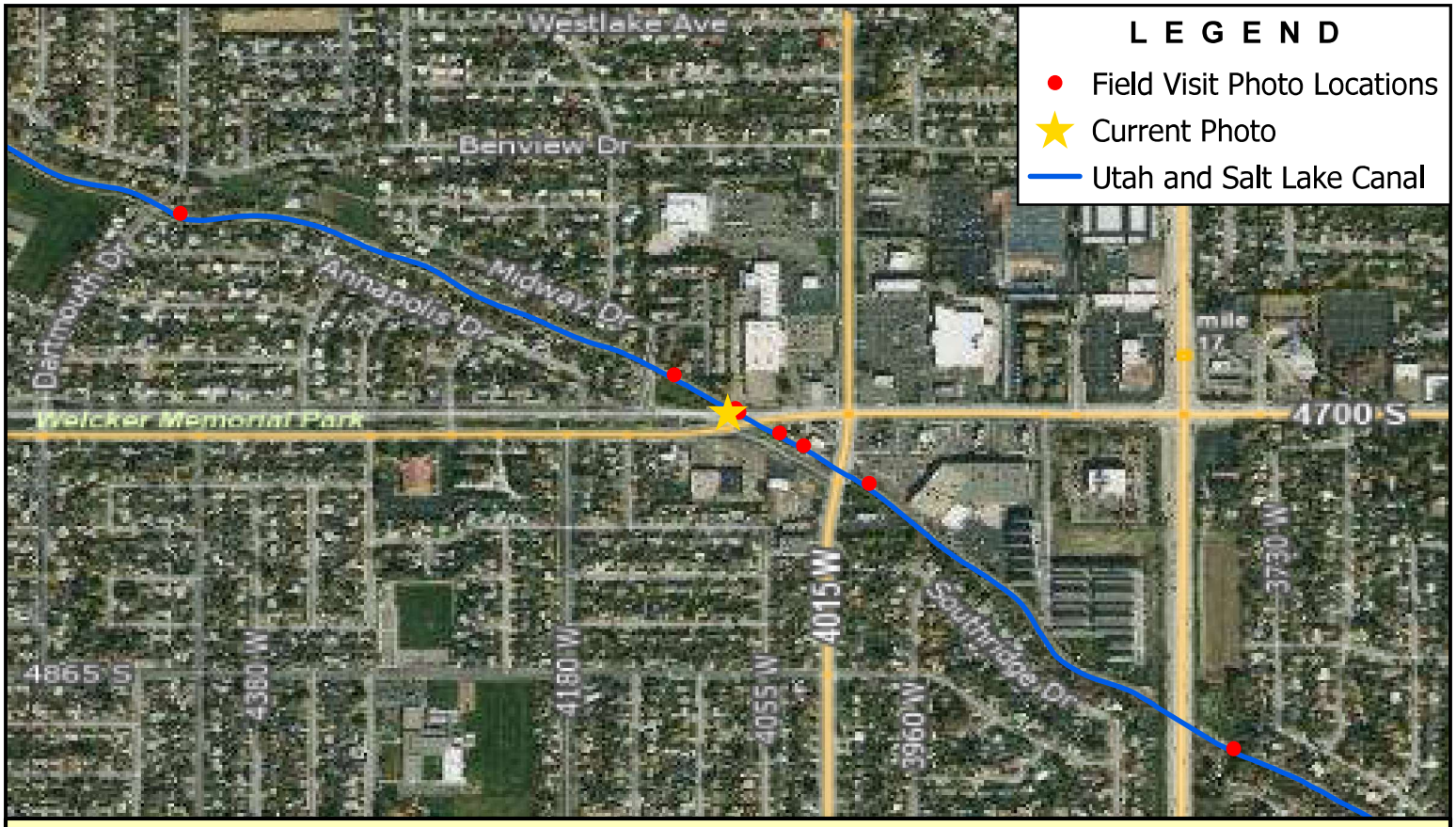


Note: 4700 South Dumpout

BOWEN COLLINS & ASSOCIATES

USLC-26

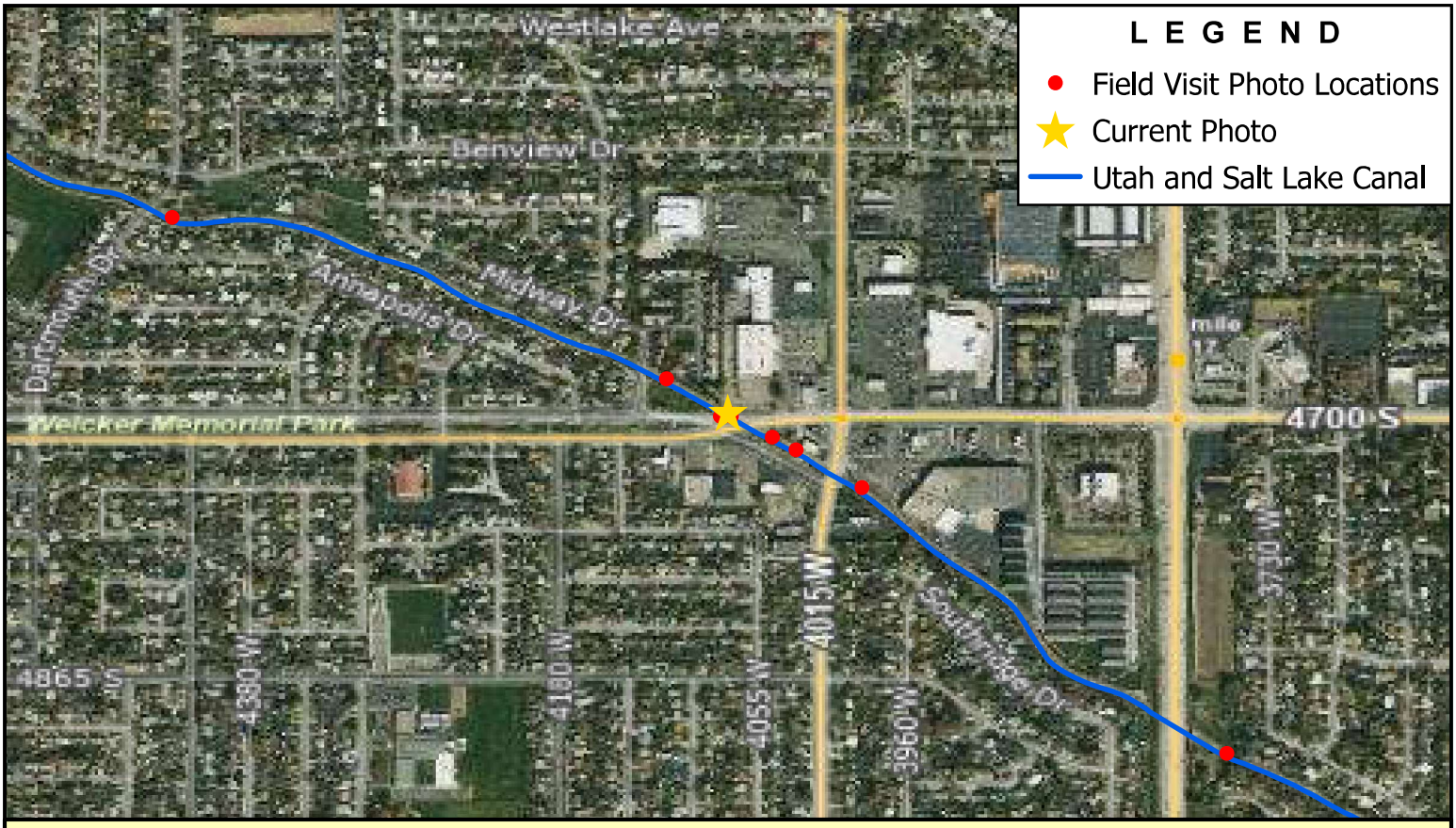
SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 6

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022



Note: 4700 South Access Bridge

BOWEN COLLINS & ASSOCIATES

USLC-27

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 7

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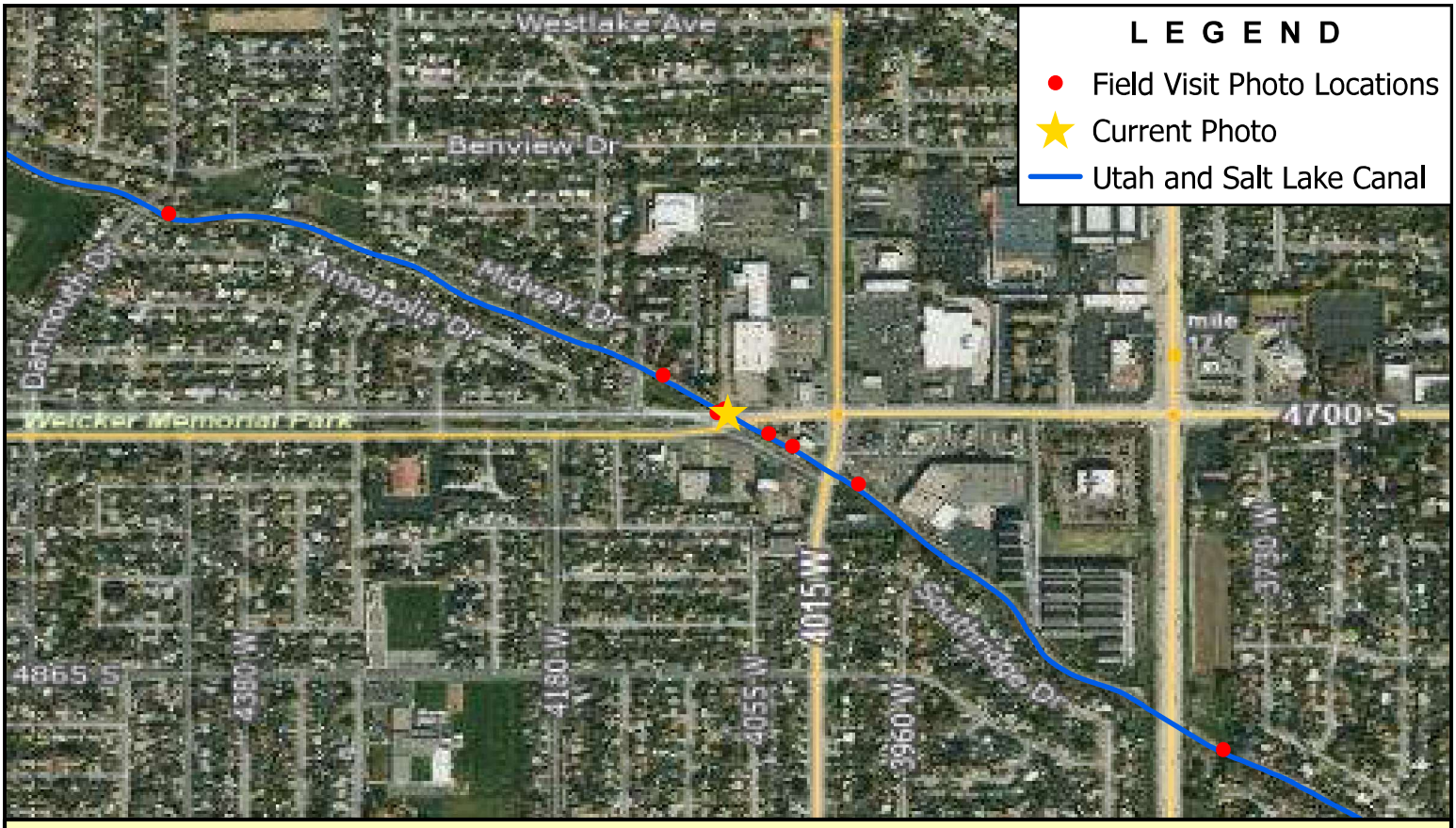


Note: 4700 South Control Structure

BOWEN COLLINS & ASSOCIATES

USLC-25

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 8

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: 4700 South

BOWEN COLLINS & ASSOCIATES

USLC-28

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 9

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: 4715 South

BOWEN COLLINS & ASSOCIATES	USLC-29	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 10

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: 4000 West

BOWEN COLLINS & ASSOCIATES	USLC-30	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 11

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: Bangerter Hwy

BOWEN COLLINS & ASSOCIATES

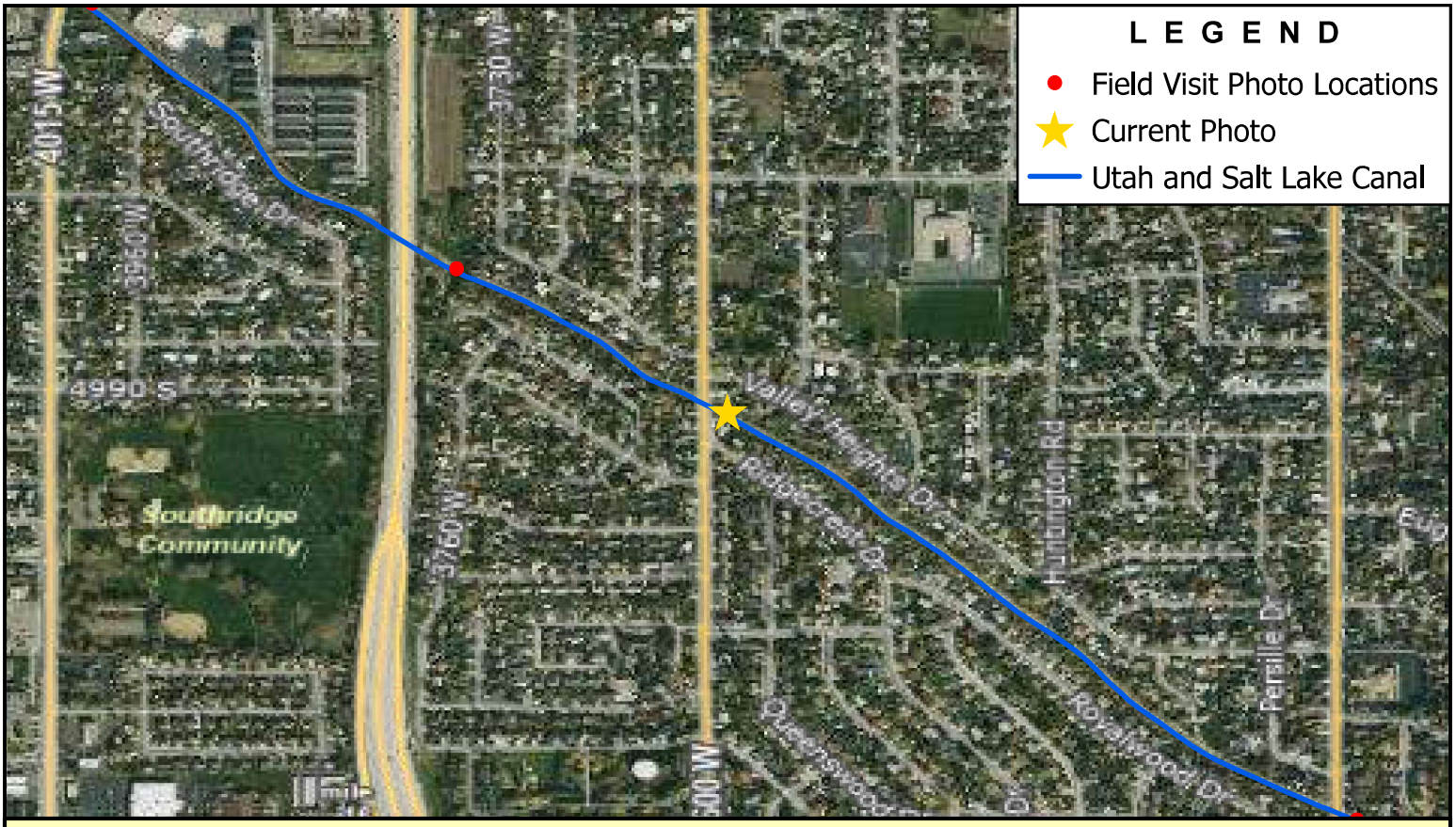
USLC-31

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 12



Note: 3600 West

BOWEN COLLINS & ASSOCIATES

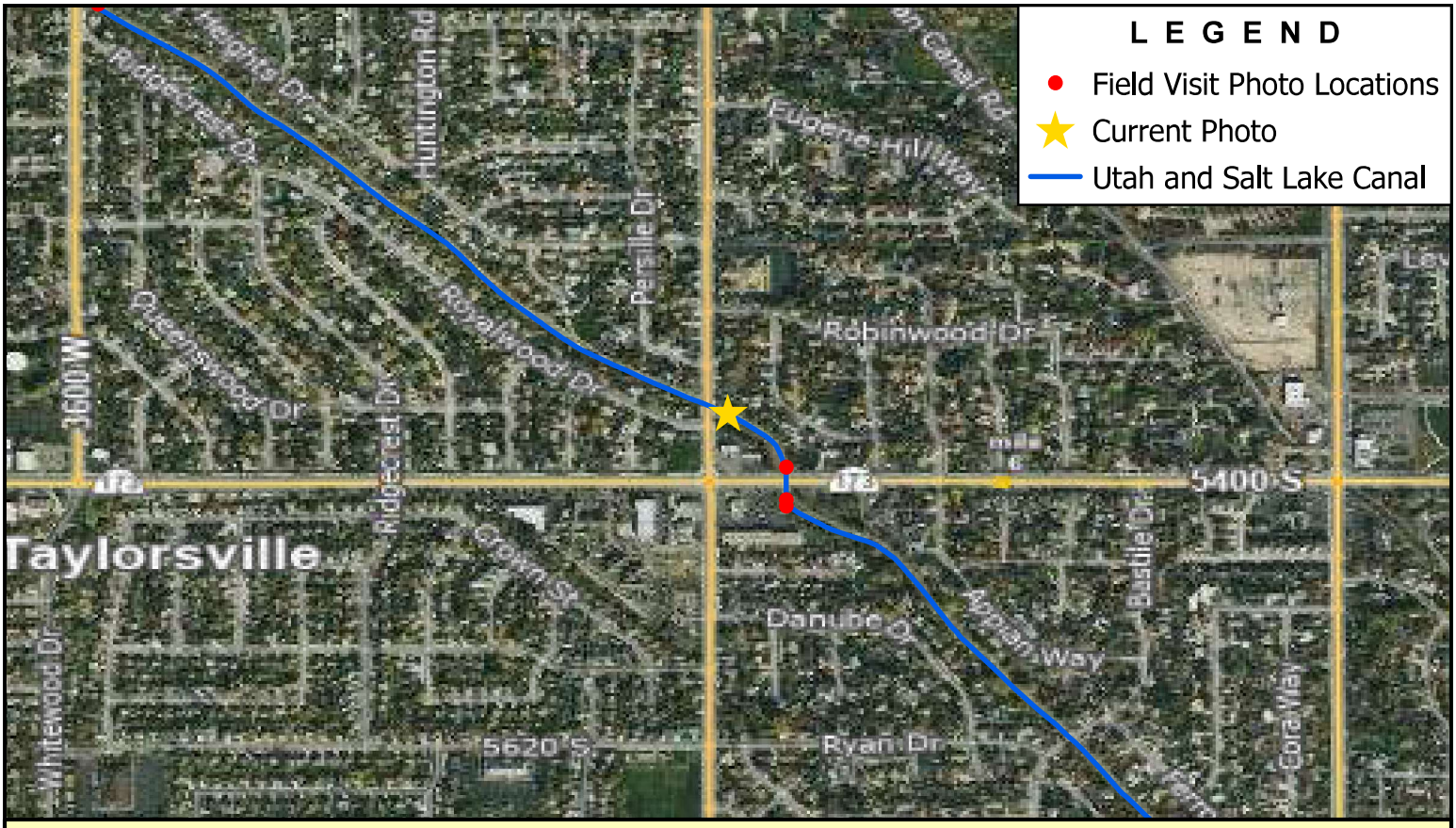
USLC-32

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 13



Note: 3200 West

BOWEN COLLINS & ASSOCIATES

USLC-33

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 14

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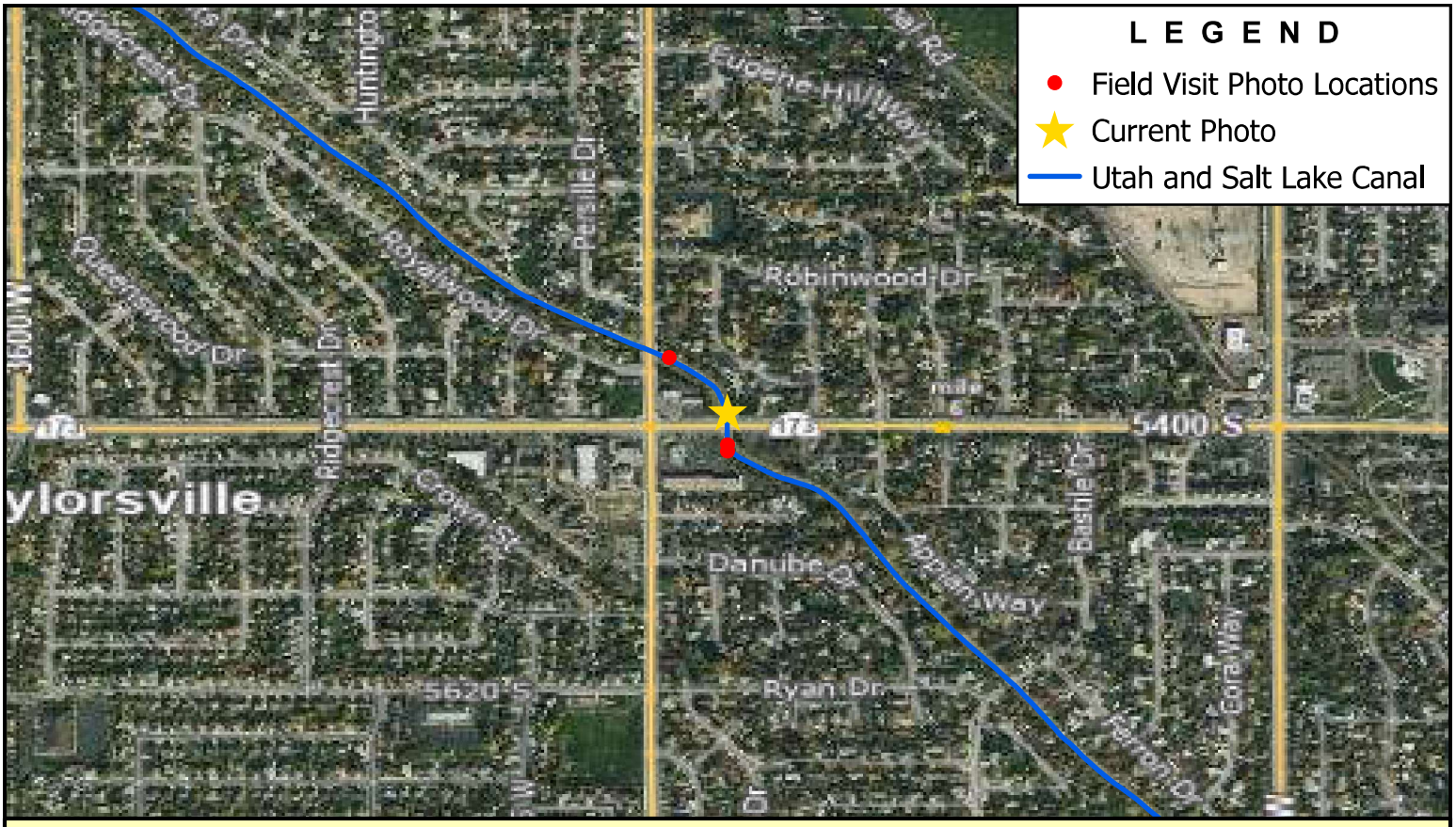


Note: 5400 South

BOWEN COLLINS & ASSOCIATES

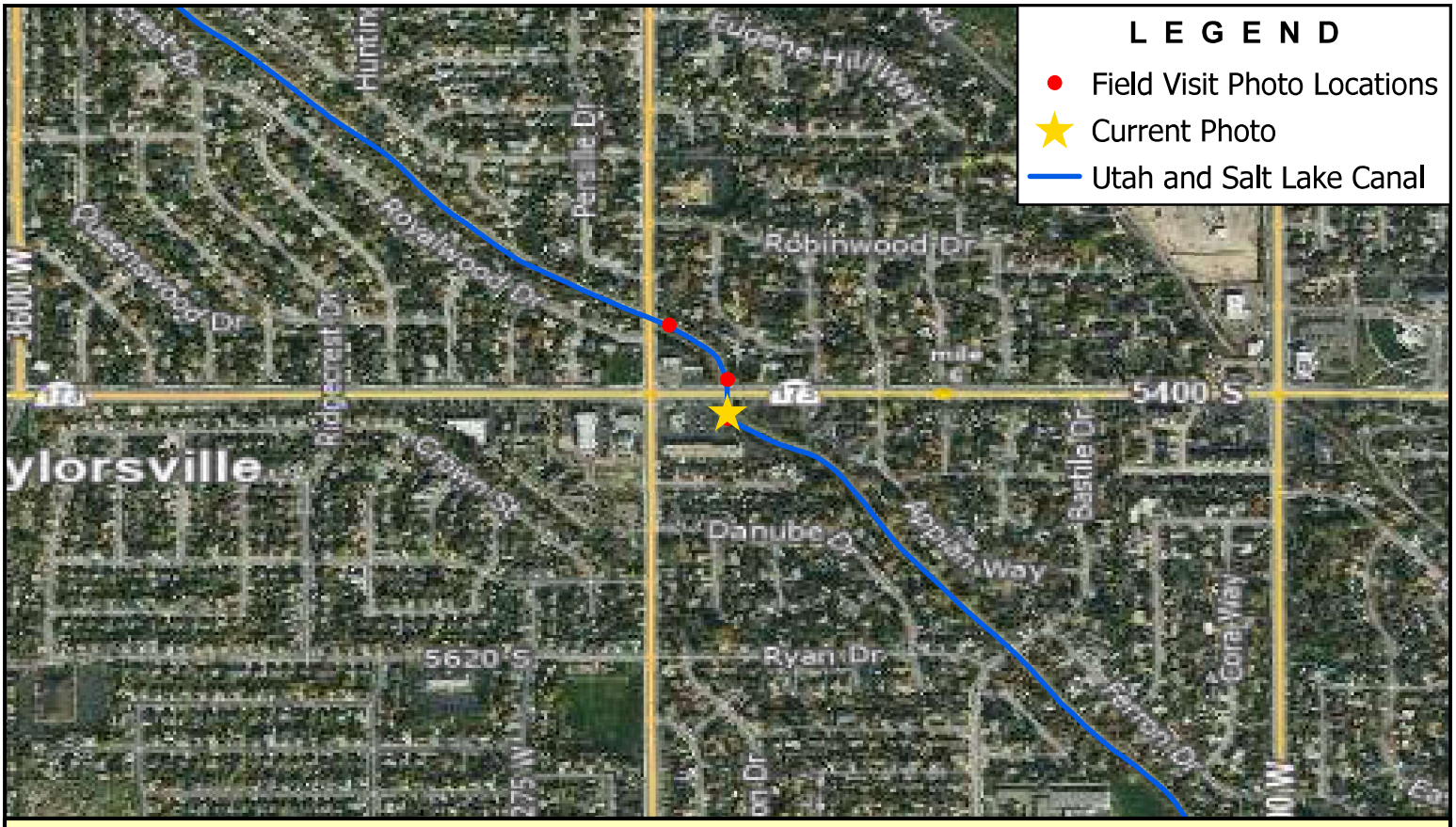
USLC-34

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 15



Note: 5400 South Control Structure

BOWEN COLLINS & ASSOCIATES	USLC-35	NORTH:	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 16

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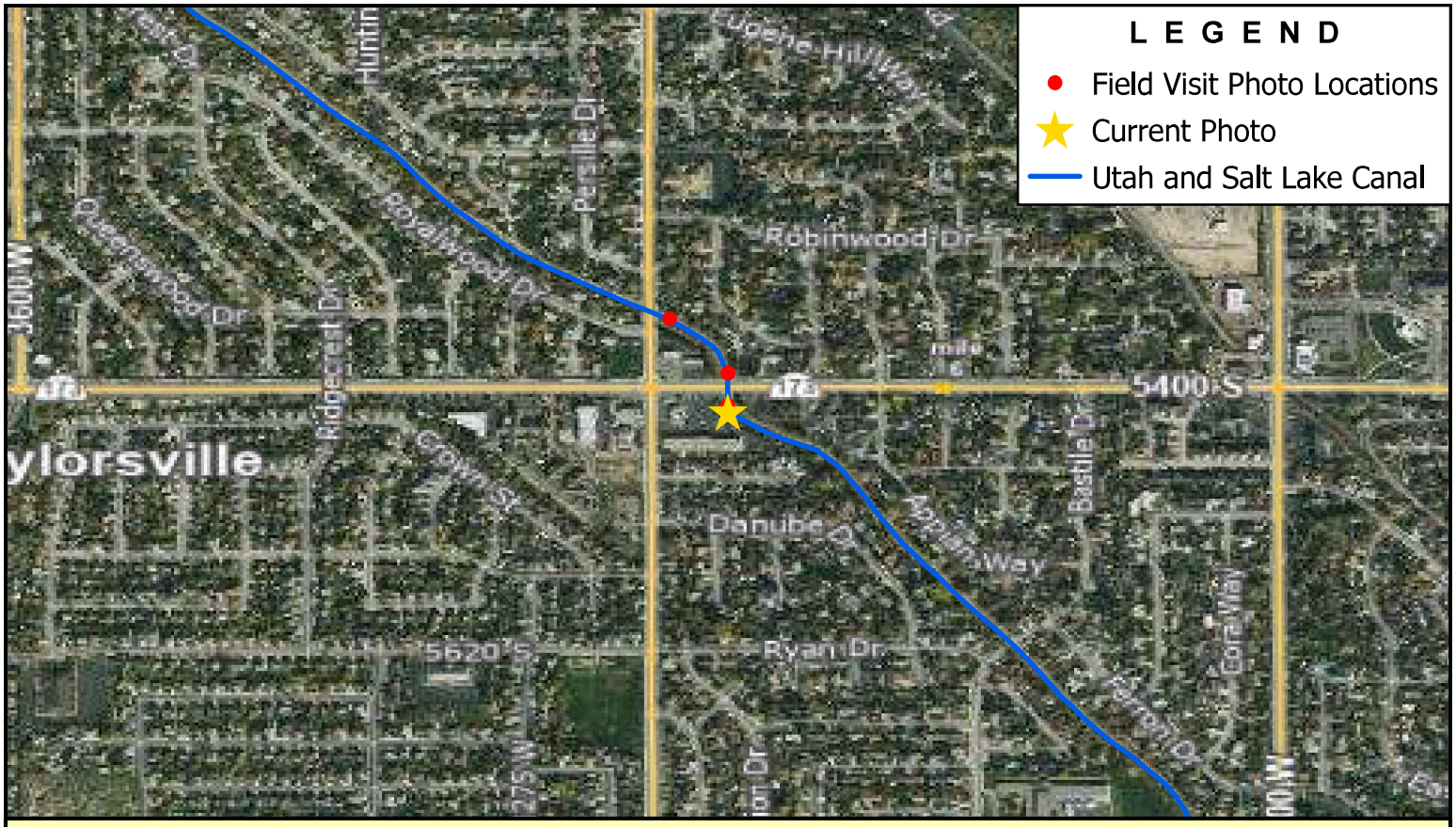

Note: 5400 South Dumpout

BOWEN COLLINS & ASSOCIATES

USLC-36

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 17

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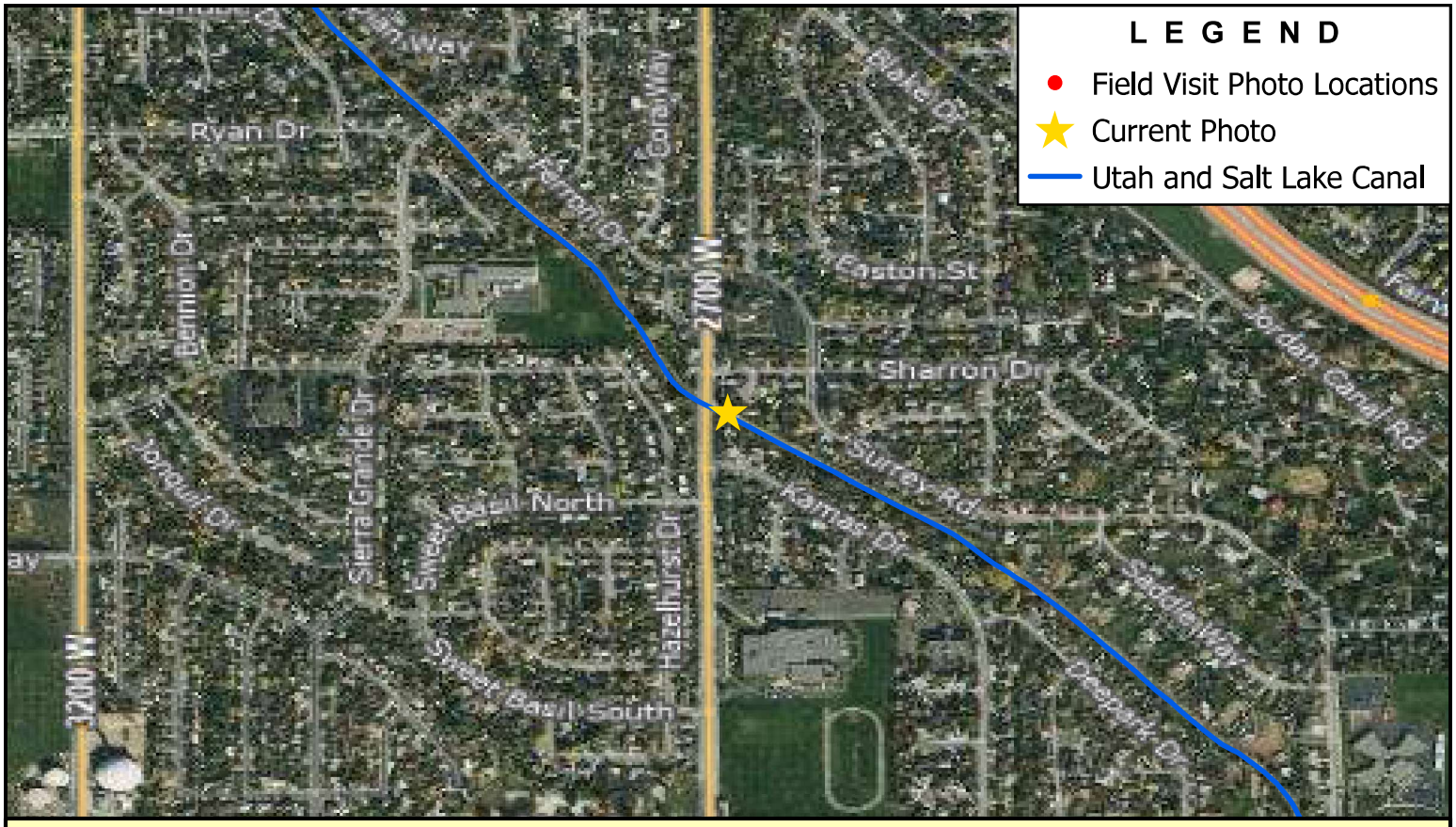


Note: Bastile Dr.

BOWEN COLLINS & ASSOCIATES

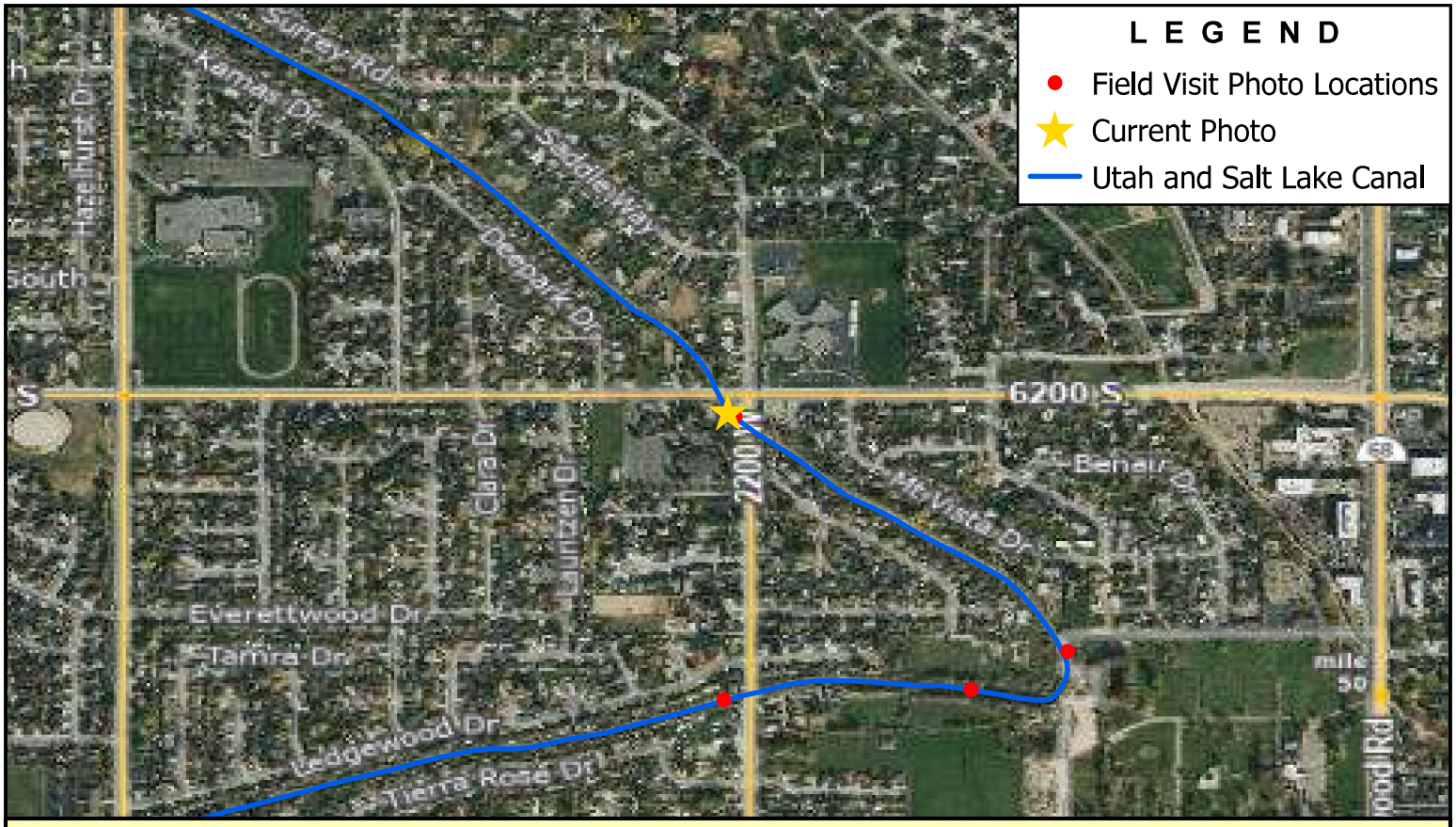
USLC-38

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 18



Note: 6200 South

BOWEN COLLINS & ASSOCIATES

USLC-39

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 19

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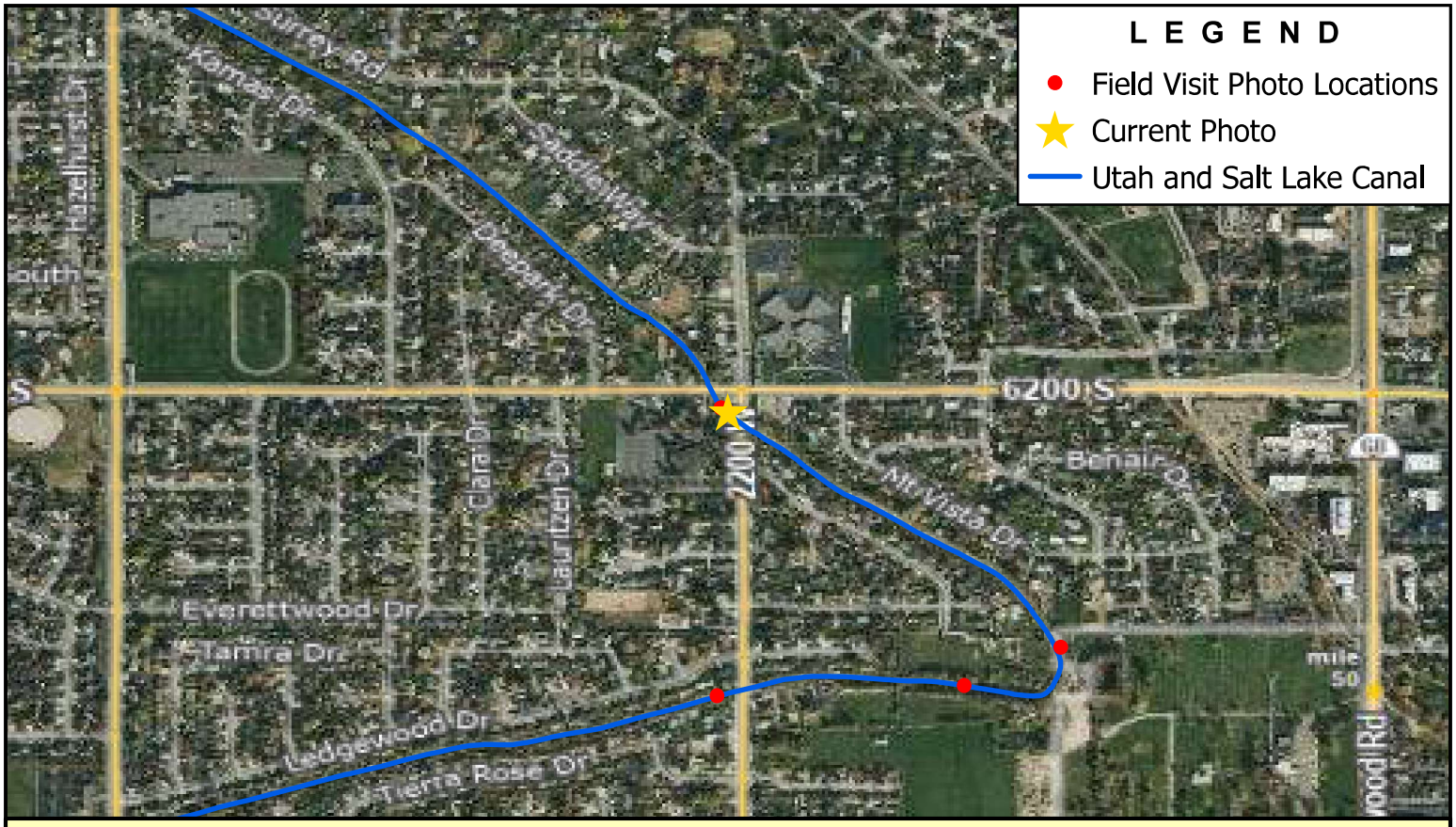


Note: 2200 West

BOWEN COLLINS & ASSOCIATES

USLC-40

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 20

Note: 2000 West Control Structure

BOWEN COLLINS & ASSOCIATES

USLC-41

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 21

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: 2050 West

BOWEN COLLINS & ASSOCIATES

USLC-42

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 22

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: 2200 West

BOWEN COLLINS & ASSOCIATES

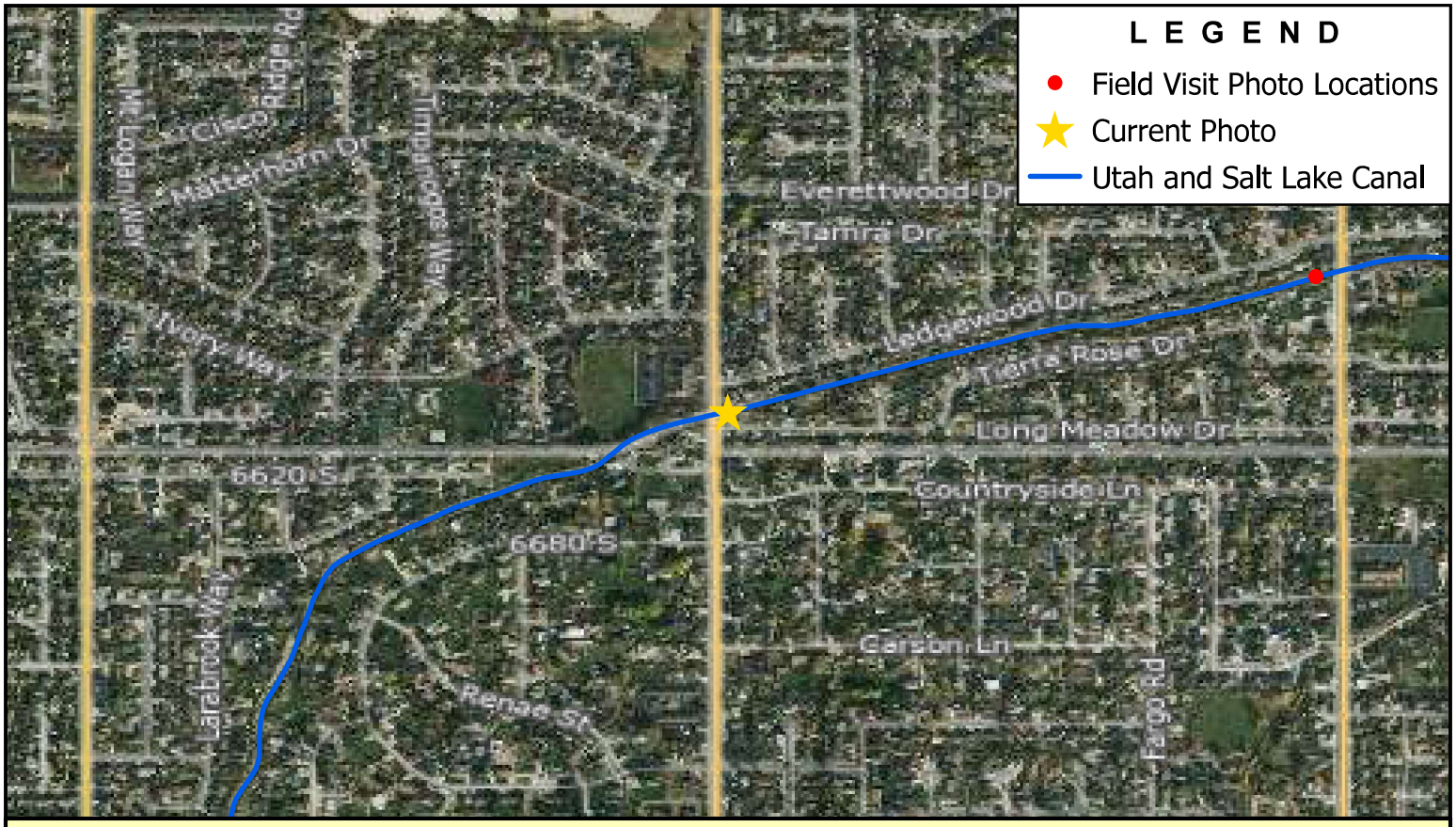
USLC-43

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 23



Note: 2700 West

BOWEN COLLINS & ASSOCIATES

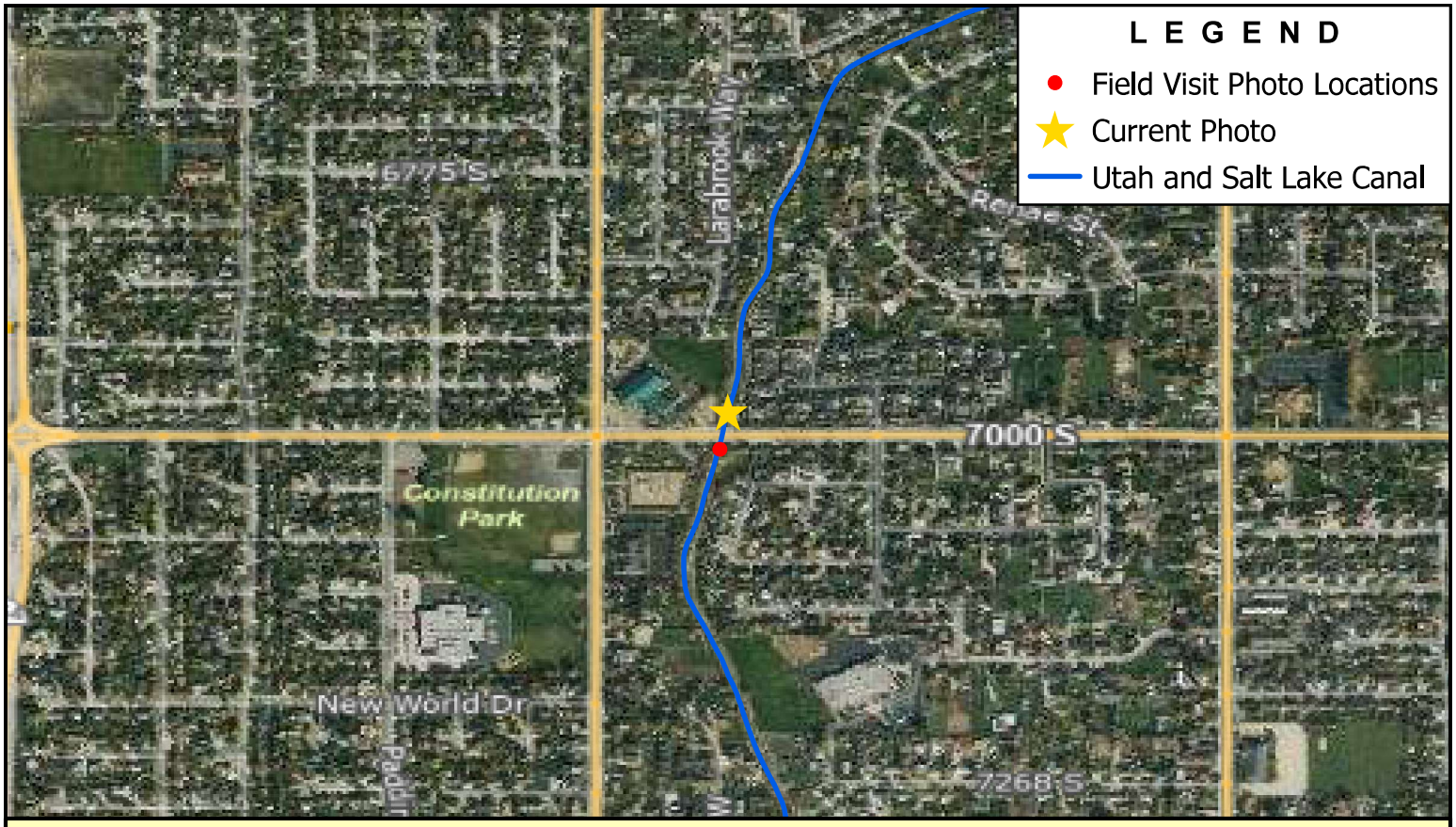
USLC-44

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 24



Note: 7000 South Control Structure

BOWEN COLLINS & ASSOCIATES

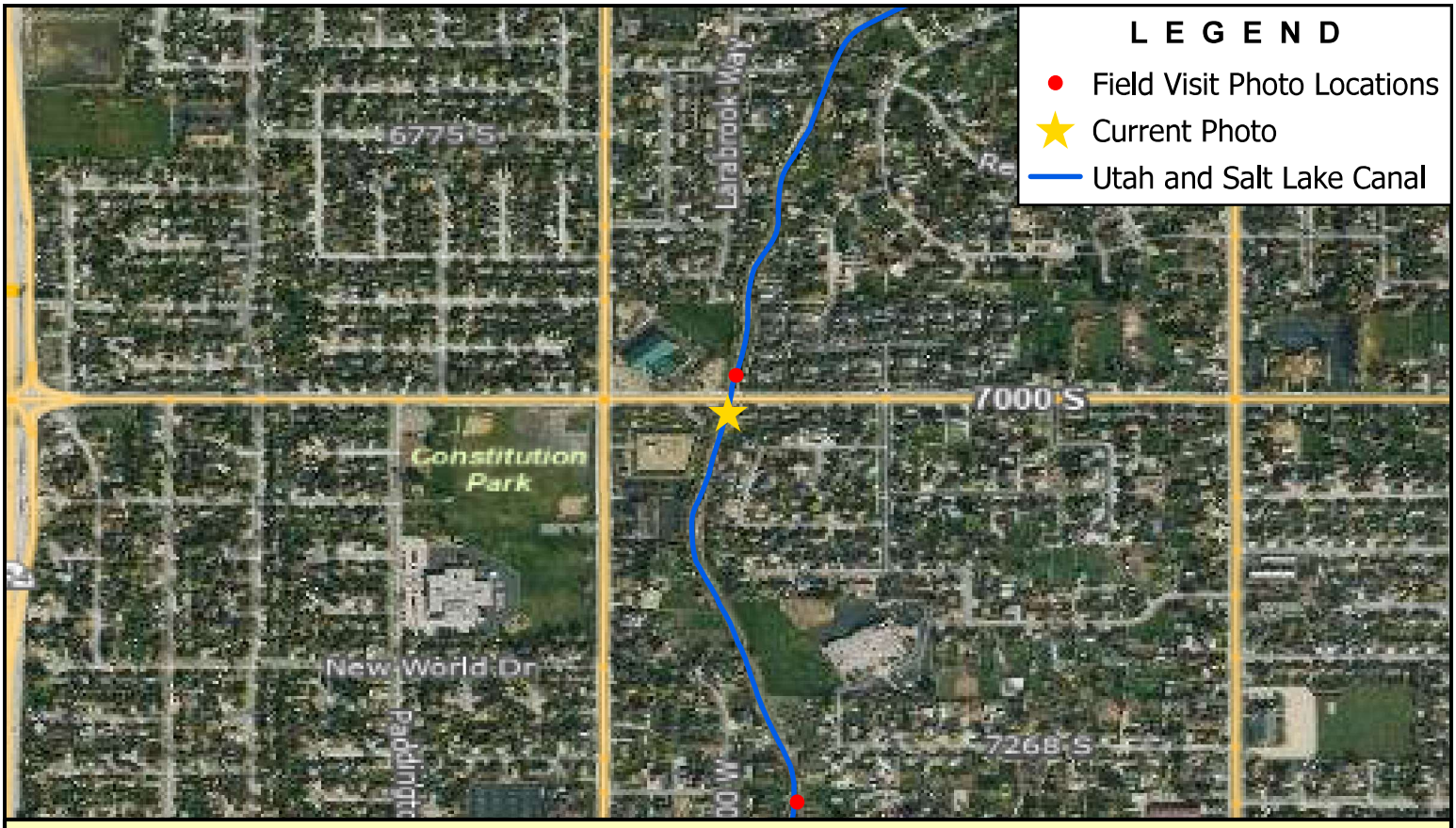
USLC-45

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 25



Note: 7000 South

BOWEN COLLINS & ASSOCIATES

USLC-46

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 26

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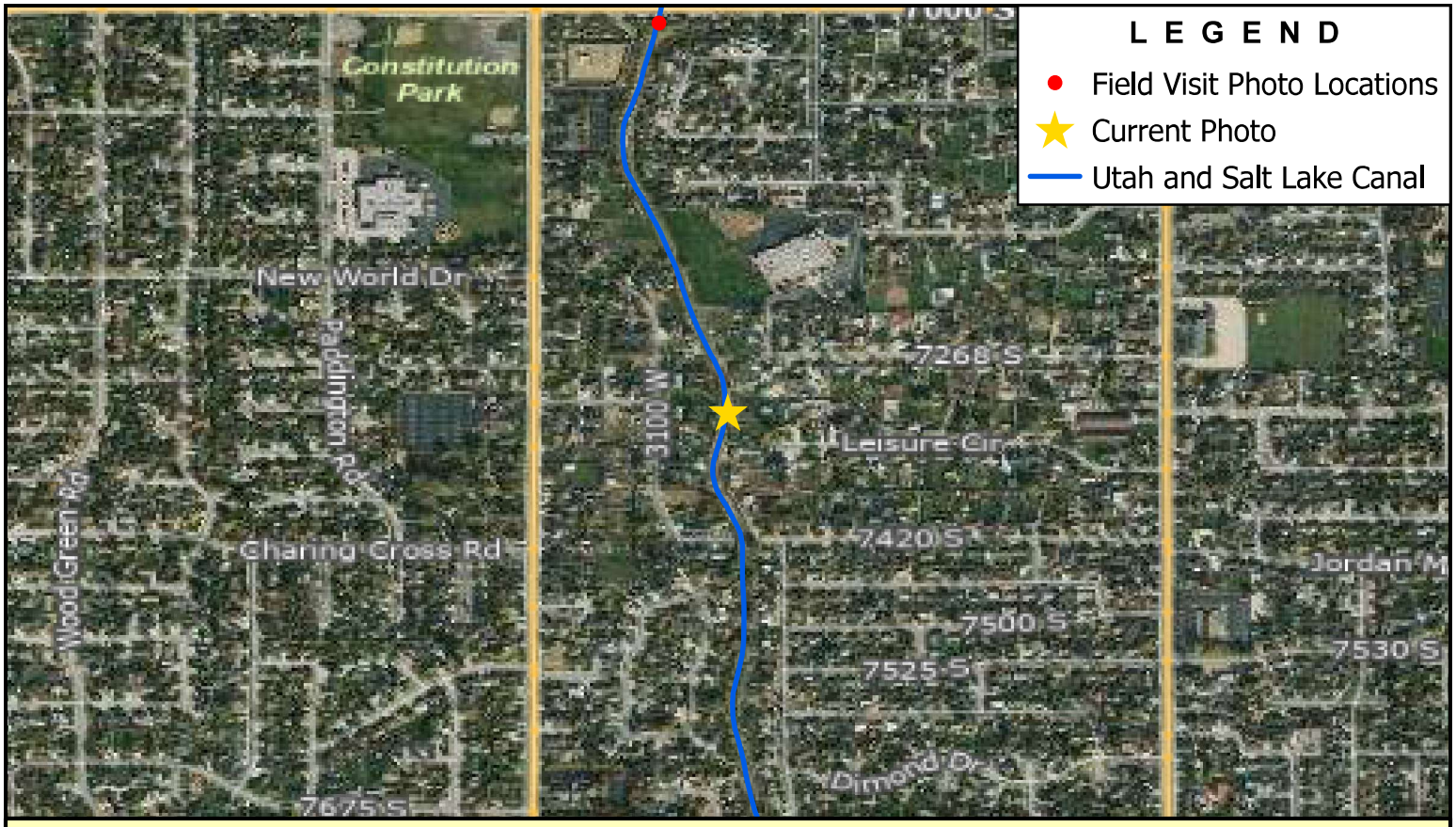

Note: 7325 South

BOWEN COLLINS & ASSOCIATES

USLC-47

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 27

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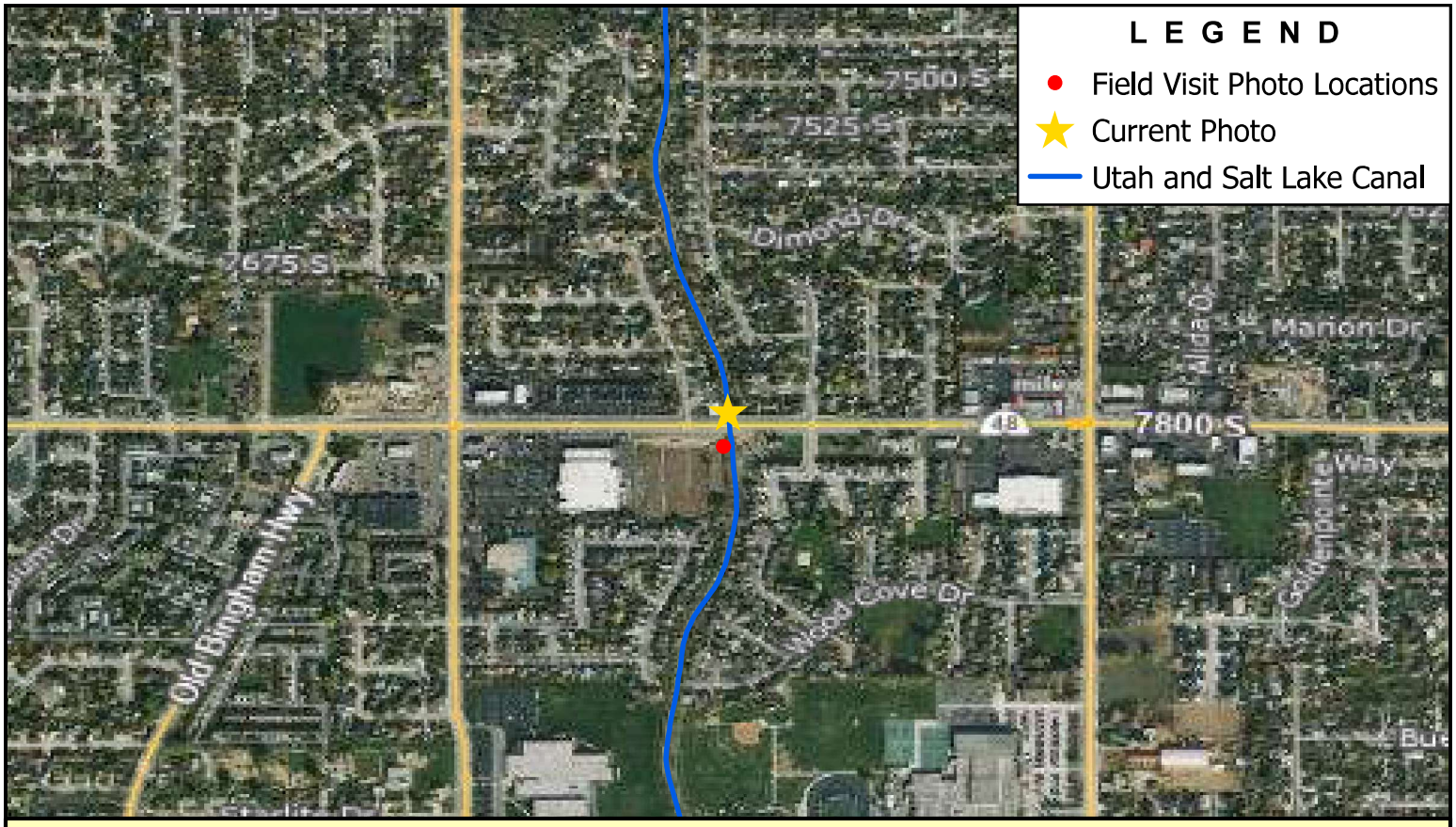
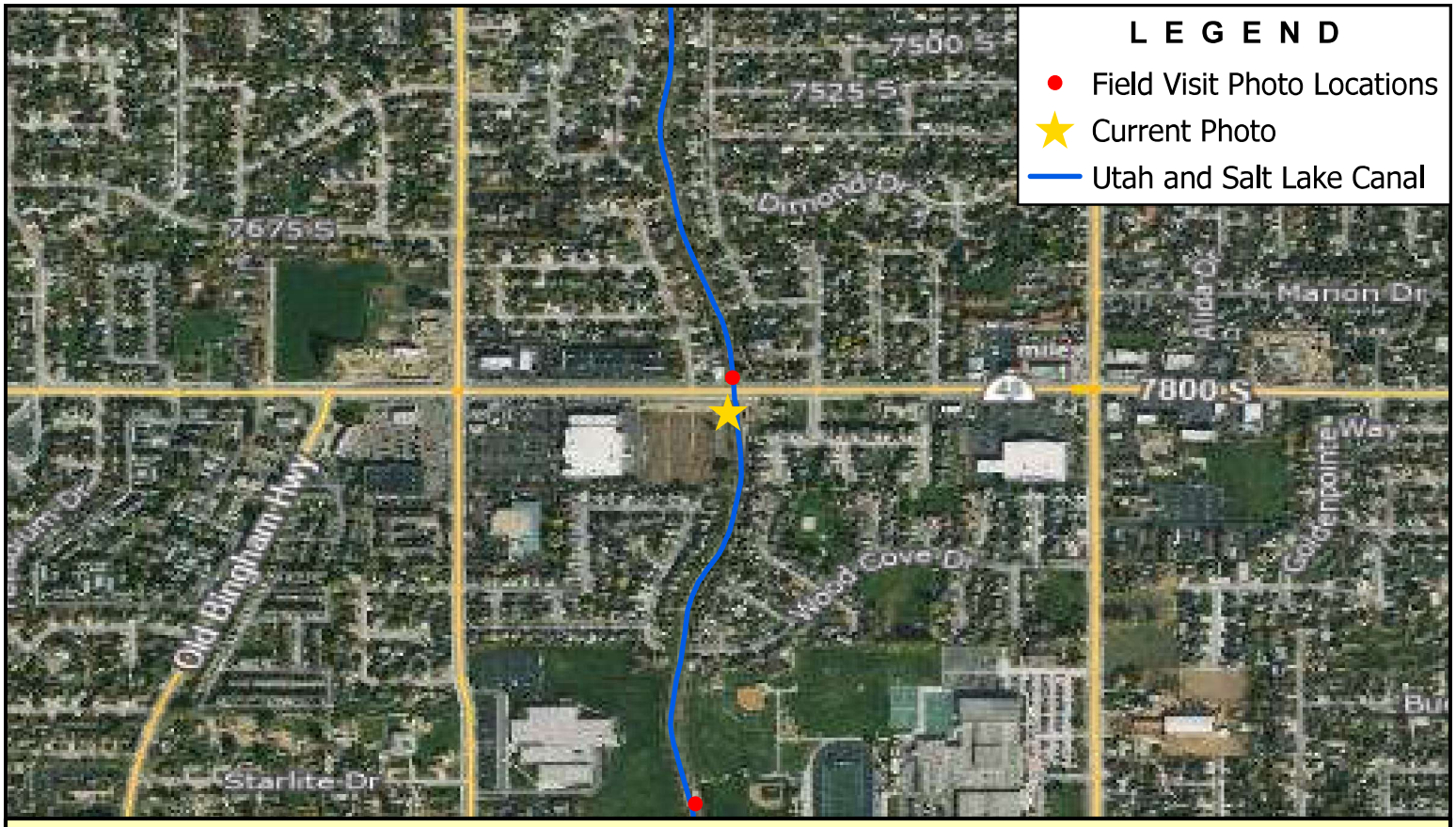


Note: 7800 South Dumpout

BOWEN COLLINS & ASSOCIATES	USLC-48	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 28

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022



Note: 7800 South

BOWEN COLLINS & ASSOCIATES

USLC-49

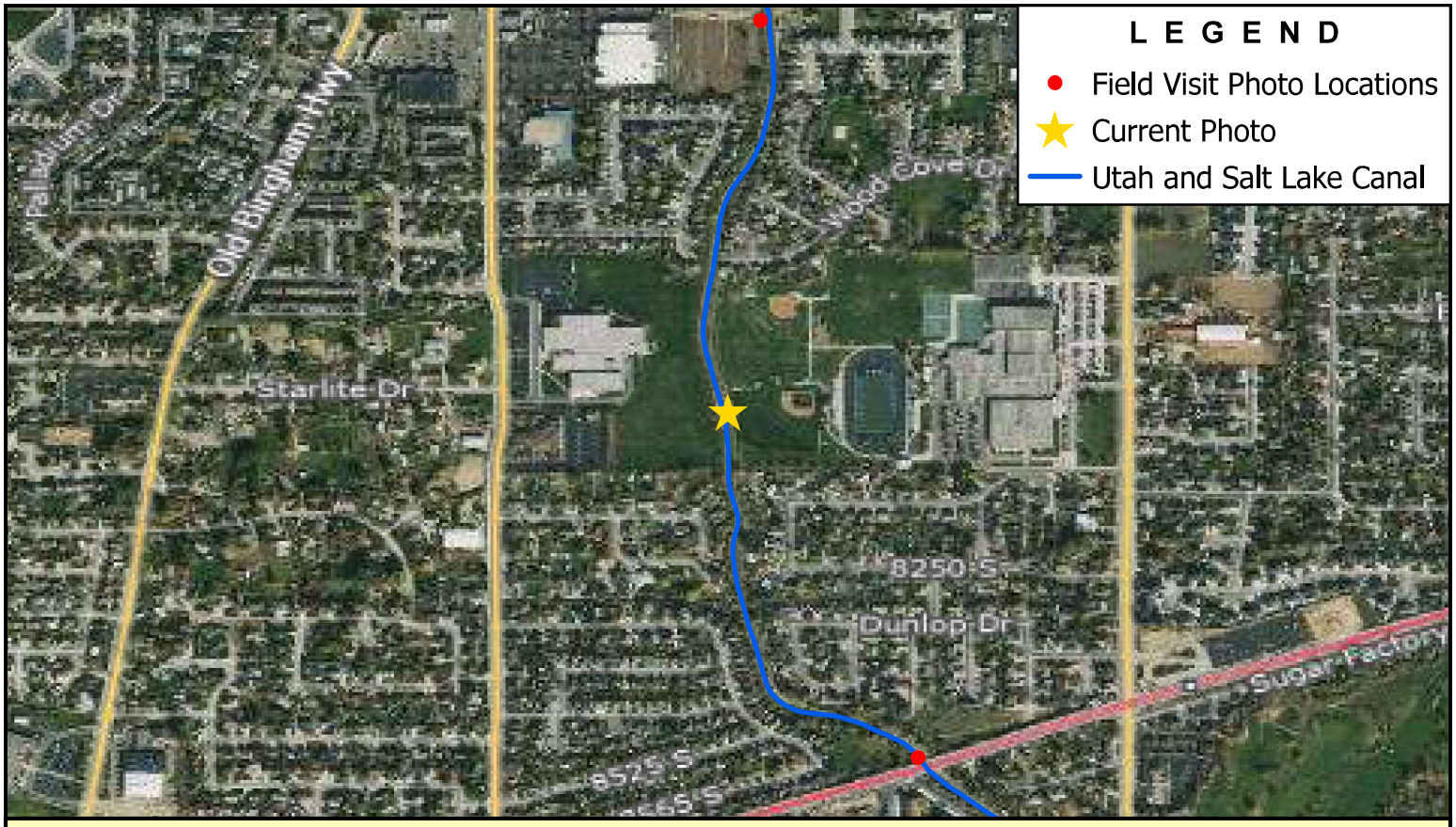
SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 29

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022



Note: 8250 South Control Structure

BOWEN COLLINS & ASSOCIATES

USLC-50

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 30

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: UTA Trax Red Line

BOWEN COLLINS & ASSOCIATES

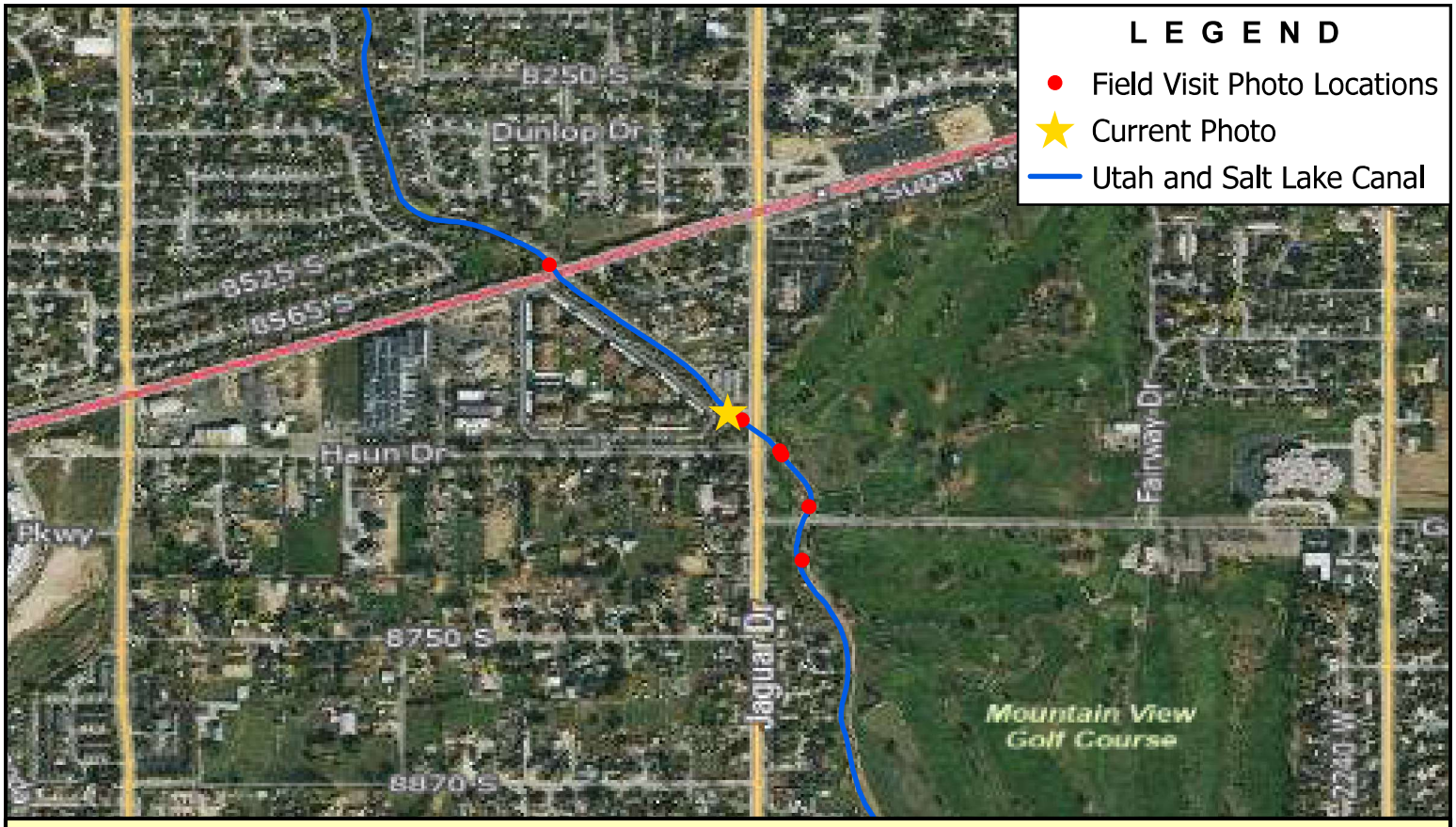
USLC-51

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 31



Note: 2700 West Control Strucutre

BOWEN COLLINS & ASSOCIATES

USLC-52

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 32

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: Bingham Creek Dumpout

BOWEN COLLINS & ASSOCIATES	USLC-53	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 33

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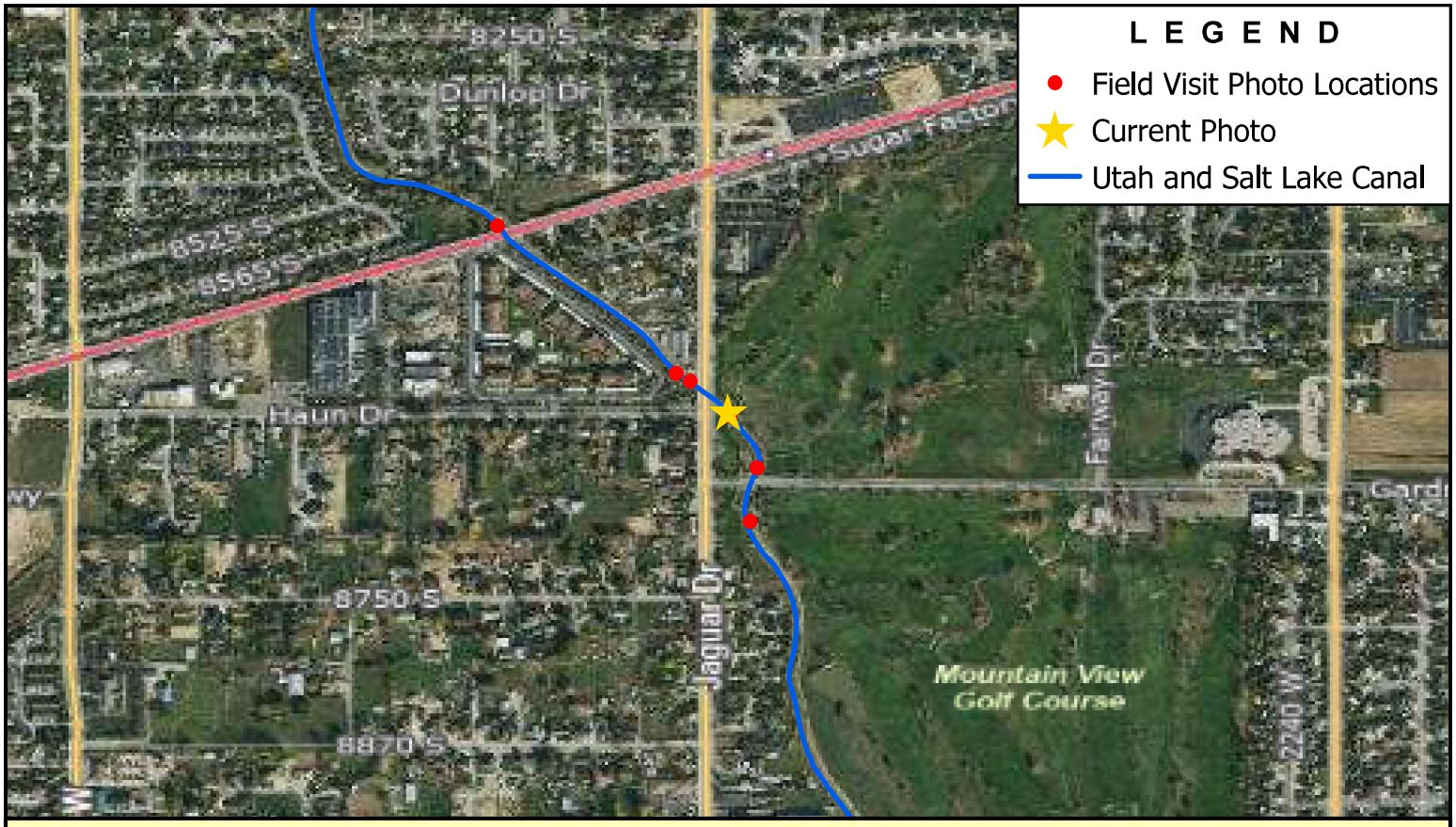


Note: 2700 West

BOWEN COLLINS & ASSOCIATES

USLC-54

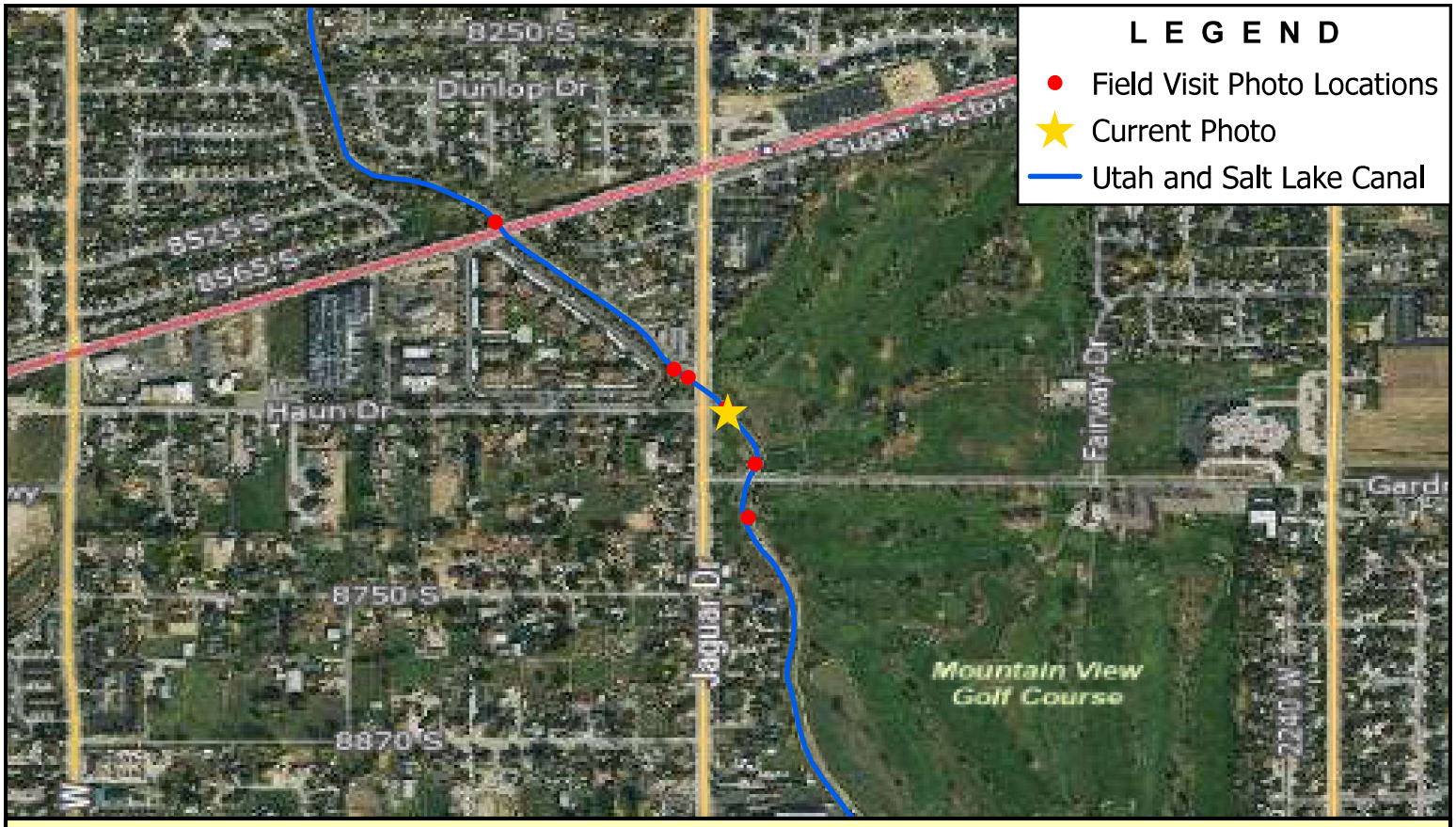
SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 34

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022



Note: Golf Course (8600 South)

BOWEN COLLINS & ASSOCIATES

USLC-55

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 35

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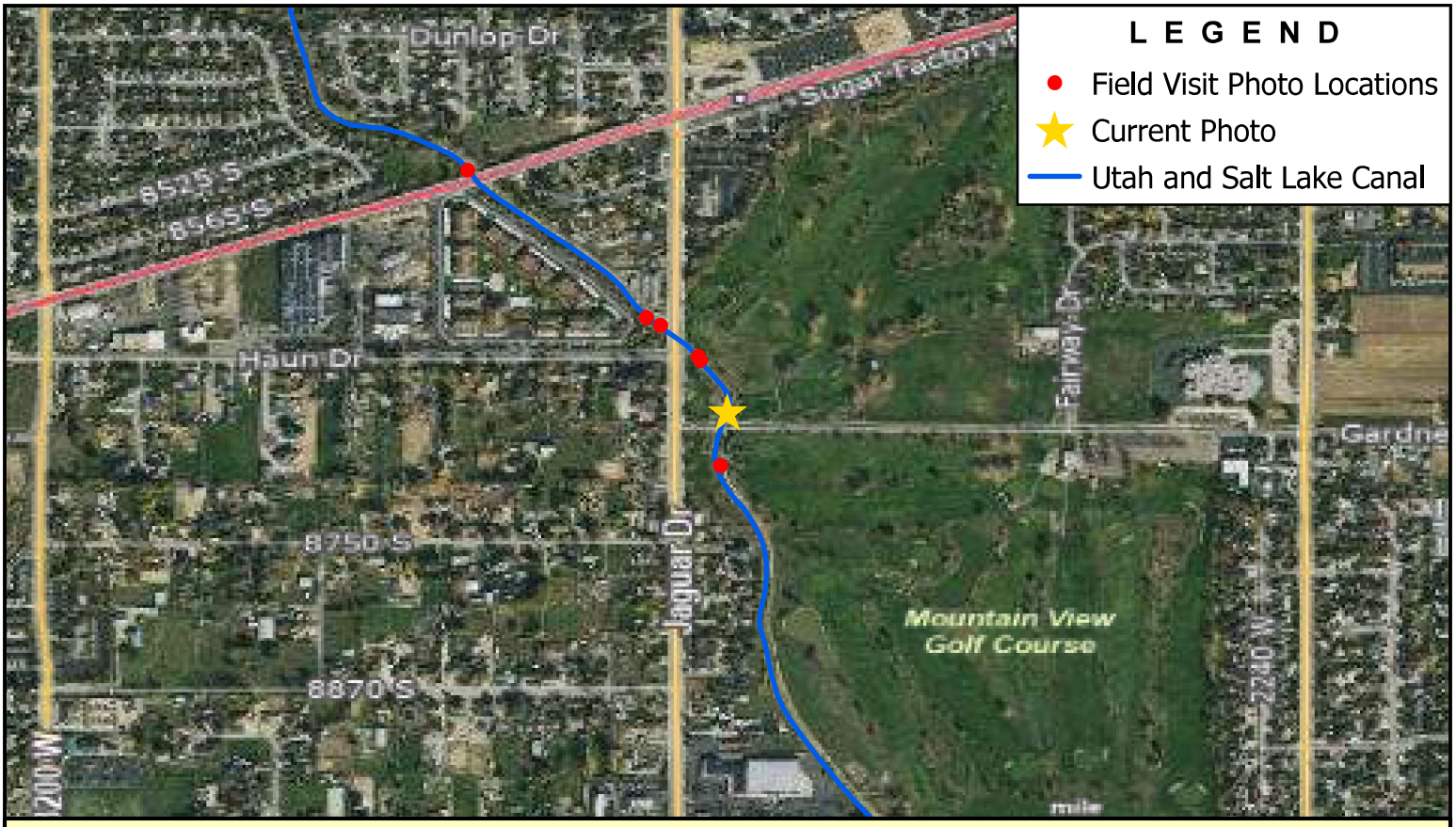


Note: Gardner Ln.

BOWEN COLLINS & ASSOCIATES

USLC-56

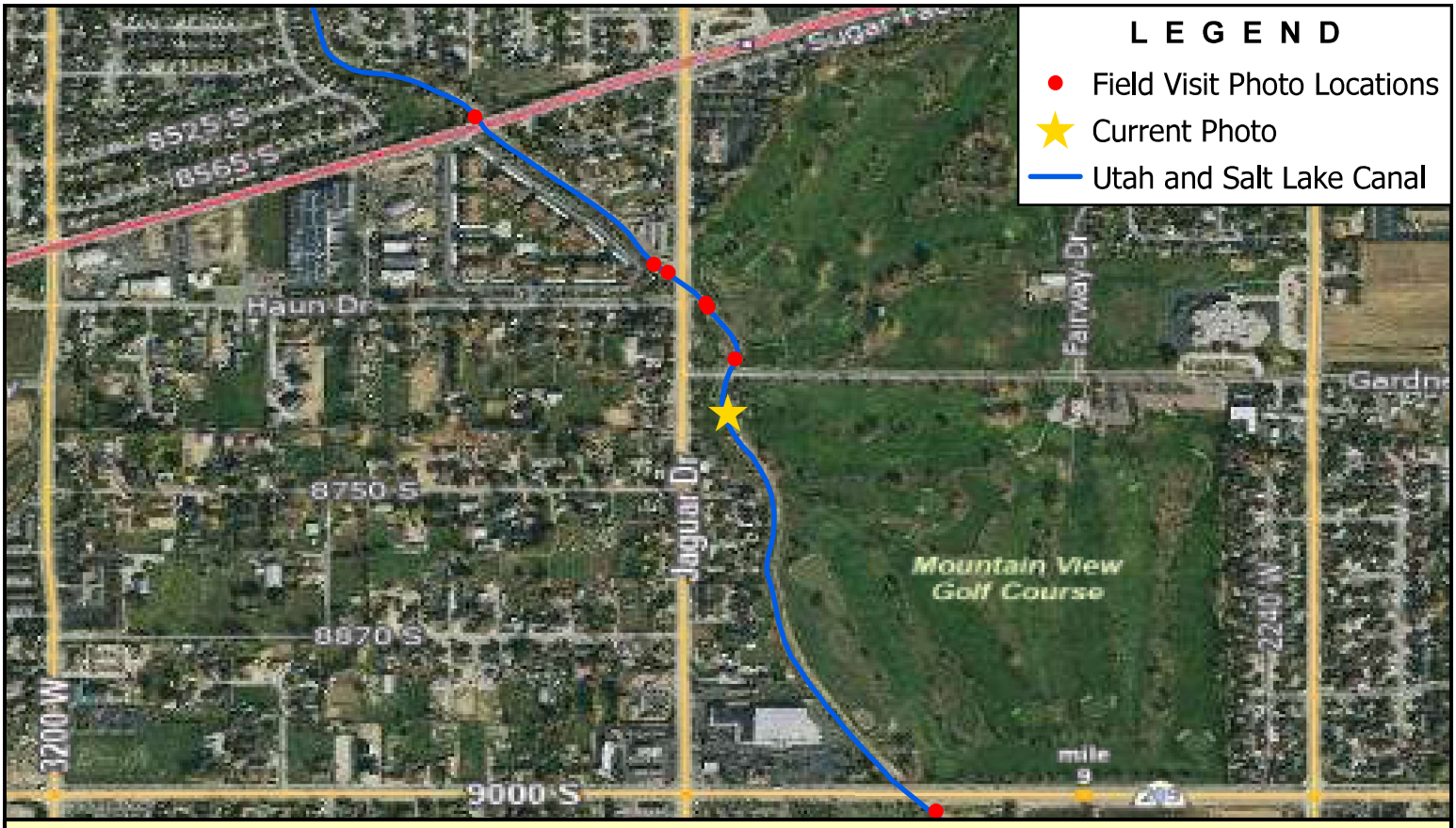
SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 36

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022



Note: Golf Course (8675 South)

BOWEN COLLINS & ASSOCIATES	USLC-57	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 37

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: 9000 South

BOWEN COLLINS & ASSOCIATES

USLC-58

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 38

Note: 9150 South Control Structure

BOWEN COLLINS & ASSOCIATES

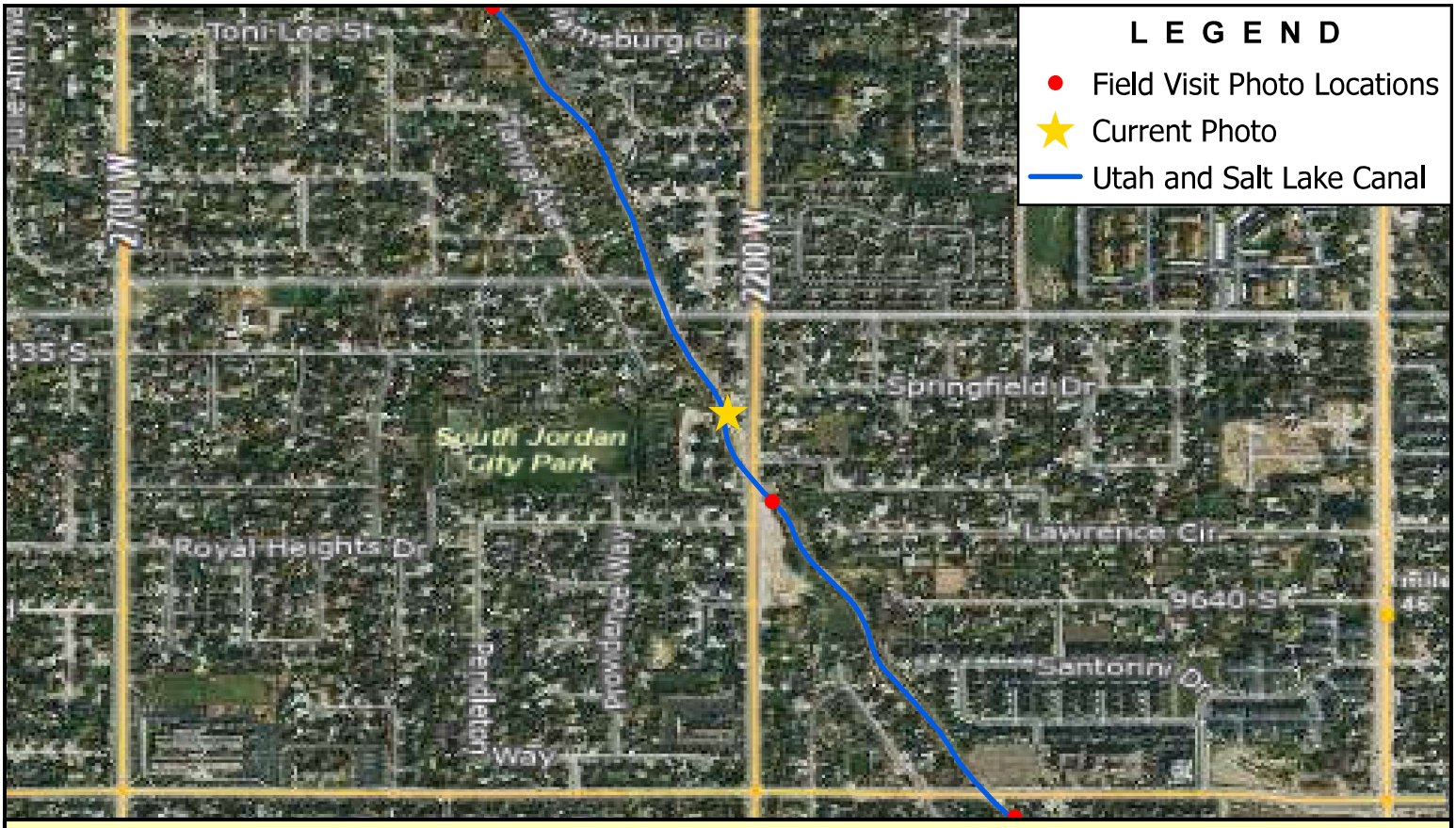
USLC-59

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 39



Note: 9450 South Control Structure

BOWEN COLLINS & ASSOCIATES

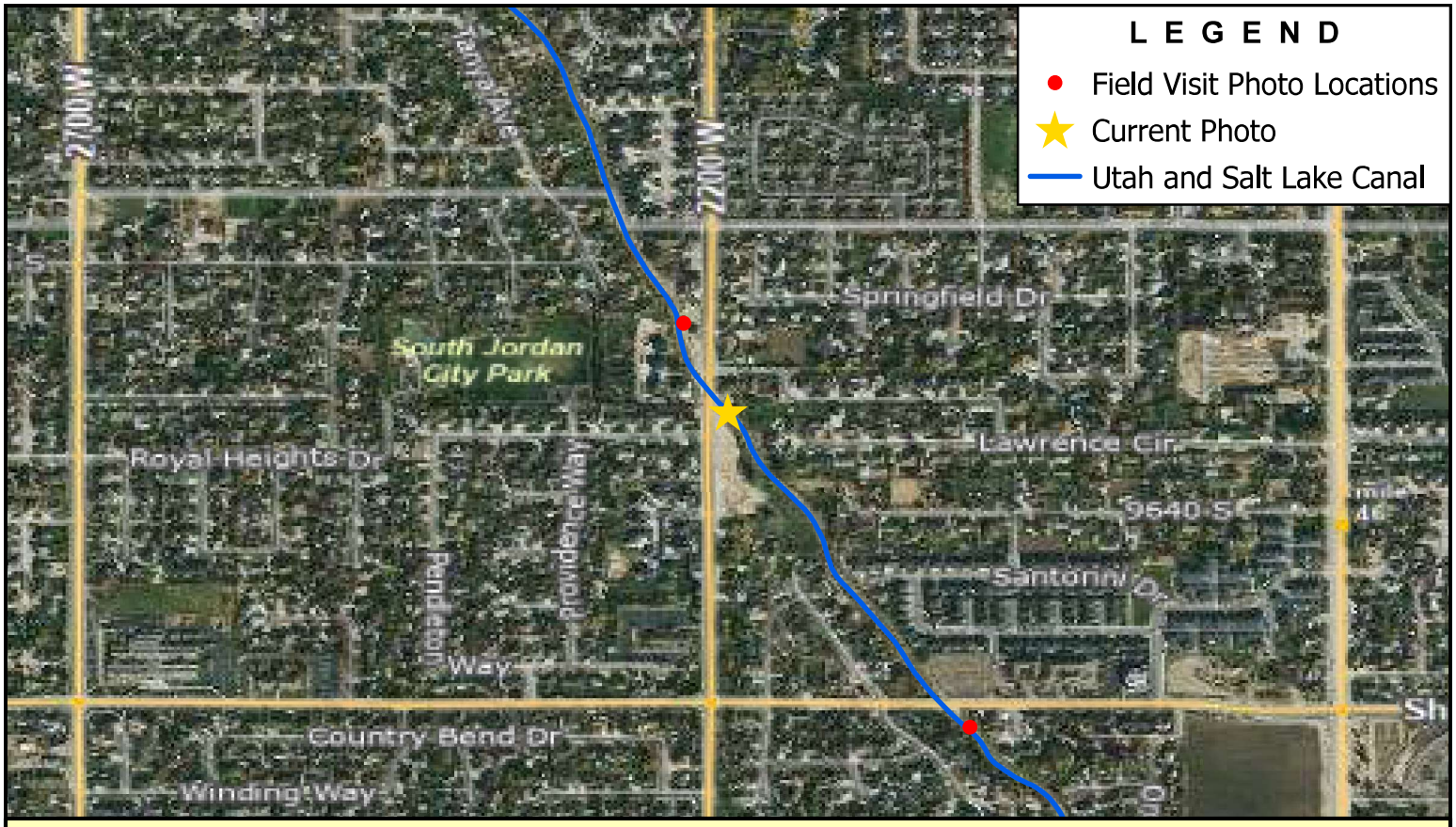
USLC-60

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 40



Note: 2200 West

BOWEN COLLINS & ASSOCIATES

USLC-61

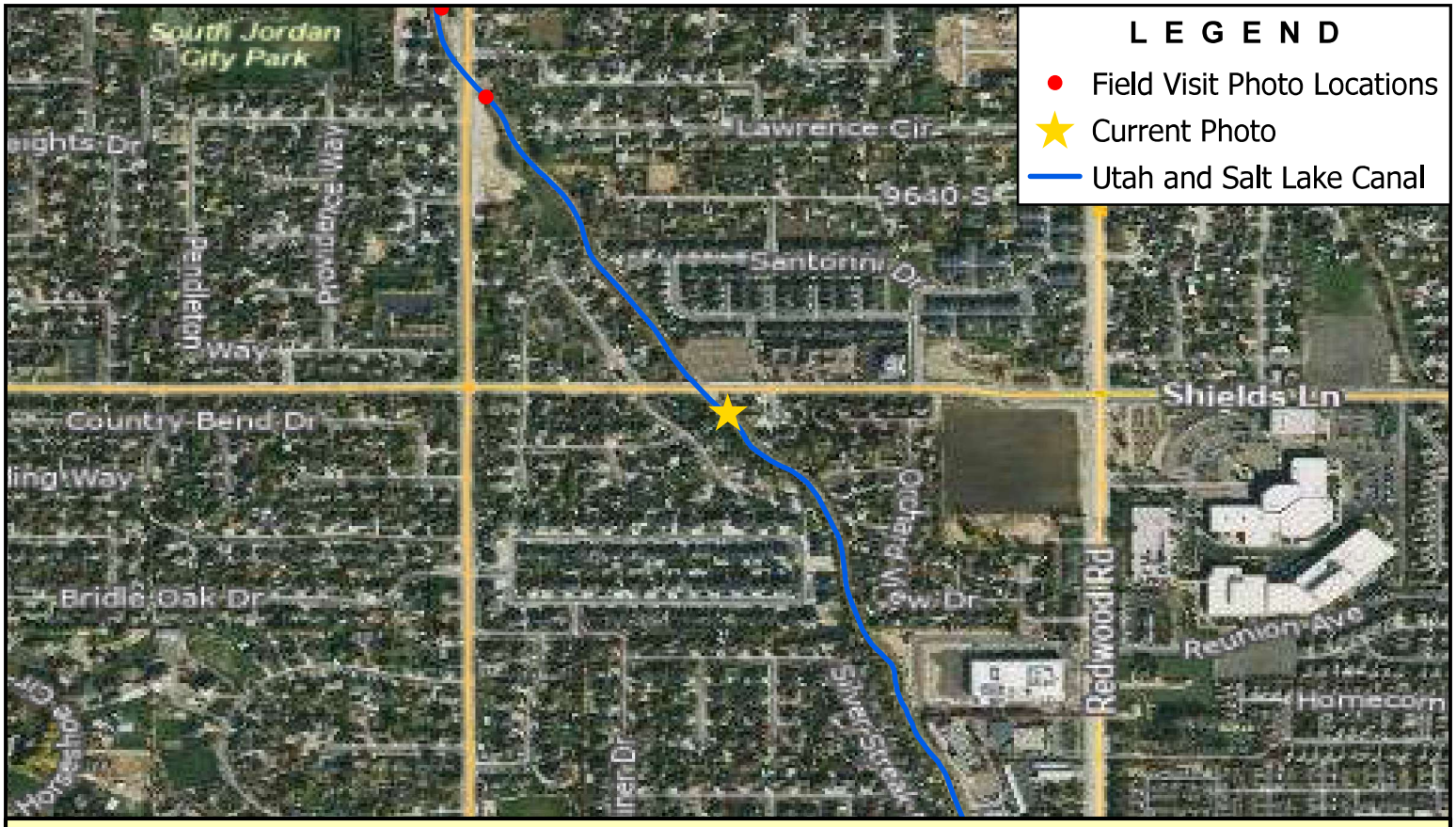
SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 41

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022



Note: 9800 South

BOWEN COLLINS & ASSOCIATES	USLC-62	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 42

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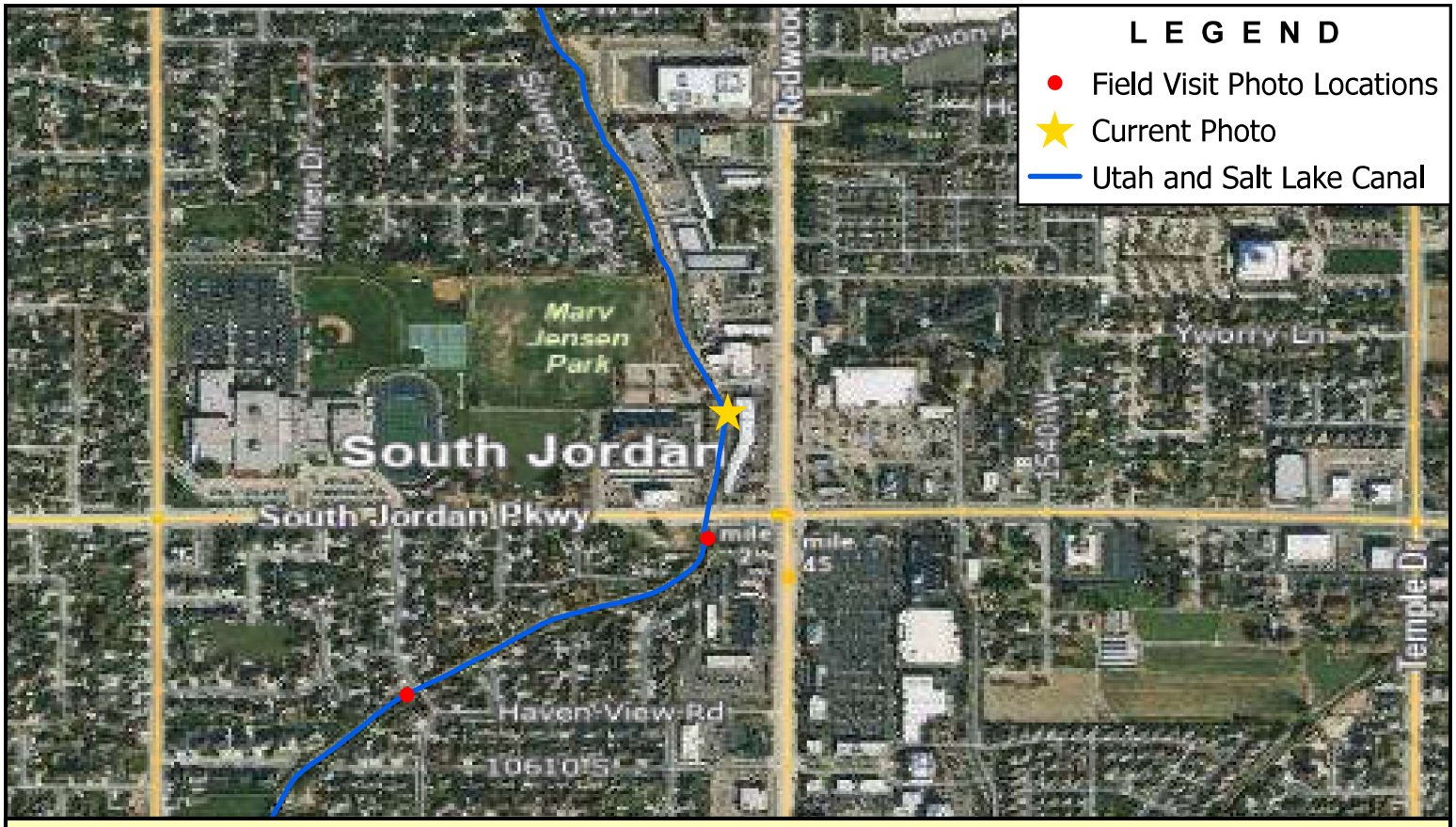

Note: Marv Jensen Park

BOWEN COLLINS & ASSOCIATES

USLC-63

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 43

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Note: 10400 South

BOWEN COLLINS & ASSOCIATES

USLC-64

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 44

Note: Culmination St.

BOWEN COLLINS & ASSOCIATES

USLC-65

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 45

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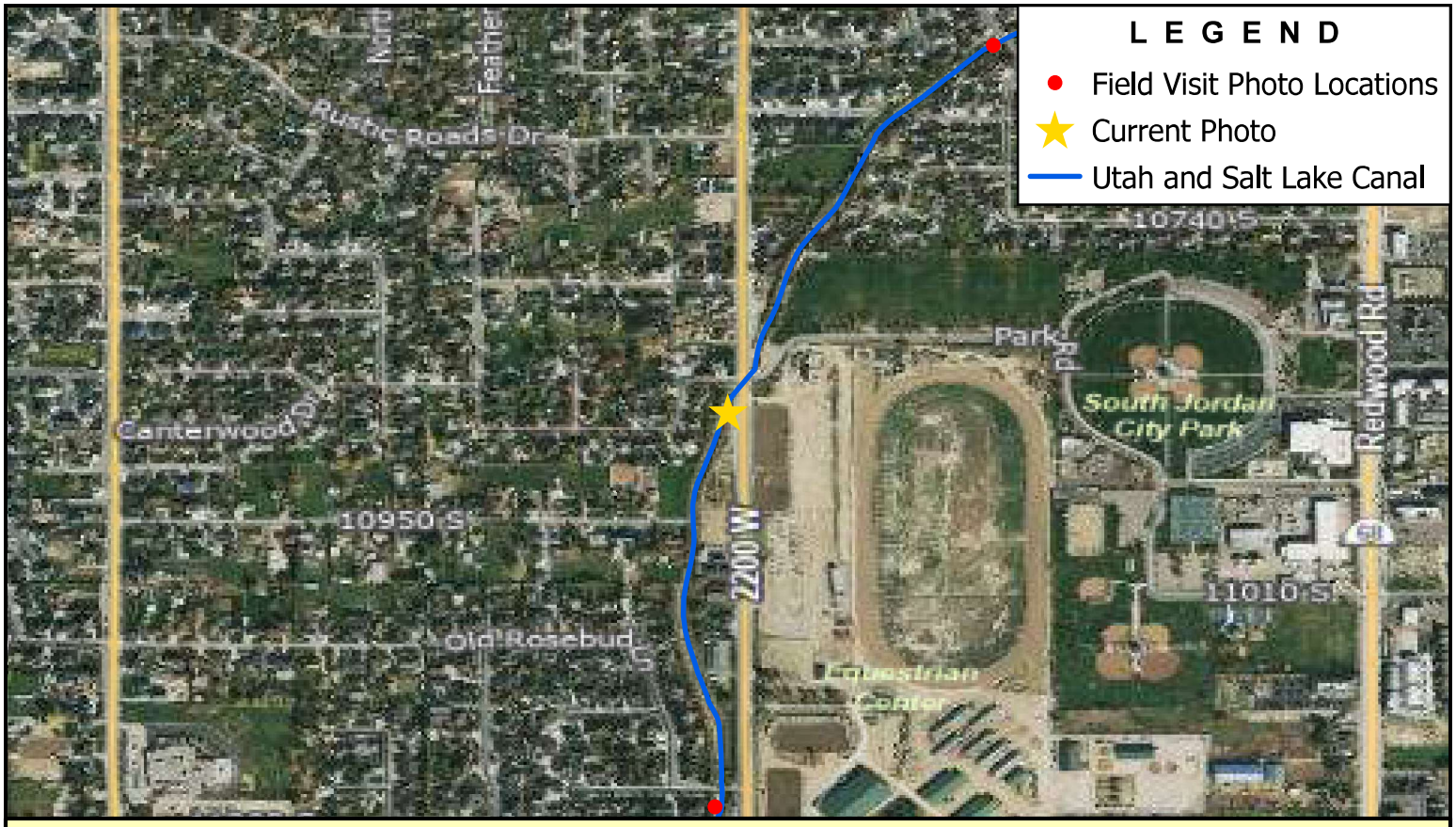

Note: 2200 West

BOWEN COLLINS & ASSOCIATES

USLC-66

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 46

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: Gallant Fox Ct.

BOWEN COLLINS & ASSOCIATES

USLC-67

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 47

Note: 11200 South Access Bridge

BOWEN COLLINS & ASSOCIATES

USLC-68

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 48

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: 11400 South Control Structure

BOWEN COLLINS & ASSOCIATES	USLC-69	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 49

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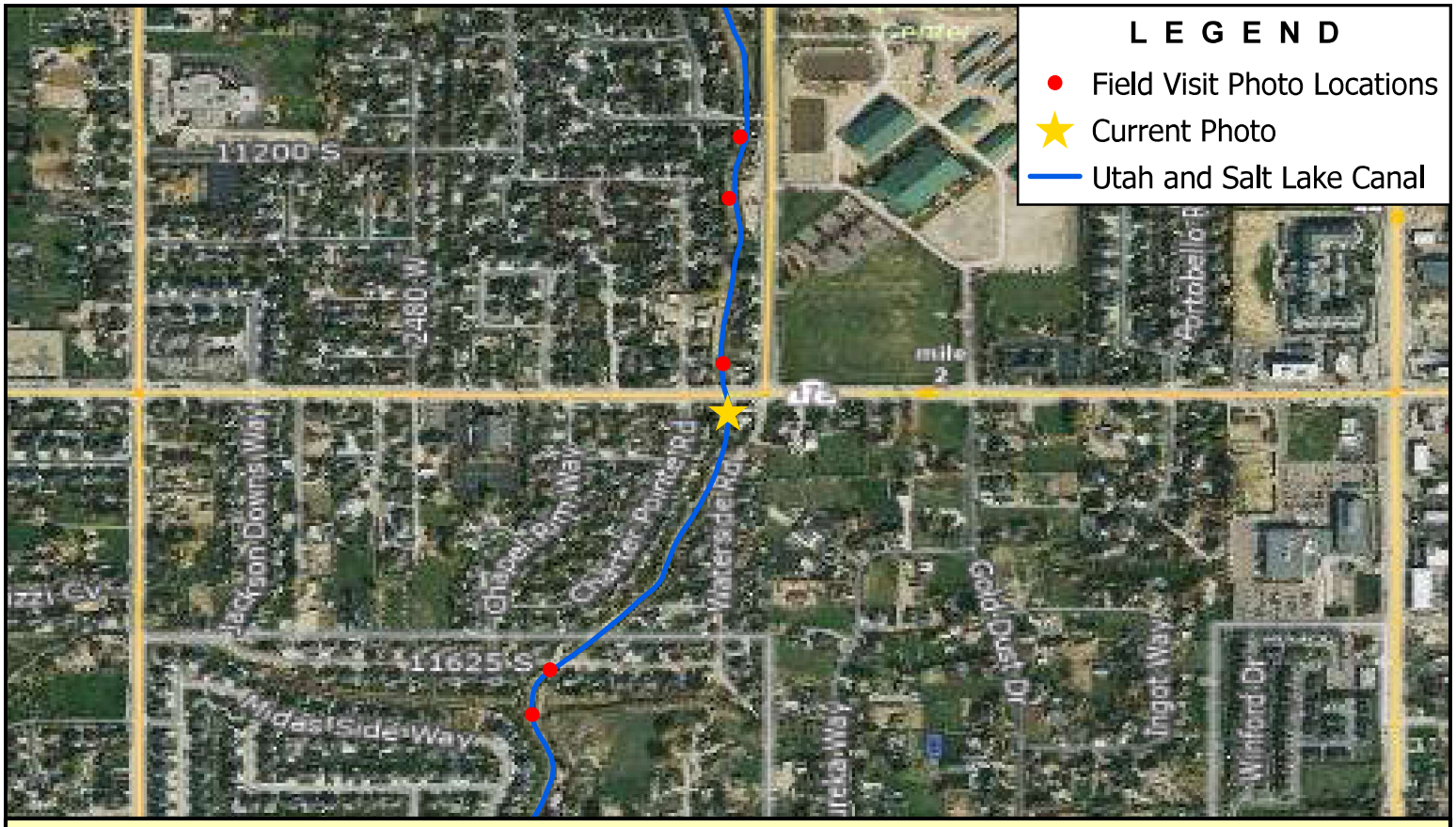

Note: 11400 South

BOWEN COLLINS & ASSOCIATES

USLC-70

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 50

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: 11625 South

BOWEN COLLINS & ASSOCIATES	USLC-71	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 51

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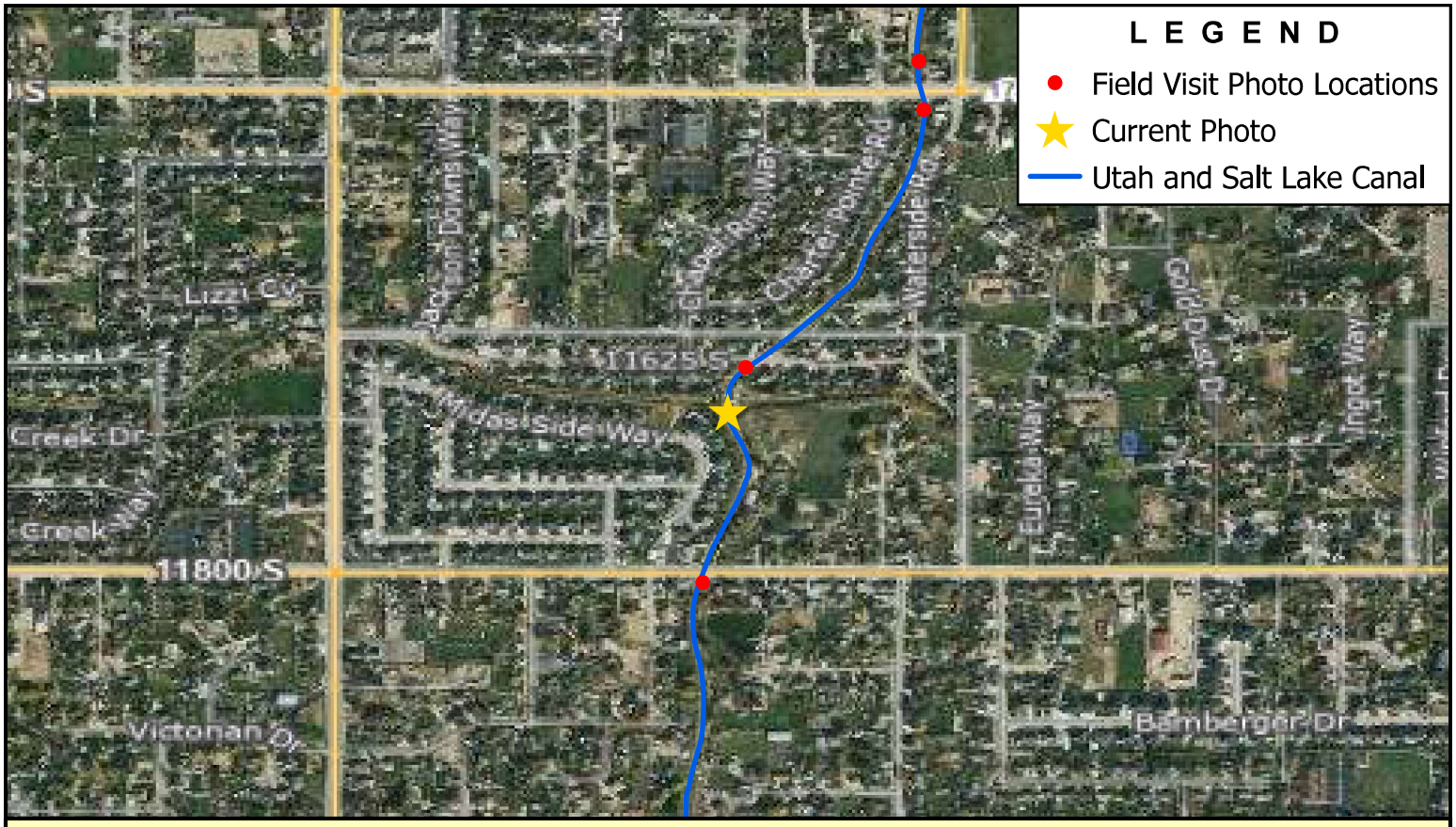

Note: Midas Creek Dumpout

BOWEN COLLINS & ASSOCIATES

USLC-72

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 52

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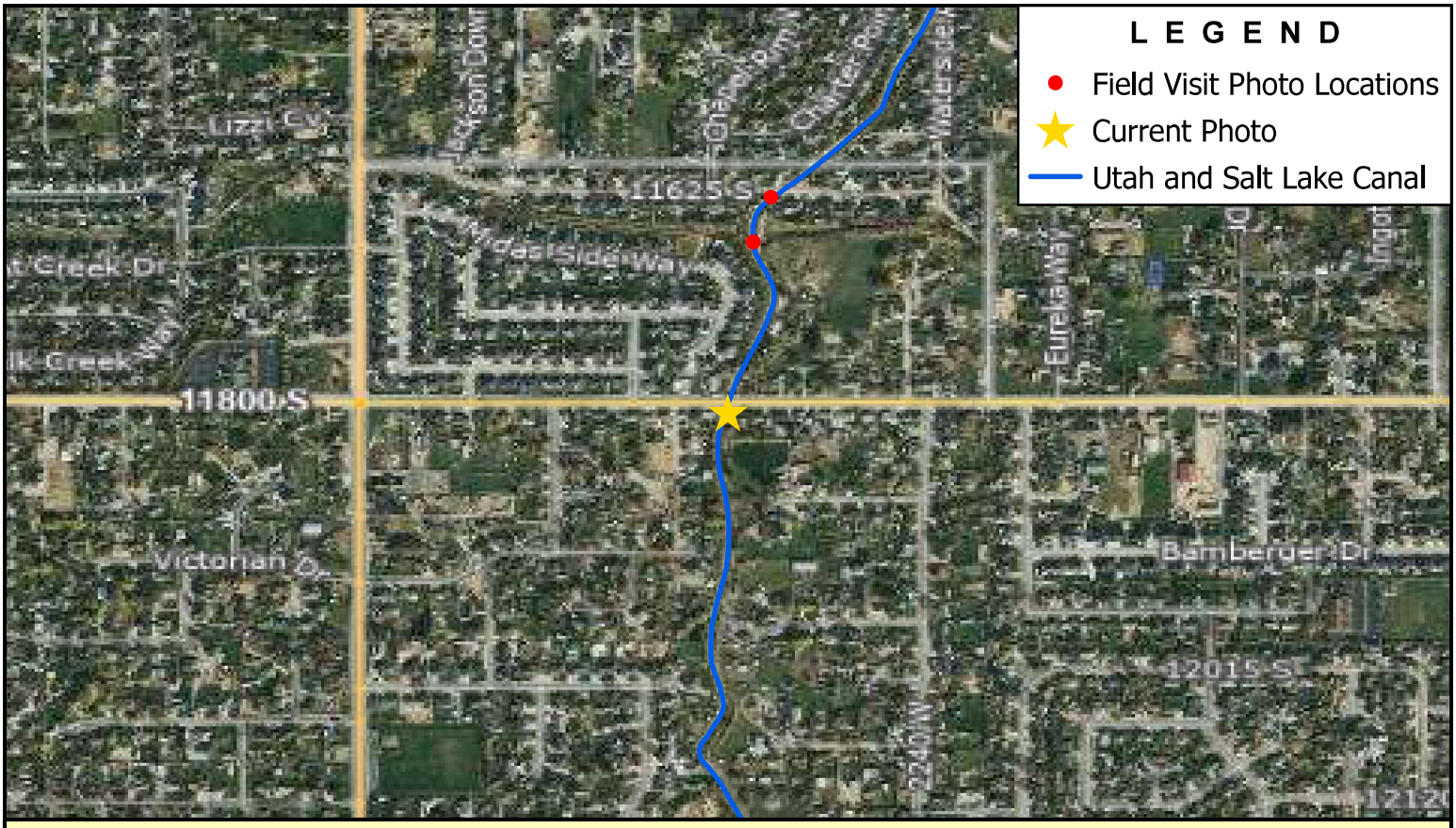

Note: 11800 South

BOWEN COLLINS & ASSOCIATES

USLC-73

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 53

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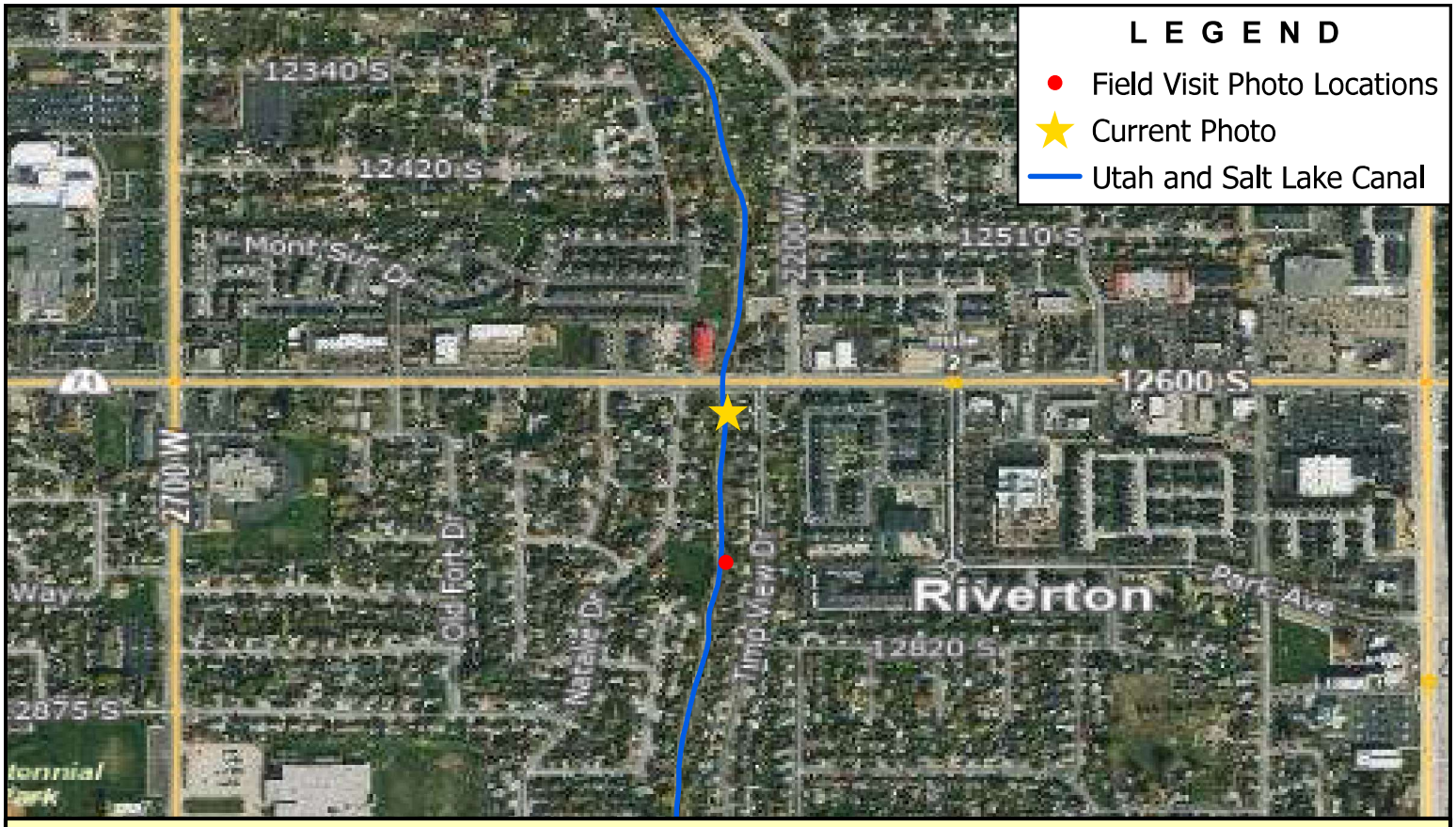

Note: 12600 South

BOWEN COLLINS & ASSOCIATES

USLC-74

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 54

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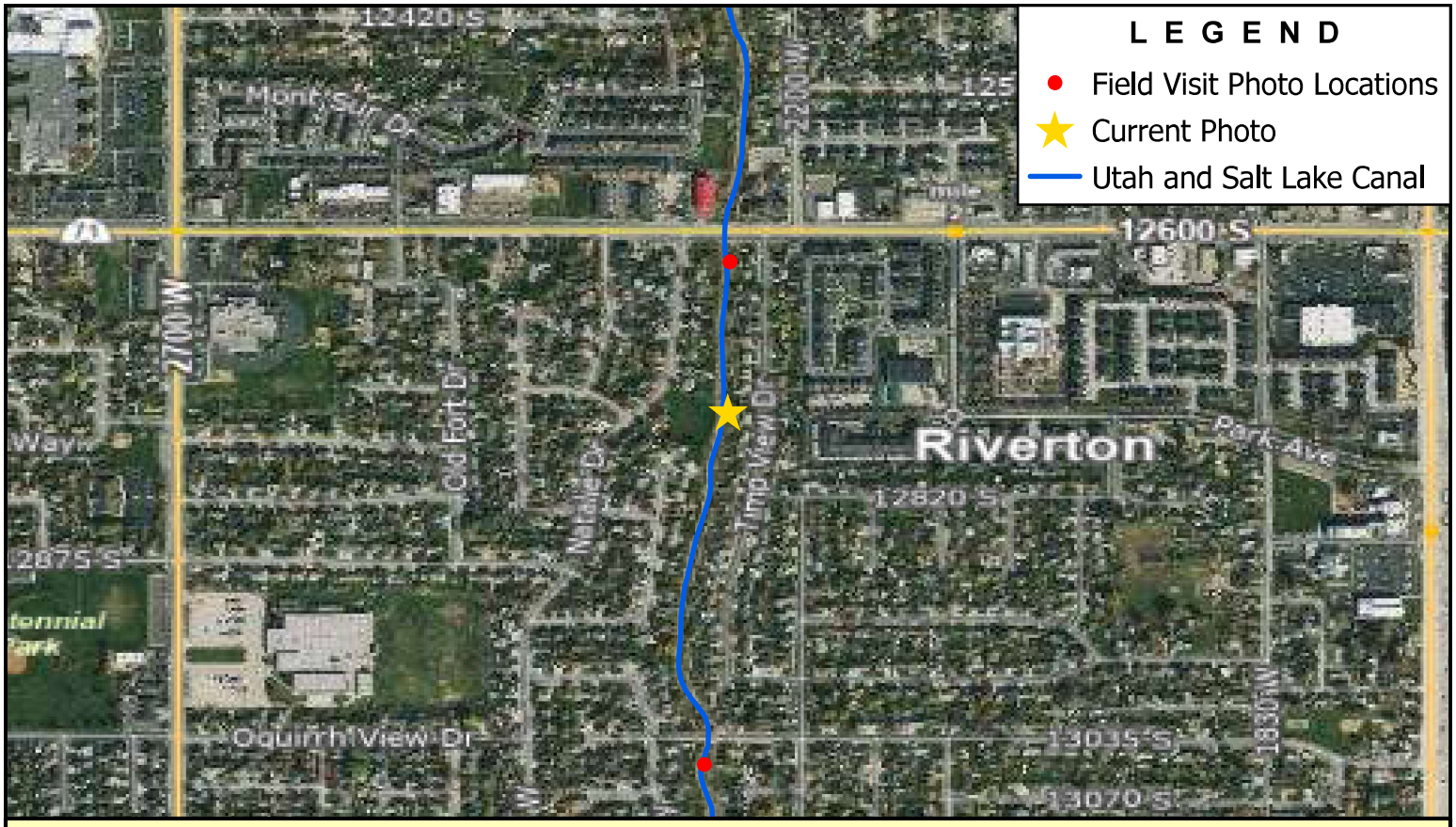

Note: 12750 South Control Structure

BOWEN COLLINS & ASSOCIATES

USLC-75

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 55

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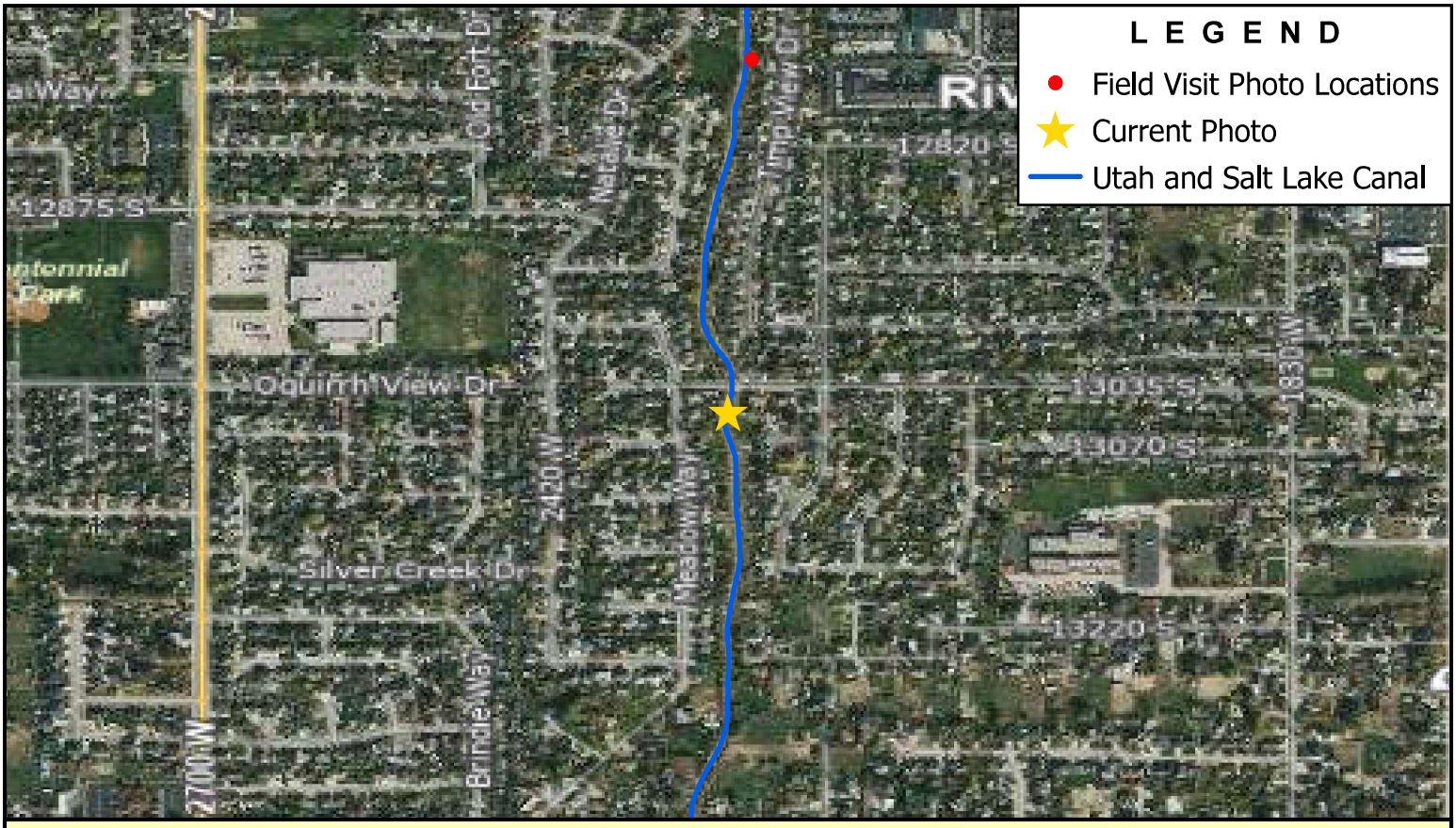

Note: 13035 South

BOWEN COLLINS & ASSOCIATES

USLC-76

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 56

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: 13400 South

BOWEN COLLINS & ASSOCIATES

USLC-77

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 57

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: Rose Creek Dumpout

BOWEN COLLINS & ASSOCIATES

USLC-79

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 58

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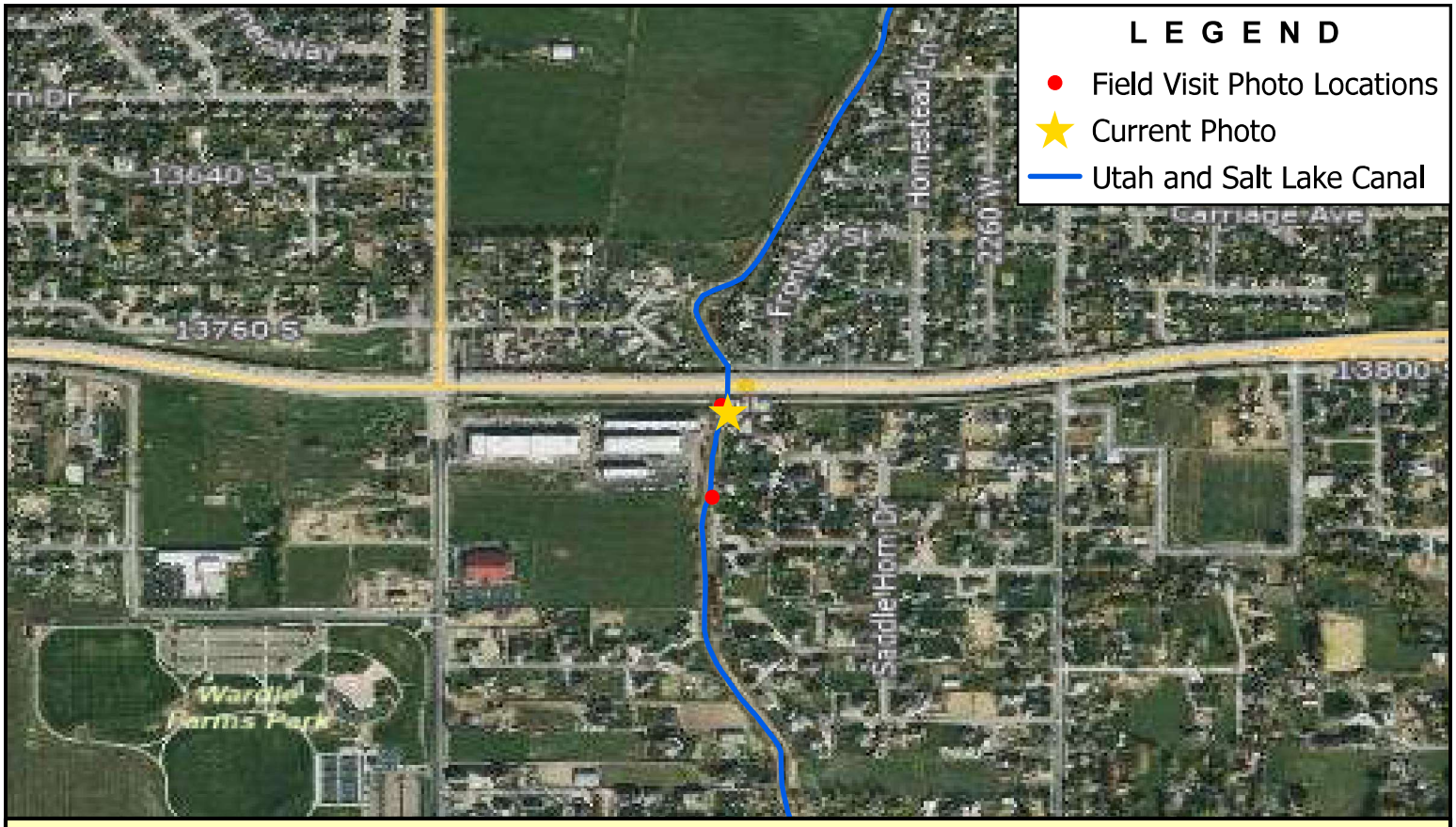


Note: Bangerter Hwy

BOWEN COLLINS & ASSOCIATES

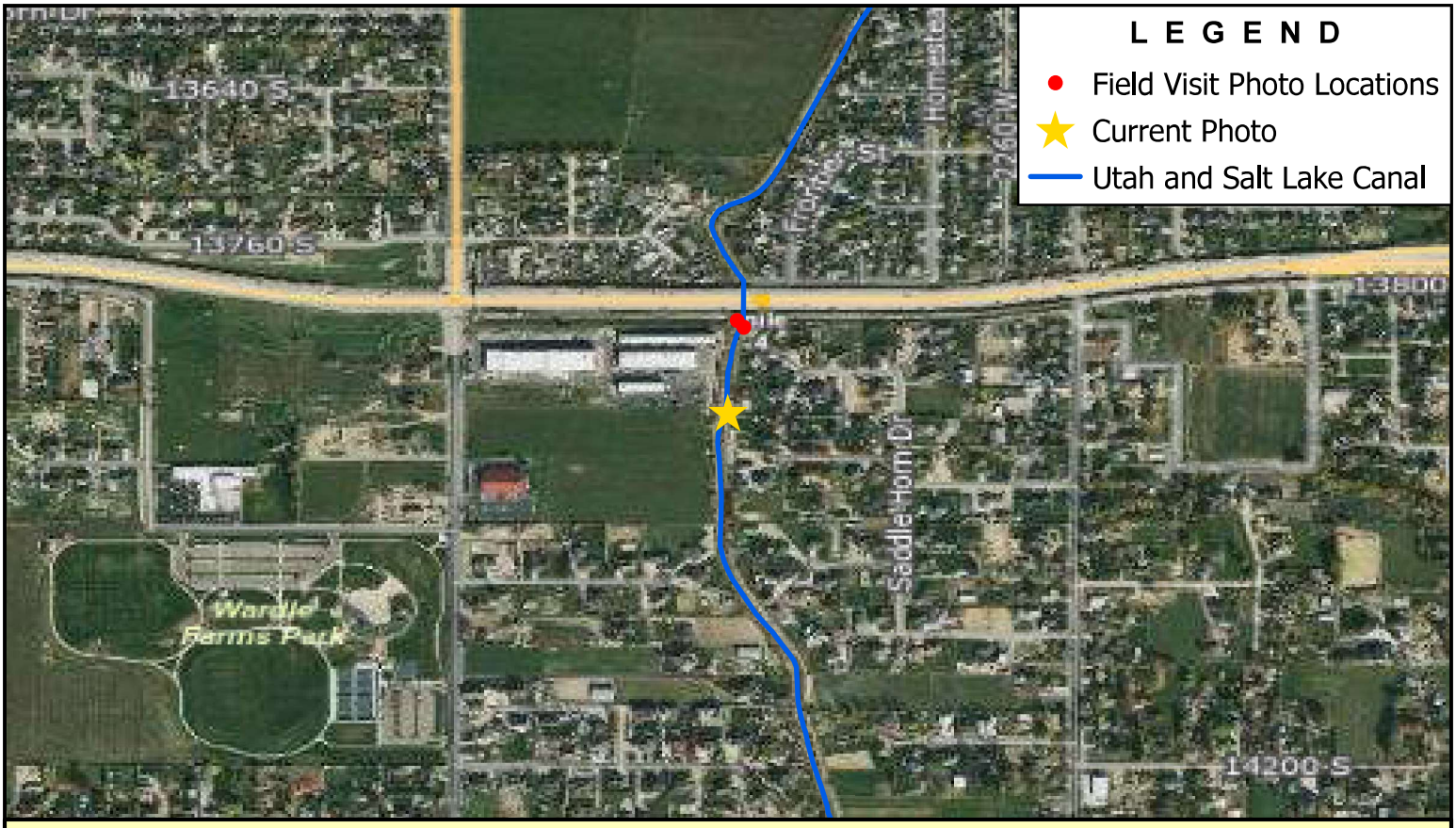
USLC-78

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 59



Note: 13800 South Control Structure

BOWEN COLLINS & ASSOCIATES

USLC-80

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 60

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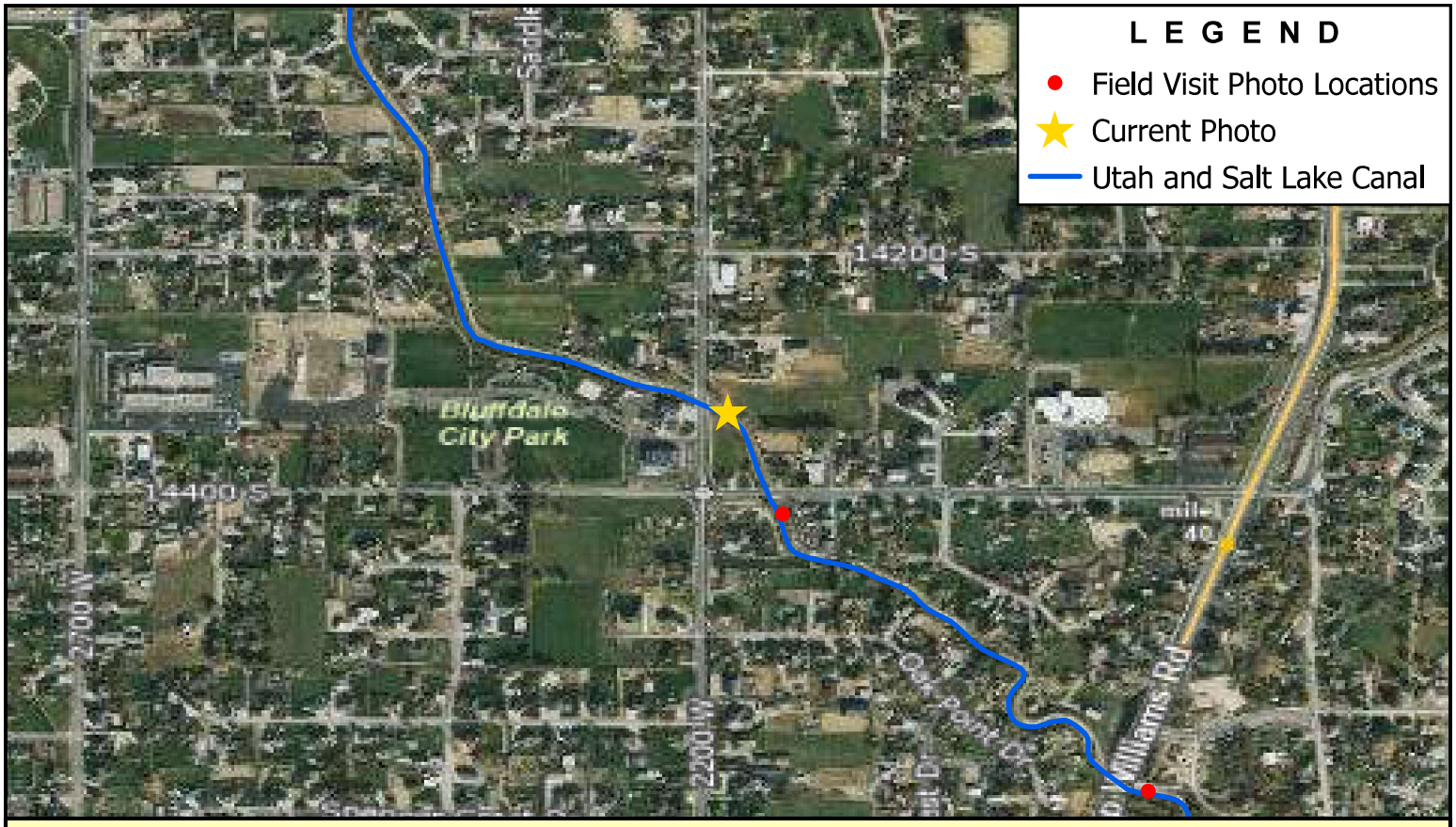


Note: 2200 West

BOWEN COLLINS & ASSOCIATES

USLC-81

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 61

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: 14400 South

BOWEN COLLINS & ASSOCIATES

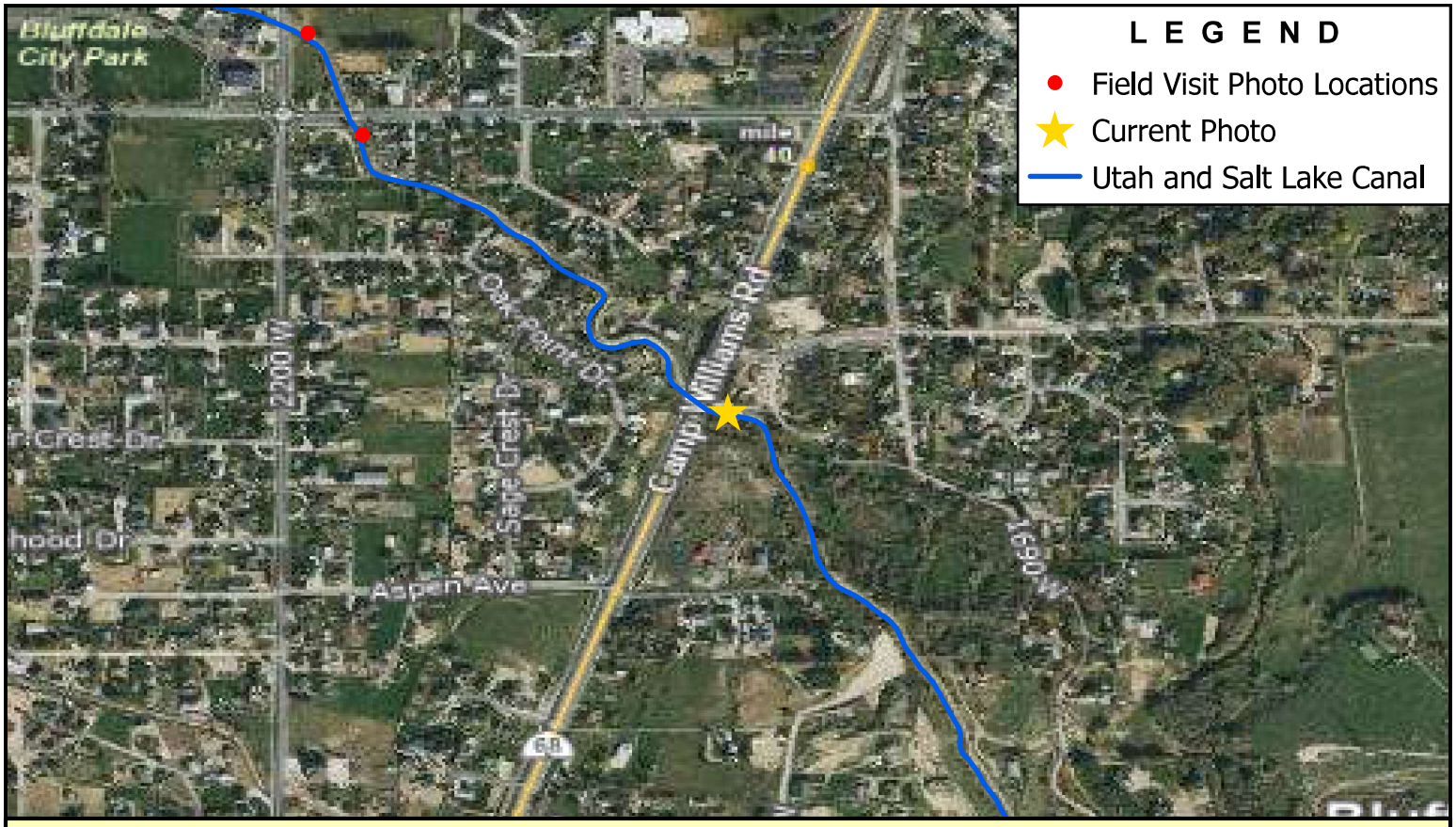
USLC-82

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 62



Note: Redwood Rd.

BOWEN COLLINS & ASSOCIATES

USLC-83

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 63

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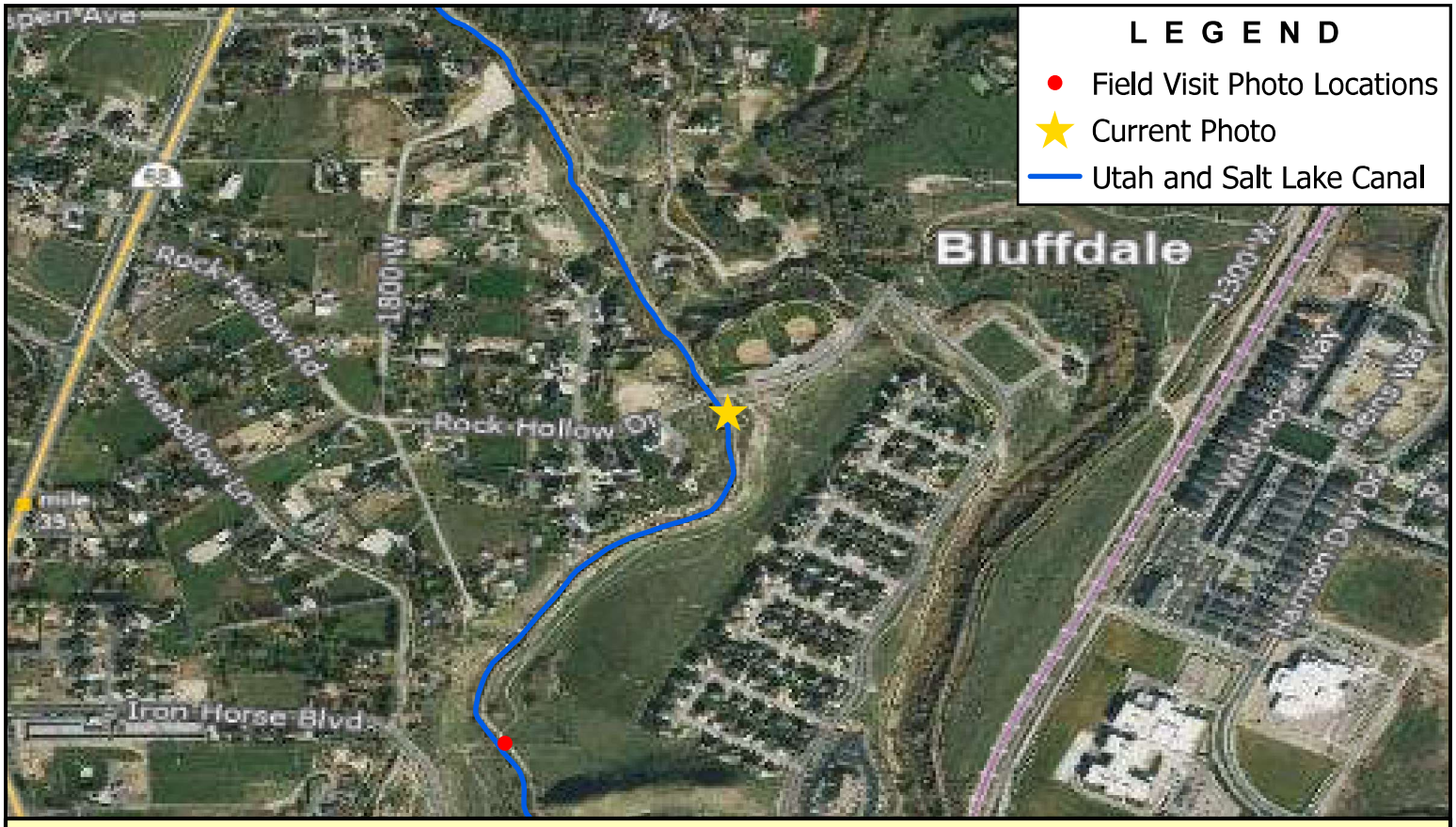


Note: Rock Hollow Dr.

BOWEN COLLINS & ASSOCIATES

USLC-84

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 64

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: Trail Bridge

BOWEN COLLINS & ASSOCIATES

USLC-85

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 65

Note: Iron Horse Blvd.

BOWEN COLLINS & ASSOCIATES

USLC-86

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 66

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\4.1 Projects\USLC\USLC Photo Log.aprx tjorgensen 7/21/2022

Note: Trail Bridge

BOWEN COLLINS & ASSOCIATES

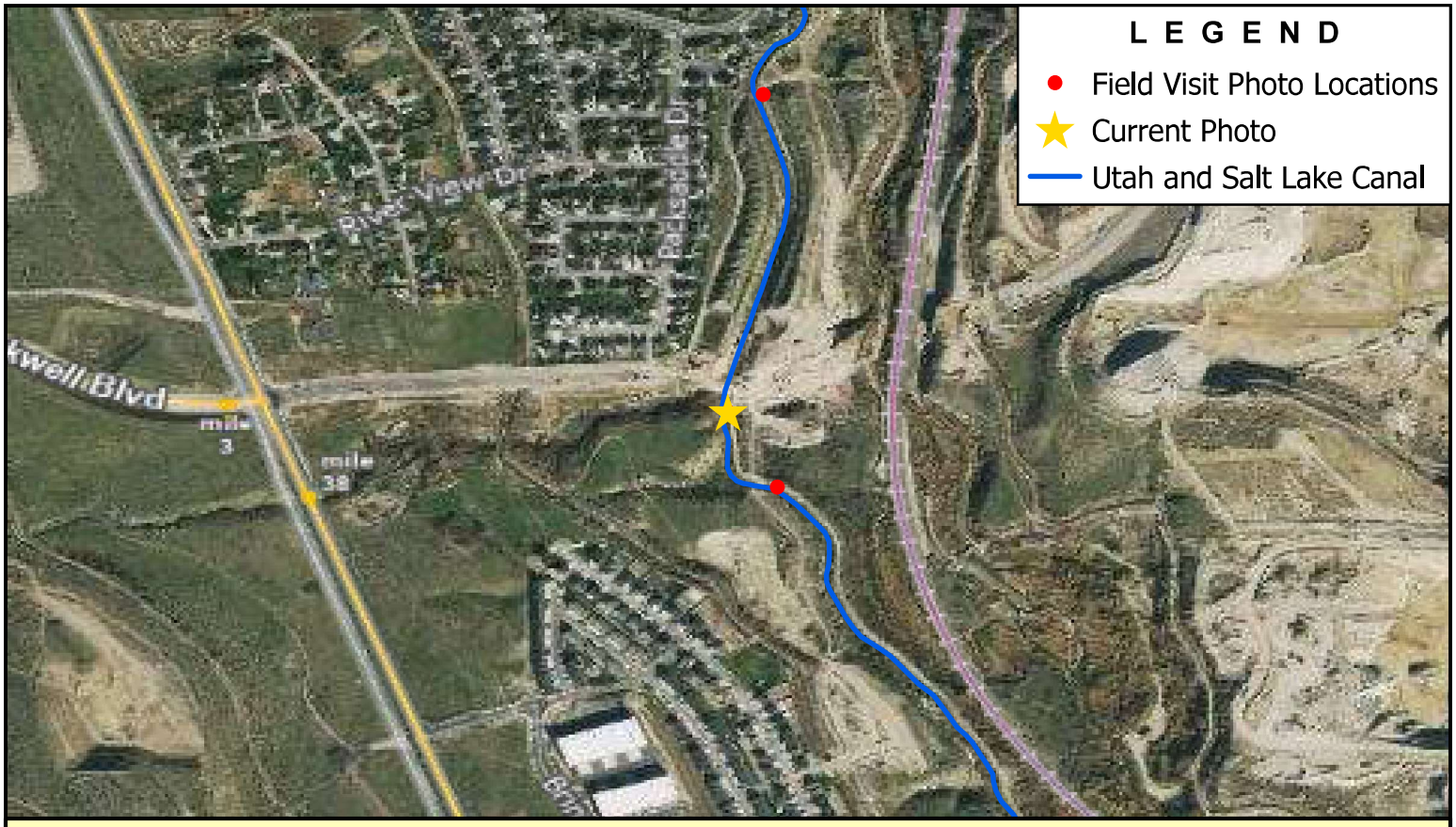
USLC-87

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 67



Note: Porter Rockwell Blvd.

BOWEN COLLINS & ASSOCIATES	USLC-88	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 68

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Note: Trail Bridge

BOWEN COLLINS & ASSOCIATES	USLC-89	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	SALT LAKE COUNTY UTAH & SALT LAKE CANAL PHOTO LOG SWCCS		PHOTOGRAPH NO. 69

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Note: Access Bridge

BOWEN COLLINS & ASSOCIATES

USLC-90

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 70

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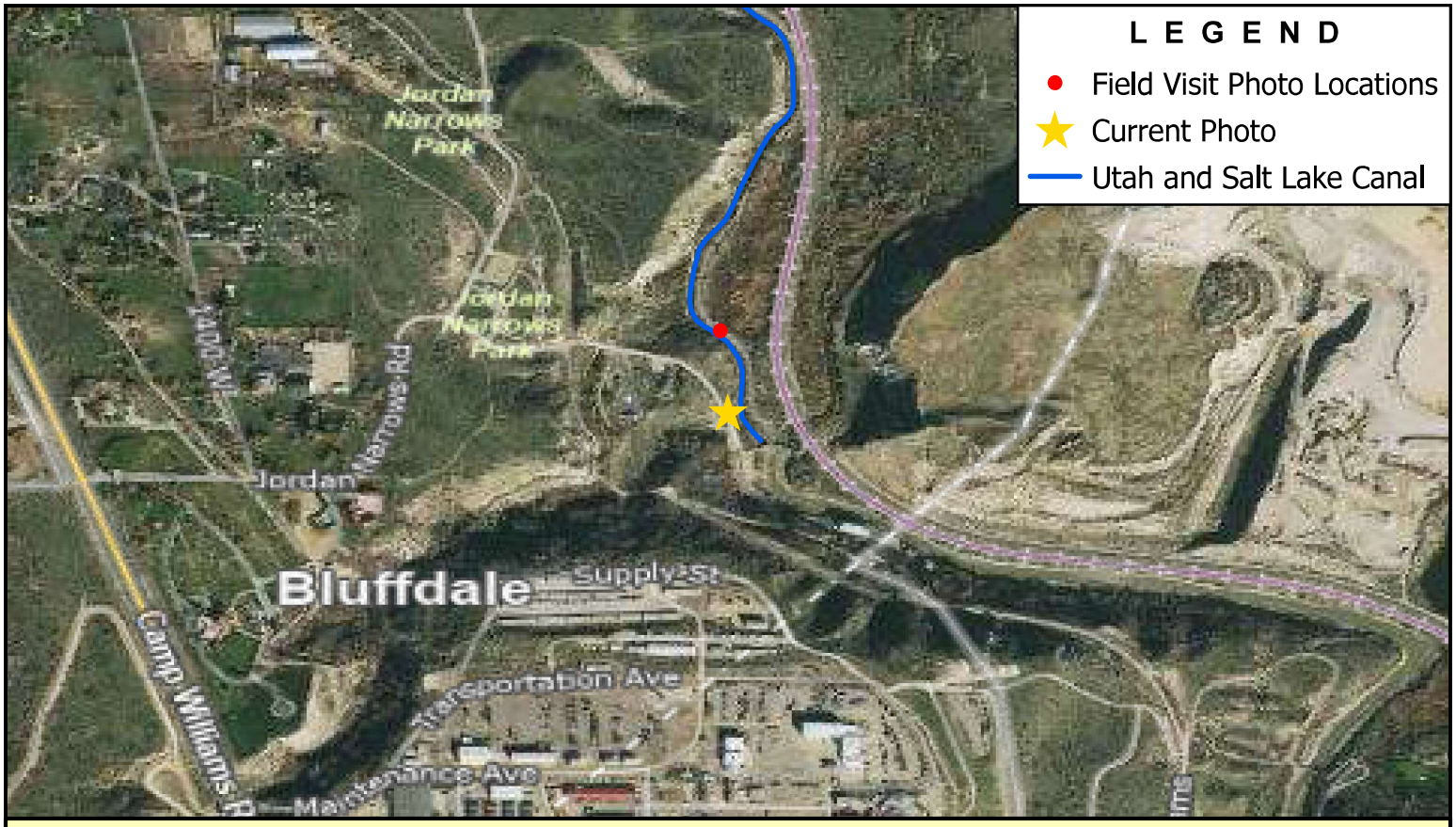

Note: Diversion at Turner Dam

BOWEN COLLINS & ASSOCIATES

Turner Dam

SALT LAKE COUNTY
UTAH & SALT LAKE CANAL
PHOTO LOG SWCCS

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 71

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APPENDIX C

Hydrologic Model Parameters

Barneys Creek Hydrologic parameters

Subbasin ID	Area (ac)	Ex CN	Fut CN	Ex % Imp.	Fut % Imp.	Lag Time (hr)
BA_100	198.25	60	60	50	85	0.51
BA_110	120.20	60	60	36	36	0.49
BA_120	149.28	60	60	28	30	0.48
BA_130	26.03	60	60	71	71	0.33
BA_140	16.60	60	60	33	33	0.33
BA_150	12.71	60	60	18	19	0.32
BA_160	27.58	60	60	18	89	0.37
BA_170	20.49	60	60	17	66	0.38
BA_180	82.08	63	60	12	16	0.38
BA_190	67.60	60	60	17	18	0.4
BA_200	7.76	65	65	14	14	0.32
BA_210	87.68	57	60	4	23	0.44
BA_220	142.40	61	60	0	41	0.49
BA_230	3694.29	57	57	0	5	3.16
BA_250	36.53	60	60	42	48	0.37
BA_260	29.50	60	60	30	75	0.38
BA_270	51.53	60	60	70	70	0.36
BA_275	24.68	60	60	20	99	0.36
BA_280	24.76	60	60	40	35	0.36
BA_290	107.35	62	62	0	10	0.51
BA_300	673.12	62	62	0	0	0.65
BA_310	311.50	65	65	0	15	0.91
BA_320	72.25	60	60	21	21	0.38
BA_340	22.41	60	60	17	17	0.31
BA_350	27.96	60	60	75	75	0.32
BA_360	24.23	60	60	20	20	0.35
BA_370	42.84	60	60	23	24	0.39
BA_380	20.11	60	60	21	21	0.36
BA_385	29.08	60	60	21	21	0.36
BA_390	30.80	60	60	20	20	0.34
BA_400	30.51	60	60	0	42	0.36
BA_410	24.91	70	60	0	82	0.33
BA_420	63.10	60	60	42	43	0.38
BA_430	126.06	61	60	2	19	0.47
BW_100	44.50	60	60	49	68	0.42
BW_110	34.21	60	60	16	16	0.39
BW_120	337.80	60	60	31	31	0.52
BW_130	20.35	60	60	69	69	0.35
BW_140	24.18	62	60	1	68	0.34
BW_150	30.44	55	60	12	76	0.37
BW_160	99.13	66	66	0	10	0.39
BW_165	14.09	59	60	0	34	0.37
BW_170	81.23	60	60	21	24	0.39
BW_180	417.39	60	60	0	34	2.33
BW_190	1505.01	63	60	4	63	2.75

BW_200	86.41	60	60	19	19	0.38
BW_210	43.58	60	60	25	26	0.35
BW_220	215.98	60	60	23	25	0.5
BW_240	145.24	59	60	0	44	0.46
BW_250	94.77	52	60	5	81	0.42
BW_260	80.35	60	60	17	72	0.4
BW_270	33.61	60	60	52	74	0.32
BW_280	39.72	60	60	38	56	0.37
BW_290	429.00	62	60	3	63	2.83
BW_300	33.35	60	60	19	24	0.36
BW_310	218.10	58	60	0	41	0.65
CH_100	11.52	61	60	1	57	0.33
CH_110	38.55	64	60	10	59	0.35
CH_120	26.19	60	60	37	42	0.35
CH_125	40.81	60	60	20	20	0.37
CH_130	82.27	62	60	0	38	0.39
CH_140	55.17	60	60	22	22	0.42
CH_150	31.00	60	60	29	29	0.37
CH_160	37.55	60	60	27	27	0.36
CH_170	102.12	62	62	0	4	0.46
CH_180	3284.38	60	60	0	11	1.5
CH_190	22.44	60	60	40	40	0.37
CH_200	27.42	60	60	32	32	0.33
CH_210	267.50	60	60	0	42	0.53
CH_230	64.90	60	60	20	20	0.41
CH_240	53.40	60	60	24	24	0.43
CH_250	62.71	60	60	38	38	0.37
CH_260	79.34	60	60	28	69	0.4
CH_270	23.44	60	60	73	73	0.36
DC_100	127.10	60	60	20	52	0.43
DC_110	128.90	60	60	33	34	0.45
DC_115	39.47	60	60	43	62	0.38
DC_130	155.89	60	60	23	34	0.48
DC_140	106.58	60	60	38	49	0.39
DC_150	194.33	56	60	0	37	0.46
DC_160	23.06	60	60	20	100	0.37
DC_170	191.57	58	60	0	49	0.41
DC_180	19.61	60	60	31	47	0.38
DC_190	404.16	62	60	0	16	0.54
DC_200	224.42	62	62	0	0	1
DC_210	36.82	55	60	0	34	0.37
DC_220	25.40	60	60	69	69	0.39
DC_230	102.91	59	60	7	53	0.4
DC_260	184.55	63	60	0	18	0.46
DC_270	18.97	56	56	0	11	0.32
R_CH_120	14.93	60	60	21	21	0.31
R_CH_250	12.74	60	60	70	70	0.31

UW_100	7.72	60	60	17	24	0.32
UW_110	29.30	60	60	44	44	0.34
UW_120	48.73	60	60	22	22	0.36
UW_130	72.72	60	60	23	23	0.38
UW_140	56.99	60	60	33	33	0.34
UW_150	29.57	60	60	22	22	0.35
UW_160	90.73	60	60	13	27	0.49
UW_170	51.21	61	60	2	18	0.38
UW_180	48.49	60	60	20	20	0.4
UW_190	40.79	60	60	20	20	0.39
UW_200	15.12	60	60	70	70	0.39

Wood Hollow & Wood Hollow South Hydrologic parameters

FID	Area (ac)	Name	New	Basin	CN	EX_Percl	Fut_Percl	New Development?	Lag Time	0.2 cfs/ac	0.02 cfs/ac (RC)
1	109.6814	BH01	BH01	Beef Hollow	58	31.0%	42.5%	No	0.48	N/A	N/A
2	56.69619	BH02	BH02	Beef Hollow	50	0.1%	99.9%	Yes	0.38	11	11.0
3	728.7115	BH03	BH03	Beef Hollow	60	4.7%	4.8%	No	0.84	N/A	N/A
4	614.3447	BH04	BH04	Beef Hollow	65	0.0%	0.0%	No	1.67	N/A	N/A
0	1455.896	BH05	BH05	Beef Hollow	64	0.0%	0.0%	No	1.92	N/A	N/A
39	9.339068	BHN01	BHN01	Beef Hollow North	67	0.1%	14.4%	Yes	0.33	2	0.2
28	33.65976	BHN02	BHN02	Beef Hollow North	69	14.4%	35.9%	Yes	0.31	7	0.7
27	34.28636	BHN03	BHN03	Beef Hollow North	68	0.0%	64.2%	Yes	0.35	7	0.7
26	302.0312	BHN04	BHN04	Beef Hollow North	53	0.0%	51.2%	Yes	0.48	60	6.0
42	32.39818	BHN05	BHN05	Beef Hollow North	50	5.0%	15.6%	Yes	0.44	6	0.6
43	48.0835	BHN06	BHN06	Beef Hollow North	51	0.7%	64.3%	Yes	0.45	10	1.0
24	100.4764	BHN07	BHN07	Beef Hollow North	60	0.0%	0.0%	No	1.25	N/A	N/A
23	294.3141	BHN08	BHN08	Beef Hollow North	67	0.0%	0.0%	No	2.59	N/A	N/A
41	118.7408	ULDC01	ULDC01	ULDC	64	12.0%	12.0%	No	0.45	N/A	N/A
38	105.401	ULDC02	ULDC02	ULDC	62	0.6%	84.1%	Yes	0.47	21	2.1
34	101.1015	ULDC03	ULDC03	ULDC	72	12.2%	28.2%	Yes	0.45	20	2.0
40	127.103	USLC01	USLC01	USLC	61	0.1%	11.0%	Yes	0.56	25	2.5
36	39.26749	USLC02	USLC02	USLC	69	0.0%	34.1%	Yes	0.40	8	0.8
35	16.07626	USLC03	USLC03	USLC	68	0.6%	32.5%	Yes	0.37	3	0.3
37	24.15746	USLC04	USLC04	USLC	71	6.1%	6.1%	No	0.43	N/A	N/A
33	121.5605	USLC05	WH11	USLC	67	42.8%	79.7%	Portion	0.35	24	2.4
32	50.62103	USLC06	WH12	USLC	64	0.4%	3.6%	No	0.33	N/A	N/A
31	23.54036	USLC07	WH13	USLC	69	12.2%	95.8%	Yes	0.34	5	0.5
30	51.5812	USLC08	WH14	USLC	70	0.2%	58.3%	Yes	0.43	10	1.0
13	105.7333	WH01	WH01	Wood Hollow	66	17.2%	17.2%	No	0.54	N/A	N/A
9	20.32377	WH02	WH02	Wood Hollow	63	0.0%	0.0%	No	0.36	N/A	N/A
11	28.17003	WH03	WH03	Wood Hollow	69	22.4%	92.4%	No	0.37	N/A	N/A
12	123.7677	WH04	WH04	Wood Hollow	69	0.0%	37.2%	Yes	0.84	25	25.0
6	784.1685	WH05	WH05	Wood Hollow	66	0.0%	13.7%	Yes	2.34	157	157.0
7	584.1537	WH06	WH06	Wood Hollow	66	0.0%	0.0%	No	1.07	N/A	N/A
10	717.0009	WH07	WH07	Wood Hollow	65	0.0%	0.0%	No	1.49	N/A	N/A
5	703.2735	WH08	WH08	Wood Hollow	65	0.0%	0.0%	No	1.84	N/A	N/A
8	488.5848	WH09	WH09	Wood Hollow	64	0.0%	0.0%	No	1.75	N/A	N/A
22	4.075668	WHS01	WHS01	Wood Hollow South	69	0.0%	85.0%	Yes	0.30	1	0.1
14	6.390022	WHS02	WHS02	Wood Hollow South	68	0.0%	78.2%	Yes	0.31	1	0.1
15	8.237363	WHS03	WHS03	Wood Hollow South	66	0.0%	84.7%	Yes	0.31	2	0.2
16	11.38804	WHS04	WHS04	Wood Hollow South	64	0.0%	82.1%	Yes	0.33	2	0.2
25	117.7992	WHS05	WHS05	Wood Hollow South	65	0.0%	79.6%	Yes	0.44	24	2.4
17	40.65763	WHS06	WHS06	Wood Hollow South	69	0.0%	63.5%	Yes	0.38	8	0.8
29	53.12702	WHS07	WHS07	Wood Hollow South	66	0.0%	77.4%	Yes	0.43	11	1.1
20	164.0616	WHS08	WHS08	Wood Hollow South	63	0.0%	7.0%	No	2.09	N/A	N/A
21	58.91388	WHS09	WHS09	Wood Hollow South	64	0.0%	25.9%	Yes	0.39	12	1.2
19	107.003	WHS10	WHS10	Wood Hollow South	69	0.0%	1.8%	No	1.92	N/A	N/A
18	274.5091	WHS11	WHS11	Wood Hollow South	69	0.0%	0.0%	No	2.17	N/A	N/A

Adjusted Future Subbasins

FID	Area (ac)	Name	Basin	CN	EX_Percl	Fut_Percl	New Development?	Lag Time	0.2 cfs/ac	0.02 cfs/ac (RC)
0	620.2083	Wh05	Wood Hollow	66	0	0	No	2.34	N/A	N/A
1	37.97966	WHS09	Wood Hollow South	64	0	0	No	0.39	N/A	N/A
2	193.2839	BHN09	Beef Hollow North	53	0	80	Yes	0.5	39	3.9
3	163.9503	WH10	Wood Hollow	66	0	65.5	Yes	0.56	33	N/A
4	20.93422	WHS12	Wood Hollow South	62	0	73	Yes	0.36	4	0.4
5	107.7474	BHN04	Beef Hollow North	53	0	0	No	0.48	N/A	N/A

Beef Hollow Hydrologic parameters

Subbasin ID	Area (acre)	CN	Ex % Imp	Fut % Imp	Lag Time (hr)
BH-01	109.681	57.147	30.969	42.527	0.48
BH-02	56.696	48.833	0.128	99.93	0.84
BH-03	728.709	58.354	4.691	4.818	0.84
BH-04	614.343	63.766	0	0	1.67
BH-05	1455.891	63.463	0	0	1.92

Utah Lake Distributing Canal Hydrologic parameters

FID	Id	Area	CN	ExPercI	FutPercI	LagT	Descrip	Name
0	0	197.9073232	60	39	39	0.35		ULDC_JL900
1	0	38.81517097	60	37	37	0.34		ULDC_JL800
2	0	47.0102706	60	20	20	0.39		ULDC_JL1000
3	0	16.60498513	60	82	82	0.33		ULDC_JL700
4	0	10.27309488	60	77	78	0.34		ULDC_JL600
5	0	9.572241842	60	82	82	0.32		ULDC_JL500
6	0	6.634447505	60	58	85	0.31		ULDC_JL400
7	0	18.50523173	60	70	70	0.33		ULDC_JL100
8	0	18.24913356	60	83	84	0.31		ULDC_JL200
9	0	9.063199426	60	44	85	0.32		ULDC_JL300
10	0	15.09856549	60	61	72	0.33		ULDC_JL110

FID	Name	Basin
0	ULDC03	See The Hollows
1	ULDC02	See The Hollows
2	ULDC01	See The Hollows
3	RC70	See Rose Creek
4	RC73	See Rose Creek
5	RC74	See Rose Creek
6	RC72	See Rose Creek
7	RC71	See Rose Creek
8	RC163	See Rose Creek
9	ULDC_MI350	See Midas Creek
10	ULDC_MI370	See Midas Creek
11	ULDC_MI300	See Midas Creek
12	ULDC_MI290	See Midas Creek
13	ULDC_MI330	See Midas Creek
14	ULDC_MI320	See Midas Creek
15	ULDC_MI400	See Midas Creek
16	ULDC_MI390	See Midas Creek
17	ULDC_MI310	See Midas Creek
18	ULDC_MI380	See Midas Creek
19	ULDC_MI360	See Midas Creek
20	ULDC_BI100	See Bingham Creek

Utah & Salt Lake Canal Hydrologic parameters

SubbasinID	Description	Area	Curve Number	Ex. % Imp.	Fut. % Imp.	Ex. CN	Fut. CN	Lag Time
USLC_1000		39.32	80.26	61	61	60	60	0.38
USLC_1100		47.75	80.75	57	57	60	60	0.33
USLC_1110		267.98	80.87	42	45	60	60	0.50
USLC_1120		85.65	80.91	48	48	60	60	0.45
USLC_1200		37.83	82.37	78	78	60	60	0.39
USLC_1300		93.4	77.01	53	53	60	60	0.59
USLC_1310		232.8	79.15	36	36	60	60	0.58
USLC_1320		235.6	66.68	43	85	60	60	0.55
USLC_1330		235.4	76.97	36	46	60	60	0.49
USLC_1340		70.07	76	19	19	60	60	0.41
USLC_1350		79.23		82	82	60	60	0.41
USLC_1400		75.28	80.77	33	33	60	60	0.33
USLC_1500		54.92	72.1	33	33	60	60	0.37
USLC_1510		255.97	77.07	39	39	60	60	0.57
USLC_1520		138.01	77.67	36	36	60	60	0.44
USLC_1530		66.4	80.79	67	67	60	60	0.43
USLC_1540		164.59		81	81	60	60	0.43
USLC_1600		497.19	57.28	35	35	60	60	0.68
USLC_1610		141.44	70.59	71	71	60	60	0.45
USLC_1700		149.43	59.79	23	23	60	60	0.45
USLC_1800		78.02	65.75	26	43	60	60	0.39
USLC_1900		84.39	66.75	25	29	60	60	0.40
USLC_2000		106.29	74.71	20	20	60	60	0.40
USLC_2100		96.26	67.46	17	17	60	60	0.37
USLC_2200		90.05	58.04	15	15	60	60	0.40
USLC_2300		57.81	66.51	24	24	60	60	0.38
USLC_2400		139.5	59.99	28	28	60	60	0.39
USLC_2500		341.25	55.95	23	23	60	60	0.50
USLC_2600		330.74	52.39	48	48	60	60	0.51
USLC_2610		477.9	71.86	44	44	60	60	0.50
USLC_2700		145.78	51.31	63	60	60	60	0.52
USLC_2800		377.19	53.81	30	29	60	60	0.50
USLC_2900		272.48	72.98	24	24	60	60	0.39
USLC_3000		209.48	72.47	11	20	60	60	0.36
USLC_3100		173.96	72.98	23	23	60	60	0.36

South Jordan Canal Hydrologic parameters

FID	Id	Name	Area	Existing % Imp	Future % Imp	CN	Lag Time
0	0	WJ_SJC110	130.3006459	41.3636	41.3636	79.770544	0.38
1	0	WJ_SJC120	64.61694812	42.3214	42.3214	81.161716	0.44
2	0	WJ_SJC130	93.43313278	39.8864	39.8864	80.975857	0.51
3	0	WJ_SJC140	247.8351278	35.2083	35.2083	80.863355	0.58
4	0	WV_SJC100	26.60334811	40	36	76.866848	0.39
5	0	WV_SJC110	49.31501497	31.4286	27.381	75.522306	0.47
6	0	WJ_SJC100	151.0006405	50.4839	50.4839	81.145072	0.45
7	0	WJ_SJC160	105.8212357	23.375	23.75	74.387952	0.39
8	0	WJ_SJC170	127.7755283	25.5208	25.5208	74.312032	0.42
9	0	WJ_SJC150	188.0212999	34	33.3051	80.607786	0.55
10	0	TV_SJC120	111.1450456	25.8889	22.7778	70.200468	0.55
11	0	TV_SJC100	47.2977793	27.6316	23.1579	66.137338	0.38
12	0	TV_SJC110	212.8151482	34.5055	34.8352	73.954209	0.56
13	0	TV_SJC130	86.46717005	30.5263	26.1842	74.595258	0.45
14	0	WJ_SJC180	102.386687	29.5	28.1667	67.460497	0.5
15	0	WJ_SJC190	75.68225645	14	11	66.006086	0.3

North Jordan Canal Hydrologic parameters

Subbasin ID	Area (ac)	Existing CN	Future CN	Exisiting % Imp.	Future % Imp.	Lag Time
MR_NJC100	7.64	60	60	70	70	0.33
TV_NJC100	103.32	60	60	23	36	0.44
TV_NJC110	17.01	60	60	10	20	0.36
TV_NJC120	108.38	60	60	26	33	0.49
TV_NJC130	7.19	60	60	20	20	0.31
TV_NJC140	44.67	60	60	26	26	0.39
TV_NJC150	140.43	60	60	48	54	0.52
TV_NJC160	92.37	60	60	56	64	0.45
TV_NJC170	58.81	60	60	51	51	0.41
TV_NJC180	18.30	60	60	37	37	0.35
TV_NJC190	96.10	60	60	30	30	0.44
TV_NJC200	30.99	60	60	17	17	0.44
TV_NJC210	32.60	60	60	43	50	0.39
TV_NJC220	88.43	60	60	72	75	0.54
TV_NJC230	29.13	60	60	45	58	0.4
WJ_NJC100	37.90	60	60	19	19	0.39
WJ_NJC110	93.86	60	60	25	25	0.4
WJ_NJC111	39.46	60	60	27	27	0.4
WJ_NJC120	12.04	60	60	38	53	0.34
WJ_NJC130	27.99	60	60	17	19	0.37
WJ_NJC140	39.93	60	60	4	51	0.48
WJ_NJC150	61.81	60	60	30	45	0.46
WJ_NJC160	34.73	60	60	37	37	0.46
WJ_NJC170	32.60	60	60	34	34	0.37
WJ_NJC180	35.21	60	60	55	55	0.39
WJ_NJC190	17.46	60	60	56	56	0.37
WV_NJC100	74.94	60	60	65	65	0.35
WV_NJC110	80.69	60	60	22	22	0.4
WV_NJC120	39.33	60	60	26	27	0.41
WV_NJC130	10.71	60	60	20	20	0.4
WV_NJC131	32.33	60	60	85	85	0.34
WV_NJC140	56.54	60	60	26	26	0.37
WV_NJC150	29.41	60	60	22	23	0.42
WV_NJC160	27.29	60	60	26	26	0.38
WV_NJC170	12.58	60	60	20	24	0.36
WV_NJC180	13.55	60	60	26	30	0.35
WJ_NJC155	112.80	60	60	15	15	0.34

APPENDIX D

Creek Structure Calibration Tables

Barneys Creek Structure Calibration

Station	ID	Culvert or Bridge Location	Invert Elevation (ft)	Max Head Elevation (ft)	DS Invert Elevation (ft)	Depth (ft)	Width (ft)	Length (ft)	WH/D	Inlet Nomograph Capacity (cfs)	HEC-RAS Capacity (cfs)	Manning's Equation Capacity (cfs)	
N/A	BA-01	7800 South to Airport Detention Basin	4620.6	N/A	4596.7	4	N/A	1330	#VALUE!	N/A	390	386.1	
N/A	BA-2A	Airport Rd. to 7800 South	4621.8	4630.78	4620.6	5.5	N/A	660	1.63	N/A	220	143.6	Increases with to 250 cfs with changes to Airport Rd. Crossing
4493	BA-2B	Airport Rd. Crossing	4625.95	4631.48	4621.8	3.5	N/A	113	1.58	180	185	386.7	
5507	BA-03	Railroad Crossing (4600 West)	4647.8	4656.57	4647.1	5.5	N/A	43.21	1.59	260	290	428.6	
5957	BA-04	4660 West	4658.6	4663.91	4657.4	3	5	59.94	1.77	105	135	737.7	
6911	BA-05	4800 West	4682.8	4687.04	4680.8	3	5	109.71	1.41	90	100	704.0	
9492	BA-06	Barney's Creek Trail #1 (5150 West)	4735.4	4738.76	4734.6	3	5	16.5	1.12	70	65	1148.1	
10009	BA-07	Barney's Creek Trail #2 (5220 West)	4742.3	4746.08	4742.1	3	5	16.63	1.26	80	90	571.8	
10648	BA-08	Amethyst Drive (5310 West)	4754.8	4759.42	4753	3.2	5	82.55	1.44	100	110	855.4	
11671	BA-09	Grizzly Way (5390 West)	4773.3	4778.92	4772.5	3.5	N/A	112.6	1.61	180	170	170.1	
13741	BA-10	5600 West	4809.2	4828.16	4785.5	3	N/A	1524.64	6.32	140	105	83.4	
14867	BA-11	Mountain View Corridor	4839.3	4847.06	4821	6	8	819.65	1.29	460	430	5355.3	
15442	BA-12	Maple Water Drive (5900 West)	4853.57	4860.51	4852.2	6	10	84.88	1.16	500	410/275	6676.6	
16044	BA-13	Birch Water Lane (5980 West)	4867.5	4874.65	4863.7	6	10	167.36	1.19	525	500/385	7918.9	
16321	BA-14	Fallwater Drive (6000 West)	4873.1	4881.87	4871.9	6	10	149.34	1.46	625	615/510	4710.9	
17413	BA-15	6160 West	4898.6	4907.44	4898	6	8	70.93	1.47	500	475/210	3296.3	
18655	BA-16	8600 South	4928	4936.01	4927.5	6	8	104.07	1.34	480	420/260	2484.2	
19646	BA-17	6400 West	4959.1	4966.02	4958.1	6	8	93.7	1.15	400	370/140	3702.6	
24053	BA-18	Bacchus Highway	5075.4	5082.72	5069.8	6	N/A	78.08	1.22	240	250	2274.5	
26155	BA-19	Farm Road (7320 West)	5135.34	5139.93	5132.1	2.5	N/A	42.88	1.84	40	40	226.1	
N/A	CH-01[1]	Grizzly Way (XXXX West)				4	N/A		2.00	150			
N/A	CH-02[1]	Clay Hollow Trail				5	9		1.40	400			
N/A	CH-03[1]	5600 West				4	10		1.5	300			
N/A	CH-04[1 2]	Uinta View Way				3.5	N/A		1.6	90 [2]			

Notes:

[1] Structures on Clay Hollow have not been surveyed. Capacities are based on field visits observations and measurements

[2] CH-04 includes an overflow channel that will convey runoff in excess of 42-inch pipe capacity

Bingham Creek Structure Calibration

ID	Culvert or Bridge Location	Existing Culvert/Bridge Size	Invert El.	Flood El.	Height (ft)	H/D	Inlet Nomograph Capacity	HEC-RAS Capacity	2002 Capacity	Estimated Capacity
BC-01	North Jordan Canal	6' x 12' Box	4294.3	4305.5	6	1.87	960	930		960
BC-02	Gravel Lane / 8050 South	6' X 20' Box	4308.8	4314.55	6.65	0.86		950		950
BC-03	No Name	Pipe 1 = 48" Pipe 2= 32"	4317.3	4321.81	4	1.13	105			105
BC-04	1300 West / Temple Drive	6' x 12'	4327.7	4338.79	6	1.85		1070		1070
BC-05	1500 West	4.75' CMP	4346.85	4355.78	4.75	1.88		350		350
BC-06	Pedestrian Bridge	5' X 20'	4353.71	4359	5	1.06		630		630
BC-07	1650 West	5' x 16'	4360.5	4367.7	5	1.44		850		850
BC-08	Redwood Road	5x 15'	4362.6	4370.38	5	1.56		800		800
BC-09	Pedestrian Bridge	3' High X 18'	4381.07	4385.9	3	1.61	300	690		690
BC-10	Sugar Factory Road / 8200 South	5' x 16'	4388.5	4396	5	1.50		830		830
BC-11	Pedestrian Bridge	9' High X 32'	4393.84	4402.5	9	0.96	700			700
BC-12	2200 West / South Jordan Canal	4' X 12'	4431.6	4439.7	4	2.02	570	500		570
BC-13	Club Ln.	8' x 11 CMP	4446.4	4452.78	8	0.80		360		360
BC-14	2700 West / Utah & Salt Lake Canal	US: 5' x 12' DS: 5' x 10'	4461.95	4477	5	2.00	780	920		780
BC-15	Apartment Complex near 8600 South	5' X 8'	4473.8	4483.57	5	1.95	520	430		520
BC-16	8600 South / Haun Dr.	5' x 8'	4483.1	4490.1	5	1.40	440	360		440
BC-17	3200 West	US: 5' x 12' DS: 5' x 8'	4523.5	4531.5	5	1.60	650	370		650
BC-18	Pagoda Grove Cir.	5' x 10'	4537.4	4546.27	5	1.77		610		610
BC-19	Utah Lake Distribution Canal	4' X 8'	4553.15	4562	4	2.21	400			400
BC-20	3400 West	5' x 10'	4555.5	4563.3	5	1.56		740		740
BC-21	Jordan Valley Hospital	5' X 10'	4562.25	4571.62	5	1.87	600			600
BC-22	3590 West	5' x 10'	4566.5	4575	5	1.70		1400		1400
BC-23	Bangerter Highway	DS: 7' CMP US: 7' X 13'	4592.8	4602.8	7	1.43		1130		1130
BC-24	Judd Lane / 3710 West	4' x 6 ' Double	4608	4616	4	2.00		1300		1300
BC-25	4000 West	5 x 10'	4645.1	4657.67	5	2.51		560		560
BC-26	Welby Jacobs Canal	10' x 4.5' Arch	4652.3	4665	10	1.27		1100		1100
BC-27	Laurel Ridge	8' CMP	4667.3	4682.5	8	1.90		2500		2500
BC-28	Private Bridge	5' x 16' Arch	4676.4	4686.5	5	2.02	600			600
BC-29	Skye Drive	4' CMP	4720.822	4737.89	4	2.50		130		130
BC-30	4800 West	10' x 12'	4771.7	4800	10	2.83	2000			2000
BC-31	Dirt Road	4' CMP	4859.23	4875.26	4	2.50	150	220		150
BC-32	Railroad	14.5' CMP	4895.793	4932.79	14.5	2.55		4000		4000
BC-33	Mountain View Corridor Northbound	39' x 100'	4928.01	4965.68	39	0.97		4000		4000
BC-34	Mountain View Corridor Southbound	39' x 100'	4938.34	4963.31	39	0.64		4000		4000
BC-35	Pedestrian Bridge west of Mountain View Corridor	10' High x 66.5'	4936.53	4945.54	10	0.90		3300		3300
BC-36	Bacchus Highway	8' x 6'	5122.138	5130.37	8	1.03		760		760
BC-37	Dirt Access Road	2.67' CMP	5227.92	5240.29	2.67	2.50	70	100		70

Wood Hollow & Wood Hollow South Structure Calibration

ID	Existing Culvert Size (Diameter)	Hand Method	HW/D or Slope	Estimated Capacity	Model Capacity	
WH-1	60" RCP	Manning's Full Pipe	0.0	200	165	
WH-2	48" RCP	Manning's Full Pipe	N/A	190-450	235	See Pipeline Table for Details
WH-3	42" to 48" RCP	Manning's Full Pipe	N/A	150-545	155 - 235	See Pipeline Table for Details
WH-4	30" to 42" RCP	Manning's Full Pipe	N/A	75-285	85 - 120	See Pipeline Table for Details
WH-5	48" RCP	Inlet Nomograph	1.9	140	140	
WH-6	39" CMP	Inlet Nomograph	1.6	70	70	
WH-7	48" RCP	Inlet Nomograph	5.7	280	280	
WH-8	48" RCP	Inlet Nomograph	14.1	350+	420	
WHS-1	72" RCP	Inlet Nomograph	1.4	250	N/A	
WHS-2	72" RCP	Inlet Nomograph	1.4	250	N/A	
WHS-3	10' x 6' Arch	Not a Restriction	4.2	Not a Restriction	1100	
WHS-4	4' CMP	Inlet Nomograph	3.1	180	170	
WHS-5	27' x 11' Box	Inlet Nomograph	1.3	4180	3980	
WHS-6	2' CMP	Manning's Full Pipe	N/A	55-75	55	See Pipeline Table for Details
WHS-7	2' CMP	Inlet Nomograph	2	30	30	
ULDC-33	5' RCP	Manning's Open Channel	0.00016	190	200	
ULDC-34	14' X 6'	Manning's Open Channel	0.0178	160	165	
ULDC-35	12' X 6'	Manning's Open Channel	0	200	200	
USLC-82	20'X7' Box	Manning's Open Channel	0.00025	800	750	
USLC-83	45' Footbridge	Not a Restriction	0.00025	4000	Not a Restriction	
USLC-85	48' Footbridge	Not a Restriction	0.00025	4000	Not a Restriction	

Wood Hollow Pipeline Calibration

Structure ID	Link-ID	Length	Diameter (in)	Slope	Manning's	ASSA	Range
WH-5	Link-03	80	48	0.0143	187	80	N/A
	Link-230	131	42	0.0287	185	80	N/A
WH-4	Link-04	326	42	0.0088	103	80	71-286
	Link-28	52	36	0.0098	72	80	
	Link-24	346	30	0.0388	88	80	
	Link-39	342	30	0.0306	78	85	
	Link-38	67	36	0.0377	141	85	
	Link-37	87	36	0.0386	142	85	
	Link-36	276	36	0.0173	95	100	
	Link-35	335	36	0.0287	123	110	
	Link-34	56	36	0.0161	92	120	
	Link-33	79	36	0.1568	287	155	
WH-3	Link-05	215	36	0.0525	166	155	150-548
	Link-06	248	36	0.0613	179	155	
	Link-07	164	42	0.0375	212	155	
	Link-12	166	48	0.0133	180	155	
	Link-13	130	48	0.0096	153	155	
	Link-11	56	48	0.0093	150	155	
	Link-10	111	48	0.0111	164	155	
	Link-09	79	48	0.011	164	160	
	Link-08	57	48	0.0128	177	165	
	Link-15	150	48	0.0231	237	190	
	Link-14	163	48	0.082	447	206	
	Link-20	134	48	0.0387	307	205	
	Link-19	149	48	0.0113	166	205	
	Link-32	60	48	0.02	221	205	
	Link-230	131	42	0.0287	185	80	
	Link-22	92	48	0.0547	365	237	
	Link-21	75	48	0.0616	387	253	
	Link-18	112	48	0.0736	423	276	
	Link-17	51	48	0.1236	549	235	
WH-2	Link-16	224	48	0.0148	190	235	189-448
	Link-25	65	48	0.0154	194	235	
	Link-26	198	48	0.0458	334	245	
	Link-27	42	48	0.0828	449	245	
WH-1	Link-31	104	36	0.0896	217	165	216-380
	Link-30	216	36	0.0896	217	165	
	Link-29	51	48	0.0595	381	165	
WHS-6	Link-235	125	24	0.0746	67	45	53-74
	Link-236	181	24	0.0921	75	45	
	Link-237	124	24	0.0477	54	55	

Beef Hollow Structure Calibration

Station	ID	Culvert or Bridge Location	Invert Elevation	Max Head Elevation	DS Invert Elevation	Depth	Width	Length	WH/D	Inlet Nomograph Capacity (cfs)	HEC-RAS Capacity	Manning's Equation Capacity	Final Capacity (cfs)
	BH-1	Jordan River Parkway & ULDC	4553.8	4562.8	4519	4	N/A	355	2.25	160	160	450.95	160
	BH-2	Dirt Road 1	4581.5	4591.5	4575.12	5	N/A	217	2.00	250	260	447.78	260
	BH-3	Redwood Road	4760	4768.5	4709.8	3.5	N/A	423.4	2.43	110	115	347.36	115
	BH-4	Dirt Road 2	4800.4	4802.36	4800	1.5	N/A	15	1.31	8	8.5	17.20	8.00

APPENDIX E

Canal Structure Calibration Tables

Utah Lake Distributing Canal Structure Calibration

ID	Culvert or Bridge Location	US X-Section	Culvert Slope	Culvert Size	Max Depth	Energy Slope	L. Side Slope (H:V)	R. Side Slope (H:V)	Bottom Width	Max Flow (man)
ULDC-04	ULDC Pipeline from 7800 South to 7550 South	1000		-		0.00023				See ASSA
ULDC-05	7800 South Dumpout	1090								
ULDC-06	7825 South - Control Structure	1092								
ULDC-07	8070 South	2810	-0.0016	6 x 12	4.6	0.00023	2:1	2:1	8.9	260
ULDC-08	Susan Way	6942	0.0000	5 x 8	7.7	0.00023	0:1	0:1	8	118
ULDC-09	3600 West/Old Bingham Hwy	7430	0.0000	6 x 8	7.6	0.00023	0:1	0:1	8	150
ULDC-10	3400 West	8796	0.0000	5 x 10	7.8	0.00023	2:1	2:1	20.1	160
ULDC-11	Bingham Creek - Dumpout	9195								
ULDC-12	9000 South	10152	0.0014	6 x 10	7.1	0.00023	2:1	2:1	8.6	204
ULDC-13	9400 South - Control Structure	12975								
ULDC-14	9425 South - Control Structure	13261								
ULDC-15	3200 West	13881	-0.0011	5 x 15	5.6	0.00023	1:1	1.5:1	9.4	271
ULDC-16	9600 South - Control Structure	14622								
ULDC-17	Shields Ln	16044	-0.0061	5 x 15	5.5	0.00023	2:1	2:1	8	271
ULDC-18	Wheadon Ln	17501	0.0091	N/A	3.8	0.00023	2:1	2:1	7.5	
ULDC-19	Jordan Parkway/10400 South	20374	0.0026	5 x 14	5.6	0.00023	1.5:1	1:1	12.8	248
ULDC-20	10755 South	22810	0.0000	6 x 12	5.14	0.00023	1:1	3:1	11.2	260
ULDC-21	11000 South - Farm Bridge	23157	0.0157	N/A	3.67	0.00023	2:1	1:1	6.2	
ULDC-22	Jarans Honor Dr	23649	0.0033	6 x 12	6.7	0.00023	1.5:1	2:1	6.57	260
ULDC-23	Alta Peak Road	25947	0.0018	6 x 12	6.3	0.00023	2:1	2:1	9.4	260
ULDC-24	3200 West	27286	-0.0039	7 x 12	7.5	0.00023	2:1	3:1	11	319
ULDC-25	11400 South	27491	0.0009	6 x 12	4.3	0.00023				260
ULDC-26	11800 South	30444	0.0000	4 x 10	4, 5.8	0.00023				118
ULDC-27	Midas Creek - Dumpout	30445								
ULDC-28	12600 South	35990	0.0026	6 x 12	6, 6.8	0.00023				260
ULDC-29	12730 South	36817	0.0000	6 x 9	6, 6	0.00023				176
ULDC-30	13400 South	41370	0.0044	5 x 12	5, 5.7	0.00023				204
ULDC-31	Sanborn Dr	42676	0.0000	6 x 12	6, 7.1	0.00023				260
ULDC-32	Rose Creek - Dumpout	42812								
ULDC-33	Bangerter Hwy	44126	0.0009	5 x 17	5, 5.8	0.00023				317
ULDC-34	13800 South	44258	0.0038	5 x 17	5, 5.10	0.00023				317
ULDC-35	14100 South - Farm Bridge	46471	-0.0046	N/A	4.95	0.00023				
ULDC-36	14400 South	48651	-0.0023	5 x 14	5, 5.3	0.00023				248
ULDC-37	2700 West	51707	0.0000	5 x 12	5, 5	0.00023				204
ULDC-38	14775 South - Control Structure	52059								
ULDC-39	2200 West	54857	0.0027	5 x 12	5, 6.6	0.00023				204
ULDC-40	Redwood Rd	55910	-0.0008	5 x 12	5, 3.2	0.00023				204
ULDC-41	15050 South - Control Structure	57332								
ULDC-42	Iron Horse Blvd	58715	0.0016	60"	8	0.00023	1:1	2:1	10.12	64
ULDC-43	Wood Hollow - Proposed Dumpout Structure	58715								
ULDC-44	15730 South	60989	0.0000	6 x 14	5.9	0.00023	2:1	2:1	9	319
ULDC-45	Porter Rockwell Blvd	62112	0.0022	6 x 12	9.75	0.00023	3:1	2:1	8	260
ULDC-46	Wood Hollow South - Proposed Dumpout Structure	62247								
ULDC-47	16500 South - Farm Bridge	66617	0.0178	N/A	5.7	0.00023	1:1	1:2	11	
ULDC-48	16550 South - Farm Bridge	67399	-0.0168	N/A	5.8	0.00023	1:1	2:1	8.1	

Utah & Salt Lake Canal Structure Calibration

Structure ID	Manning	depth	base	Side slope m:1	Area	Wetted Perimeter	R	Slope	Velocity	Flow	Width	Height	Type
USLC-01	0.013	5.71	13	0	74.23	24.42	3.04	0.00027	4.0	293	13		Bridge
USLC-02	0.013	4	16	0	64	24	2.67	0.00027	3.6	232	16	4	
USLC-03	0.013	5.3	17	0	90.1	27.6	3.26	0.00027	4.1	373	17	5.3	
USLC-04	0.013	4.5	16	0	72	25	2.88	0.00027	3.8	274	16	4.5	
USLC-05	0.013	7	16	0	112	30	3.73	0.00027	4.5	508	16	7	Arch
USLC-06	0.013	5	14	0	70	24	2.92	0.00027	3.8	269	14	5	
USLC-08	0.013	4.81	14.85	1	94.5646	28.454734	3.32	0.00027	4.2	397	23		Bridge
USLC-09	0.013	6	20	0	120	32	3.75	0.00027	4.5	545	20	6	Arch
USLC-11	0.013	4.8	6	1	51.84	19.57645	2.65	0.00027	3.6	187	20		Bridge
USLC-12	0.013	4.8	12.8	1.5	96	30.106646	3.19	0.00027	4.1	392	25		Bridge
USLC-14	0.013	4.8	15	1	95.04	28.57645	3.33	0.00027	4.2	399	20		Bridge
USLC-15	0.013	6	17.3	1	139.8	34.270563	4.08	0.00027	4.8	672	25		Bridge
USLC-16	0.013	5.7	8.7	1.5	98.325	29.251642	3.36	0.00027	4.2	416	18		Bridge
USLC-17	0.013	5.2	20	0	104	30.4	3.42	0.00027	4.3	445	20	5.2	Arch
USLC-18	0.013	4.5	10.9	2	89.55	31.024612	2.89	0.00027	3.8	342	24		Bridge
USLC-19	0.013	6.25	15	1.5	152.3438	37.534695	4.06	0.00027	4.8	730	24		Bridge
USLC-20	0.013	4.5	15.5	1.5	100.125	31.724981	3.16	0.00027	4.1	406	24		Bridge
USLC-21	0.013	4.5	16.7	1.5	105.525	32.924981	3.21	0.00027	4.1	432	24		Bridge
USLC-22	0.013	6.9	10.7	1.5	145.245	35.578304	4.08	0.00027	4.8	699	24		Bridge
USLC-23	0.013	6.7	20	1	178.89	38.950462	4.59	0.00027	5.2	931	20		Bridge
USLC-25	0.013	4.5	17.1	1	97.2	29.827922	3.26	0.00027	4.1	402	25		Bridge
USLC-26	0.013	4.2	16.3	1.33	91.9212	30.27761	3.04	0.00027	3.9	363	22		Bridge
USLC-27	0.013	5.3	13.9	2	129.85	37.602321	3.45	0.00027	4.3	559	24		Bridge
USLC-28	0.013	4.2	15.2	1	81.48	27.079394	3.01	0.00027	3.9	320	24		Bridge
USLC-29	0.013	7	20	0	140	34	4.12	0.00027	4.8	677	20	7	
USLC-30	0.013	6	26	0	156	38	4.11	0.00027	4.8	753	26	6	
USLC-31	0.013	5.3	18.3	1	125.08	33.290664	3.76	0.00027	4.6	569	24		Bridge
USLC-32	0.013	5.5	26	0	143	37	3.86	0.00027	4.6	663	26	5.5	
USLC-34	0.013	5	18.2	1.5	128.5	36.227756	3.55	0.00027	4.4	563	22		Bridge
USLC-35	0.013	6.33	10	3	183.5067	50.034435	3.67	0.00027	4.5	822	22		Bridge
USLC-36	0.013	5.2	9.7	2	104.52	32.955107	3.17	0.00027	4.1	425	22		Bridge
USLC-37	0.013	6.3	12	0.5	95.445	26.087228	3.66	0.00027	4.5	427	20		Bridge
USLC-39	0.013	5.1	13.3	1	93.84	27.724978	3.38	0.00027	4.2	398	22		Bridge
USLC-40	0.013	5.3	12.3	1.33	102.5497	29.938413	3.43	0.00027	4.3	439	24		Bridge
USLC-41	0.013	7	18	0	126	32	3.94	0.00027	4.7	592	18	7	Arch
USLC-43	0.013	6.5	26	0	169	39	4.33	0.00027	5.0	846	26	6.5	
USLC-45	0.013	5.7	20	0	114	31.4	3.63	0.00027	4.4	507	20		Bridge
USLC-47	0.013	5.4	12.7	1.67	117.2772	33.722305	3.48	0.00027	4.3	507	34		Bridge
USLC-49	0.013	8	18	0	144	34	4.24	0.00027	4.9	710	18	8	Arch
USLC-50	0.013	4.1	25	1.67	130.5727	40.96138	3.19	0.00027	4.1	533	20		Bridge
USLC-51	0.013	5.2	15.25	2	133.38	38.505107	3.46	0.00027	4.3	575	25		Bridge
USLC-52	0.013	6.2	18.9	1.33	168.3052	39.533615	4.26	0.00027	4.9	833	20		Bridge
USLC-53	0.013	5	16	0	80	26	3.08	0.00027	4.0	319	16	5	
USLC-56	0.013	7.6	20	0	152	35.2	4.32	0.00027	5.0	759	20	7.6	Arch
USLC-57	0.013	6.1	12.2	3	186.05	50.779787	3.66	0.00027	4.5	833	20	7	
USLC-58	0.013	6.1	15.4	1.3	142.313	35.409488	4.02	0.00027	4.8	678	20		Bridge
USLC-59	0.013	7	16.6	1.3	179.9	39.561707	4.55	0.00027	5.2	930	22		Bridge
USLC-60	0.013	7	13.9	1	146.3	33.69899	4.34	0.00027	5.0	733	20		Bridge

ID	Capacity
USLC-01	290
USLC-02	230
USLC-03	370
USLC-04	270
USLC-05	510
USLC-06	270
USLC-08	400
USLC-09	550
USLC-11	190
USLC-12	390
USLC-14	400
USLC-15	670
USLC-16	420
USLC-17	440
USLC-18	340
USLC-19	730
USLC-20	410
USLC-21	430
USLC-22	700
USLC-23	930
USLC-25	400
USLC-26	360
USLC-27	560
USLC-28	320
USLC-29	680
USLC-30	750
USLC-31	570
USLC-32	660
USLC-34	560
USLC-35	820
USLC-36	420
USLC-37	430
USLC-39	400
USLC-40	440
USLC-41	590
USLC-43	850
USLC-45	510
USLC-47	510
USLC-49	710
USLC-50	530
USLC-51	580
USLC-52	830
USLC-53	320
USLC-56	760
USLC-57	830
USLC-58	680
USLC-59	930
USLC-60	730

USLC-61	0.013	7.5	18	0	135	33	4.09	0.00027	4.8	650	18	7.5	Arch
USLC-62	0.013	6	20	0	120	32	3.75	0.00027	4.5	545	20	6	
USLC-63	0.013	6.5	19.7	1.3	182.975	41.021585	4.46	0.00027	5.1	934	26		Bridge
USLC-65	0.013	8	24	0	192	40	4.80	0.00027	5.4	1029	24	8	
USLC-66	0.013	8	13.2	1.3	188.8	39.441951	4.79	0.00025	5.1	972	16		Bridge
USLC-67	0.013	7.5	14	1	161.25	35.213203	4.58	0.00025	5.0	806	22		Bridge
USLC-68	0.013	7.2	27	1	246.24	47.364675	5.20	0.00025	5.4	1339	20		Bridge
USLC-70	0.013	7	24	0	168	38	4.42	0.00025	4.9	820	24	7	
USLC-71	0.013	6	22	0	132	34	3.88	0.00025	4.5	591	22	6	
USLC-72	0.013	7	20	0	140	34	4.12	0.00025	4.7	652	20	7	
USLC-74	0.013	7.75	20	0	155	35.5	4.37	0.00025	4.8	750	20	7.75	
USLC-75	0.013	8.5	23	0	195.5	40	4.89	0.00025	5.2	1020	23	8.5	
USLC-76	0.013	7.5	20	1.3	223.125	44.601829	5.00	0.00025	5.3	1183	20		Bridge
USLC-77	0.013	7	20	0	140	34	4.12	0.00025	4.7	652	20	7	
USLC-78	0.013	10.9	24	1	380.41	54.829856	6.94	0.00025	6.6	2508	60		Bridge
USLC-79	0.013	7	20	0	140	34	4.12	0.00025	4.7	652	20	7	
USLC-80	0.013	10	60	0	600	80	7.50	0.00025	6.9	4166			Bridge
USLC-81	0.013	10	60	0	600	80	7.50	0.00025	6.9	4166			Bridge

USLC-61	650
USLC-62	550
USLC-63	930
USLC-65	1030
USLC-66	970
USLC-67	810
USLC-68	1340
USLC-70	820
USLC-71	590
USLC-72	650
USLC-74	750
USLC-75	1020
USLC-76	1180
USLC-77	650
USLC-78	2510
USLC-79	650
USLC-80	4170
USLC-81	4170

South Jordan Canal Structure Calibration

ID	Structure Location	Structure Type	Existing Structure Size (Span ft x Rise ft)	Estimated Culvert Capacity (cfs)
SJC-001	3900 West	Bridge	8' x 5'	130
SJC-002	Bangerter Highway (3800 West)	Culvert	6' x 4'	65
SJC-003	3600 West	Bridge	5' x2.5'	35
SJC-004	4700 South	Bridge	20' x 5'	425
SJC-005	4700 South - Dumpout	Dumpout	12' Weir	135
SJC-006	3250 West	Bridge	8' x 3'	65
SJC-007	3200 West	Bridge	12' x 4'	165
SJC-008	3145 West	Bridge	10' x 2.5'	70
SJC-009	3100 West	Bridge	11' x 3'	100
SJC-010	4960 South	Bridge	12' x 3'	115
SJC-011	4965 South	Bridge	10' x 4'	80
SJC-012	4970 South	Bridge	8' x 3.3'	75
SJC-013	4980 South	Bridge	10' x 3.5'	110
SJC-014	W Bigarade Ln.	Bridge	12' x 2.5'	85
SJC-015	5080 South	Bridge	13.5' x 4'	190
SJC-016	5090 South	Bridge	10' x 3.3'	60
SJC-017	5100 South	Bridge	12' x 2.5'	50
SJC-018	5245 South	Bridge	13' x 4'	115
SJC-019	5300 South	Bridge	12.6' x 4'	110
SJC-020	Jordan Canal Rd./ 5319 South	Bridge	11' x 4'	90
SJC-021	5350 South	Bridge	10' x 5'	110
SJC-022	2700 West / 5400 South	Culvert	10' x 4'	135
SJC-023	By Marsha Brooks Circle	Bridge	17.41' x 5'	225
SJC-024	5400 South - Dumpout	Dumpout	10' Weir	175
SJC-025	5505 S 2750 West	Bridge	11' x 2.5'	105
SJC-026	5629 S 2750 West	Bridge	11' x 4'	150
SJC-027	5644 S 2005 West	Bridge	11' x 4'	90
SJC-028	5646 S 2005 West	Bridge	11' x 4'	150
SJC-029	5650 S 2005 West	Bridge	12' x 4'	165
SJC-030	5691 S 2005 West	Bridge	15.5' x 3'	115

SJC-031	5723 S Jordan Canal Road	Bridge	20' x 4'	190
SJC-032	Player Ridge Cir.	Bridge	10.7' x 3.3'	110
SJC-033	Angle Ln.	Bridge	12' x 2.5'	85
SJC-034	5824 S 2005 West	Bridge	12' x 2.5'	85
SJC-035	5834 S 2005 West	Bridge	13' x 2.5'	95
SJC-036	5860 S 2005 West	Bridge	16' x 3'	95
SJC-037	5873 S 2005 West	Bridge	17.2' x 4'	160
SJC-038	Farm Ridge Rd.	Bridge	13.5' x 3.5'	160
SJC-039	5924 S 2005 West	Bridge	13' x 3.2'	135
SJC-040	5947 S 2005 West	Bridge	12.5' x 3.3'	75
SJC-041	5976 S 2005 West	Bridge	13' x 3.7'	100
SJC-042	Canal Ridge	Bridge	12' x 3'	70
SJC-043	5990 S 2005 West	Bridge	12' x 3.1'	115
SJC-044	5992 S 2005 West	Bridge	13' x 3'	75
SJC-045	6024 S Jordan Canal Road	Bridge	12' x 4.3'	115
SJC-046	6026 S Jordan Canal Road	Bridge	11' x 3.3'	70
SJC-047	6028 S Jordan Canal Road	Bridge	11' x 4.7'	115
SJC-048	6030 S Jordan Canal Road	Culvert	13' x 6'	320
SJC-049	6032 S Jordan Canal Road	Bridge	14' x 4.7'	155
SJC-050	Labrum Park Ln./ 6150 South	Bridge	14' x 6'	220
SJC-051	Jordan Canal Road	Bridge	12' x 5'	140
SJC-052	6000 South	Bridge	12.6' x 5'	150
SJC-053	Bennion Boulevard / 6200 South	Culvert	12' x 4.5'	220
SJC-054	6296 South	Culvert	12' x 6'	300
SJC-055	Redwood Road	Bridge	12' x 3'	115
SJC-056	Redwood Road/ 6670 South	Bridge	14' x 4.5'	245
SJC-057	1780 W 6670 South	Bridge	12.3' x 3.5'	90
SJC-058	1830 W 6670 South	Bridge	13.2' x 4'	115
SJC-059	1895 W 6670 South	Bridge	12.3' x 4'	105
SJC-060	1905 W 6670 South	Bridge	13' x 4'	115
SJC-061	1900 West	Bridge	13' x 4.5'	135
SJC-062	by 24993	Bridge	10' x 3'	90
SJC-063	2200 West	Bridge	16' x 3.5'	120
SJC-064	7000 South	Culvert	15' x 4'	225

SJC-065	7000 South - Dumpout	Dumpout	16' Weir	360
SJC-066	7110 South	Bridge	16' x 4'	145
SJC-067	7200 South	Bridge	15' x 4'	135
SJC-068	Harvest Ln./ 7305 South	Bridge	18' x 3.5'	140
SJC-069	7310 South	Bridge	14' x 3.5'	100
SJC-070	7360 South	Bridge	18' x 3.3'	110
SJC-071	7390 South	Bridge	15' x 3'	90
SJC-072	7395 South	Bridge	15' x 3'	90
SJC-073	7400 South	Bridge	15' x 3 '	90
SJC-074	7410 South	Bridge	15' x 3.5'	110
SJC-075	7500 South	Culvert	16' Wide Arch	110
SJC-076	7510 South	Bridge	13.5' x 3.5'	80
SJC-077	7560 South	Bridge	14' x 3.5'	100
SJC-078	By 7560 South	Bridge	16' x 3.7 '	130
SJC-079	7600 South	Bridge	18' x 4'	170
SJC-080	7640 South	Bridge	14' x 4'	125
SJC-081	7680 South	Bridge	18' x 3.5'	140
SJC-082	7800 South - Dumpout	Dumpout	28' Weir	1030
SJC-083	7800 South	Bridge	16' x 3.5'	120
SJC-084	Bueno Vista Dr. / 8070 South	Bridge	18' x 4'	170
SJC-085	8120 South	Bridge	14' x 4'	125
SJC-086	Pauline Way / 8190 South	Bridge	14' x 4'	125
SJC-087	UTA Trax Red Line	Culvert	11' x 4'	155
SJC-088	Sugar Factory Rd./ 2200 West	Culvert	11' x 4'	155
SJC-089	Bingham Creek - Dumpout	Dumpout	14' Weir	145
SJC-090	Gardner Ln./ 8660 South	Bridge	17' x 4'	160
SJC-091	9000 South	Bridge	20' x 4'	190
SJC-092	Willow Cove Apartments	Bridge	18' x 4.5'	200
SJC-093	Redwood Rd. / Brigadoon Park Dr.	Bridge	18' x 5'	230
SJC-094	Kodiak Creek Ct. / 9635 South	Bridge	15' x 5'	185
SJC-095	9800 South	Bridge	13' x 5'	250
SJC-096	Reunion Avenue/ 10000 South	Bridge	14' x 5'	170
SJC-097	10075 South - Wood Bridge	Bridge	19' x 4'	180
SJC-098	Wheadon Glenn Cv.	Bridge	12' x 5'	140

Section 3: Canals and Misc. Creeks

SJC-099	1300 West	Bridge	16' x 6 1/2' CMP to 12' x 4'	260
SJC-100	Holt Farm Lane	Bridge	14' x 6'	220
SJC-101	1299 West	Bridge	14' x 8.5'	345
SJC-102	By 10400 South	Bridge	11' x 5'	125
SJC-103	South Jordan Parkway	Bridge	14' x 6'	220
SJC-104	10400 South - Dumpout	Dumpout	10' Weir	410
SJC-105	1300 West	Culvert	16' x 6.4'	475
SJC-106	10775 South	Culvert	14' x 6'	365
SJC-107	11025 South - Foot Bridge	Bridge	19' x 6'	320
SJC-108	11400 South	Culvert	18' x 4'	280
SJC-109	Midas Creek - Dumpout	Dumpout	15' Weir	170
SJC-110	12040 South	Culvert	14' x 6'	365
SJC-111	12600 South	Bridge	16' x 6'	260
SJC-112	12800 South - Control Structure	Control Structure	N/A	N/A
SJC-113	12800 South	Bridge	17' X 4'	160
SJC-114	13034 South	Bridge	17' X 4'	160
SJC-115	13200 South	Bridge	17' X 7'	345
SJC-116	1300 West	Bridge	20' X 5.5'	305
SJC-117	1300 West	Bridge	18' X 5'	235
SJC-118	Bangerter Highway (13800 South)	Bridge	11' X 6.5'	175
SJC-119	13970 South / Marketview Dr.	Culvert	13' X 6'	330
SJC-120	Rose Creek - Dumpout	Dumpout	15' Weir	290
SJC-121	14400 South	Culvert	14' X 6.5'	405
SJC-122	By 14600 South	Bridge	18' X 4.4'	180
SJC-123	14600 South	Culvert	12' X 6'	300
SJC-124	14725 South - 1690 West	Bridge	18' X 6'	300
SJC-125	14775 South - 1690 West	Bridge	17' X 6'	280
SJC-126	14825 South - 1690 West	Bridge	18' X 4'	170
SJC-127	15000 South - 1690 West	Bridge	20' X 4'	190
SJC-128	15025 South - 1690 West	Bridge	16.5' X 5.5'	240
SJC-129	Rock Hollow Dr.	Culvert	14' X 6'	365
SJC-130	By Cowboy Circle	Bridge	22.5' X 4'	220
SJC-131	Iron Horse Boulevard	Culvert	14' X 6'	365
SJC-132	Broad Crested Weir	Control Structure	N/A	N/A

Section 3: Canals and Misc. Creeks

SJC-133	Railroad	Culvert	18' X 13'	800

Section 3: Canals and Misc. Creeks

North Jordan Canal Structure Calibration

ID	Structure Type	Existing Culvert Size	Approximate slope (ft/ft)	Depth (ft)	Base (ft)	Side Slope (m:1)	Area (ft^2)	Wetted Perimeter (ft)	Hydraulic Radius (ft)	Velocity (fps)	Estimated Capacity (cfs)	Estimated Capacity Round (cfs)
NJC-01	Culvert	5' Pipe	0.00463	5			19.63	78.54	0.25	3.09	60.77	90.00
NJC-02	Culvert	3.5' Pipe	0.00839	3.5			9.62	38.48	0.25	4.17	40.08	90.00
NJC-03	Dumpout											N/A
NJC-04	Bridge	11.5' Span	0.0024	2.4	7.1		17.04	11.90	1.431932773	7.13	121.55	120.00
NJC-05	Bridge	12' Span	0.00035	3.2	12		38.40	18.40	2.086956522	3.50	134.47	135.00
NJC-06	Dumpout											N/A
NJC-07	Dumpout											N/A
NJC-08	Bridge	28' Span	0.00035	3	10	3	57.00	28.97	1.967303691	3.37	191.90	190.00
NJC-09	Dumpout											N/A
NJC-10	Dumpout											N/A
NJC-11	Bridge	18' Span	0.00035	4.1	14.3	1	75.44	25.90	2.913129219	4.37	329.95	330.00
NJC-12	Bridge	20' Span	0.00035	5.6	9	1	81.76	24.84	3.291572461	4.74	387.93	390.00
NJC-13	Bridge	22' Span	0.00035	5.6	8.3	2	109.20	33.34	3.274955812	4.73	516.38	515.00
NJC-14	Culvert	9' X 6' Box	0.00035	6	9		54.00	21.00	2.571428571	4.02	217.33	220.00
NJC-15	Dumpout											N/A
NJC-16	Bridge	18' Span	0.00035	4.7	17	0	79.90	26.40	3.026515152	4.49	358.47	360.00
NJC-17	Bridge	12.8' X 6.2' Arch	0.00035	6.2	12.8	-1	40.92	30.34	1.34888137	2.62	107.12	140.00
NJC-18	Bridge	15' Span	0.00035	5	5	2	75.00	27.36	2.741159964	4.20	314.99	315.00
NJC-19	Bridge	28' Span	0.00045	4	7.7	1	46.80	19.01	2.461382008	4.43	207.43	210.00
NJC-20	Bridge	30' Span	0.00045	4.4	10.3	2	84.04	29.98	2.80344543	4.83	406.25	405.00
NJC-21	Bridge	28.5' Span	0.00045	3.3	9.3	2	52.47	24.06	2.18097489	4.09	214.55	215.00
NJC-22	Bridge	17' Span	0.00045	4.6	5	2	65.32	25.57	2.554373769	4.54	296.77	300.00
NJC-23	Bridge	18' Span	0.00045	3.5	7.3	1.5	43.93	19.92	2.205133439	4.12	180.93	180.00
NJC-24	Bridge	19' Span	0.00045	4.6	9.7	2	86.94	30.27	2.871977453	4.91	427.09	430.00
NJC-25	Bridge	24' Span	0.00045	4.4	5.1	2	61.16	24.78	2.468378621	4.44	271.60	270.00
NJC-26	Dumpout		0.00045									N/A
NJC-27	Bridge	28' Span	0.00045	5.2	3.3	3	98.28	36.19	2.715840838	4.73	465.14	470.00
NJC-28	Bridge	13.5' Span	0.00045	4.4	13.5	0	59.40	22.30	2.66367713	4.67	277.52	280.00
NJC-29	Bridge	50' Span	0.00045								Not a Restricti	Not a Restriction
NJC-30	Bridge	54' Span	0.00045								Not a Restricti	Not a Restriction
NJC-31	Bridge	21' X 8' Arch	0.00045	8	21	-1	104.00	43.63	2.383822082	4.34	451.23	450.00
NJC-32	Bridge	22' Span	0.00045	5.6	11	1	92.96	26.84	3.463591615	5.57	517.40	520.00
NJC-33	Culvert	18' X 6' Box	0.00045	18	6		108.00	42.00	2.571428571	4.56	492.86	495.00
NJC-34	Dumpout		0.00045									N/A
NJC-35	Culvert	12' X 6' Box	0.00045	12	6		72.00	30.00	2.4	4.36	313.80	315.00
NJC-36	Dumpout		0.00045									N/A
NJC-37	Bridge	21' Span	0.00045	3	20	1	69.00	28.49	2.422303613	4.39	302.59	305.00
NJC-38	Bridge	32' Span	0.00045	3.5	20	1.5	88.38	32.62	2.709274854	4.73	417.59	420.00
NJC-39	Bridge	24' Span	0.00045	5	5	2	75.00	27.36	2.741159964	4.76	357.16	360.00
NJC-40	Bridge	46' Span	0.00045								Not a Restricti	Not a Restriction
NJC-41	Bridge	19.4' X 6.2' Arch	0.00045	6.2	19.4	-1	81.84	36.94	2.215709609	4.13	338.19	340.00
NJC-42	Bridge	25' Span	0.00045	3.5	8.5	1.5	48.13	21.12	2.27870739	4.21	202.62	205.00
NJC-43	Culvert	9' X 5' Box	0.00045	5	9		45.00	19.00	2.368421053	4.32	194.40	195.00
NJC-44	Culvert	25' X 4' Box	0.00045	4	25		100.00	33.00	3.03030303	5.09	509.14	510.00
NJC-45	Dumpout		0.00045									N/A
NJC-46	Bridge	15.7' Span	0.00045	6	15.7	0	94.20	27.70	3.400722022	5.50	517.94	520.00
NJC-47	Bridge	37' Span	0.00045								Not a Restricti	Not a Restriction

NJC-48	Dumpout		0.00045									N/A
NJC-49	Bridge	20' Span	0.00045	5	20	0	100.00	30.00	3.333333333	5.43	542.54	545.00
NJC-50	Bridge	13.3' Span	0.00045	4.5	13.3		59.85	22.30	2.683856502	4.70	281.03	280.00
NJC-51	Bridge	20' Span	0.00045	4.3	11.6	1.5	77.62	27.10	2.863613152	4.90	380.54	380.00
NJC-52	Dumpout		0.00045									N/A
NJC-53	Culvert	20' X 7.7' Arch	0.00045	7.7	20	-1	94.71	41.78	2.266934392	4.20	397.38	400.00
NJC-54	Bridge	22' Span	0.00045	3.5	9.5	2	57.75	25.15	2.295996639	4.23	244.37	245.00
NJC-55	Bridge	35.5' Span	0.00045	4.6	3.5	3	79.58	32.59	2.441631981	4.41	350.84	350.00
NJC-56	Bridge	34' Span	0.00045	4.8	7	2	79.68	28.47	2.799103948	4.83	384.78	385.00
NJC-57	Bridge	38' Span	0.00045	7.5	6	1	101.25	27.21	3.720620405	5.84	591.09	590.00
NJC-58	Bridge	37' Span	0.00045	5.9	11.7	2	138.65	38.09	3.640483338	5.75	797.77	800.00
NJC-59	Bridge	36' Span	0.00045								Not a Restricti	Not a Restriction
NJC-60	Bridge	20' Span	0.00045	6.25	20		125.00	32.50	3.846153846	5.97	746.07	745.00
NJC-61	Bridge	38' Span	0.00045								Not a Restricti	Not a Restriction

APPENDIX F

Barneys Creek Memo

TECHNICAL MEMORANDUM

TO:	Tamaran Woodland, P.E. Salt Lake County Engineering Flood Control Division 2001 South State Street, N3100 Salt Lake City, Utah 84114
COPIES:	File
FROM:	Kameron Ballentine, P.E., and Craig Bagley, P.E. Bowen Collins & Associates 154 East 14075 South Draper, Utah 84020
DATE:	December 14, 2021
SUBJECT:	Barneys Creek
JOB NO.:	022-18-02

SECTION 1
INTRODUCTION

Salt Lake County (SLCo) retained Bowen Collins and Associates (BC&A) to complete an update to the Southwest Canal and Creek Study. The reach of Barneys Creek that extends from a point on the east face of the Oquirrh Mountains on land owned by Kennecott Mining Company to a storm water detention facility located at the South Valley Regional Airport is included with that study. There is currently significant development pressure in the Barneys Creek drainage area. Work was performed as part of the Southwest Canal and Creek Study Update to estimate the existing conveyance capacity of the study reach of Barneys Creek, how much of that capacity is currently being utilized during a 100-year design storm, and how much capacity is available for future development. West Jordan City is in the process of updating their City-wide storm drain master plan and has requested that information from the Southwest Canal and Creek Study Update be provided to them for use in their master planning efforts. The purpose of this Technical Memorandum is to summarize the analyses, results, and alternatives associated with Barneys Creek to allow West Jordan City to provide review comments before the Southwest Canal and Creek Study is completed.

SECTION 2
BARNEYS CREEK EXISTING CONDITIONS

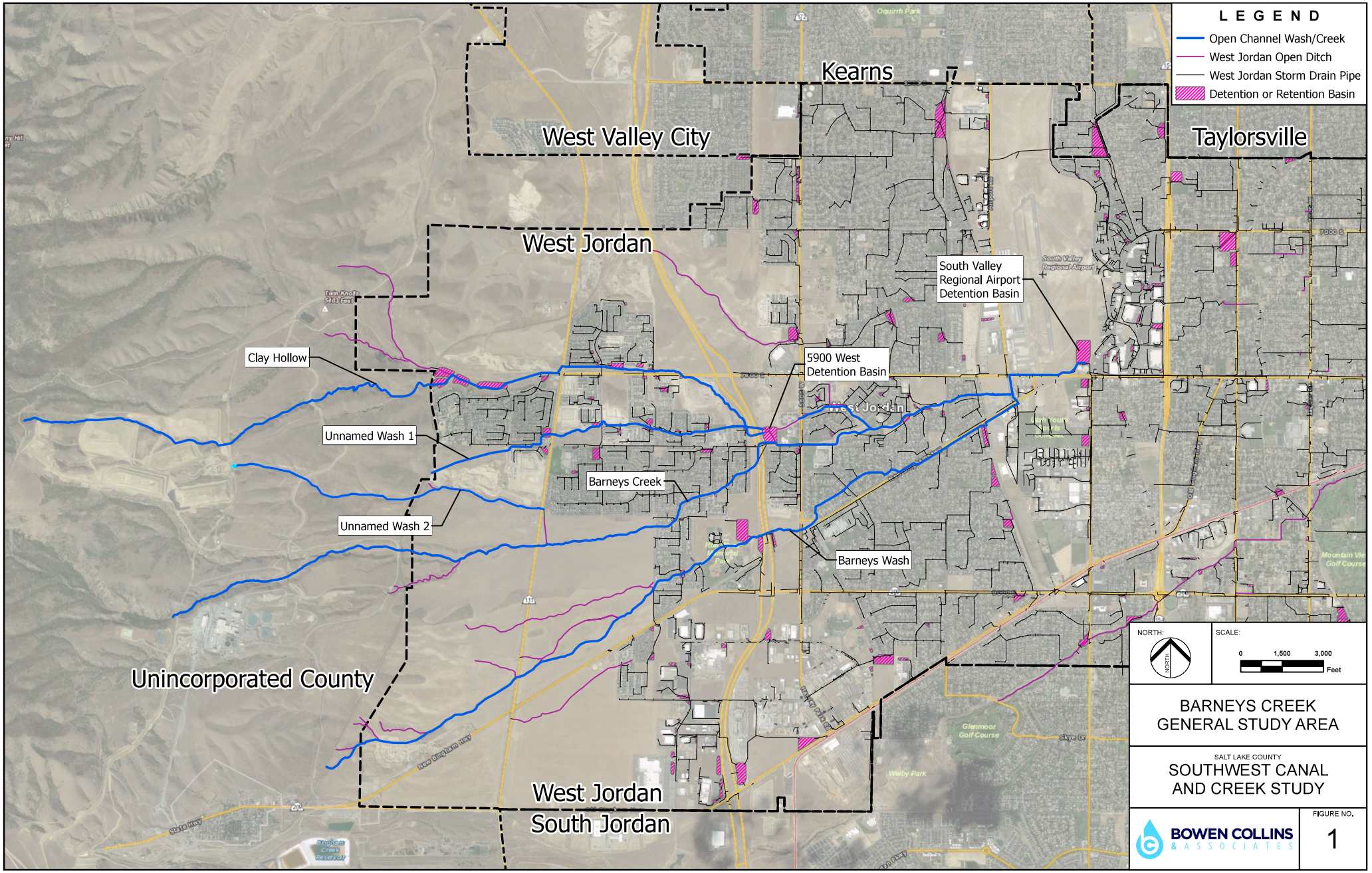
The drainage area for Barneys Creek is approximately 16.0 square miles at the detention basin east of the Mountain View Corridor at approximately 5900 West and 8200 South (5900 West Detention Basin) and 22.2 square miles at the South Valley Regional Airport Detention Basin located at approximately 4000 West 7700 South. The Barneys Creek Drainage area includes Clay Hollow, Barneys Wash and two unnamed washes shown on Figure 1. Runoff from the two unnamed washes, Clay Hollow and Barneys Creek combine in a detention basin at 5900 West. The Barneys Creek drainage area east of State Road 111 (SR-111 or Bacchus Highway) is located in West Jordan City and is mostly developed, with developed areas reportedly detaining peak storm water discharges to 0.2 cfs per acre (cfs/ac) for the 100-year design storm. Most of the area west of Bacchus Highway is undeveloped, though large portions of the area west of Bacchus Highway are in the process of being developed or are planned for development. Discharge rates for the undeveloped areas in the Barneys Creek drainage are estimated to be 0.02 cfs/ac during the 100-year design storm as described in the following sections. Figure 1 shows a map of the study area.

Pre-development Discharge Rates

The challenge with utilizing a rainfall-runoff computer model to estimate runoff in an ungaged watershed like that of Barneys Creek is determining how to calibrate the model or determining if the model results are reasonable or accurate. FEMA has published Guidelines and Specifications for how to perform a hydrologic study in an ungaged watershed. FEMA stipulates that on streams with limited or no stream gage data, runoff estimates should be computed using regional regression equations that are based on actual stream gage records. If no reliable regression equations are available, a computerized hydrologic model of an ungaged watershed can be used to estimate runoff for a design storm event. The Barneys Creek analysis calibrated the hydrologic model to the peak discharges associated with the regional regression equations published by the USGS. The hydrologic model was calibrated to approximately match discharge estimates from the current regression equation analysis (published in 2008) published by the USGS. This issue is discussed in more detail below.

Regional Regression Equations

The USGS regional regression equations have been developed to estimate peak runoff values for discharges with specified return intervals in natural, undeveloped areas on ungaged streams. When using a regression equation to estimate a peak discharge associated with a specific return interval, one of the required input parameters is the total drainage area at the point on the channel where the discharge value is desired to be computed. One of the key locations in the area where a 100-year discharge estimate was desired is where Barneys Creek crosses under Bacchus Highway. This location was selected because it is upstream of most development and most of the watershed upstream of this point is undeveloped land. It is important to note that Clay Hollow and the Unnamed Wash north of Barneys Creek were not included in the regional regression equation analysis upstream of Bacchus Highway because there is more development in those drainage areas. Though if those areas were



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undeveloped and were included in the regional regression equation, they would produce similar unit discharge rates.

The USGS StreamStats online computer program is the current standard regional regression equation for estimating peak flow rates on ungaged streams and rivers. The USGS regression equation associated with estimating the magnitude of a 100-year flood in the Barneys Creek drainage area is:

$$PK100 = 6.92\ DRNAREA^{0.613}\ 1.06^{PRECIP}$$

Where: PK100 = peak discharge associated with the 100-year flood

DRNAREA = drainage area associate with a point in the watershed (in square miles)

PRECIP = mean annual precipitation of the drainage basin (in inches).

StreamStats has some online GIS applications integral with the program that were used to estimate key physical and hydrologic drainage basin parameters and runoff values for the watershed that is tributary to the Barneys Creek crossing at Bacchus Highway. A summary of the StreamStats Analysis is included in Appendix A. The results of the analysis are summarized in Table 1.

Table 1
Summary of StreamStats Analysis for Barneys Creek Crossing at Bacchus Highway

Description	Value
Drainage Area	6.62 Square Miles
Mean Basin Elevation	6530 Feet
Basin-wide Mean Annual Precipitation	21.6 Inches
Range of Acceptable Drainage Areas	Min: 2.14 Square Miles – Max: 84.1 Square Miles
Range of Acceptable Annual Precipitation Depths	Min: 16.5 Inches – Max: 53.7 inches
Peak 100-year Discharge	73 cfs
Average Unit Discharge	0.017 cfs/ac
Standard Deviation	50%
Upper Confidence Limit	109.5 cfs
Lower Confidence Limit	36.5 cfs

As can be seen from Table 1, the drainage area and mean annual precipitation depth at Bacchus Highway on Barneys Creek are within the acceptable range of values to allow use of the USGS StreamStats equation. The peak 100-year discharge of 73 cfs results in a unit discharge of 0.017 cfs/acre with average standard error of about 50 percent. The upper confidence limit flow rate would be 109.5 cfs for the 100-year peak discharge, with a unit discharge rate of 0.026 cfs/ac.

Barneys Creek Hydrologic Model

Autodesk Storm and Sanitary Analysis (ASSA) was the modeling software used to estimate the 100-year flow rate in Barneys Creek. ASSA uses the United States Army Corps of Engineers HEC-HMS hydrologic engine based on SCS Curve Number methodology to compute runoff for each subbasin. This method requires lag time, CN value, percent

impervious, and area for each subbasin as hydrologic input parameters. Those parameters were developed using the same method as the Southwest Canal and Creek Study.

An existing model was developed. The model included storm drain pipes and multiple regional and local storm water detention facilities. West Jordan City provided as-built drawings or design reports for the existing regional detention facilities. For smaller detention basins or where as-built drawings or design reports were not available, the general assumption was made that detention basins stored enough water to limit the peak design storm discharge to 0.2 cfs/acre, the rate that has been required historically by City and County ordinances for developed land in the study area.

Model Results at Bacchus Hwy

The Barneys Creek hydrologic model results were compared to the StreamStats estimated flow rates and are identified in Table 2.

Table 2
Runoff Value for Barneys Creek at Bacchus Highway (cfs)

Runoff Computation Method	Average Runoff	Upper Confidence Limit	Lower Confidence Limit	ASSA Model Peak Runoff Estimate
StreamStats	73	109.5	36.5	-
ASSA Model	-	-	-	81

As can be seen from Table 2, the results from the model are within the confidence limits of the StreamStats equation. The estimated unit discharge rate from the ASSA model at Bacchus Highway was estimated to be 0.02 cfs/acre (81 cfs from 6.62 sq miles). That estimate is just above the average runoff rate from the StreamStats equation and was considered to be reasonable.

Historic Aerial Photos

As part of the calibration process, historic aerial photographs of upper portions of the Barneys Creek drainage areas were also reviewed. Multiple aerial photographs of the Barneys Creek area that shows that well-defined channels did not exist at that time and that portions of the ephemeral channel were filled in and farmed over. This generally supports the design storm runoff values estimated by StreamStats and ASSA. One of the historic aerial photos from 1940 is included in Appendix B.

Model Results Downstream of 5900 West

With the hydrologic model calibrated, 100-yr flow rates for the remainder of Barneys Creek were estimated. A HEC-RAS model was developed to estimate the capacity of the channel, culverts and structures. The HEC-RAS model was developed utilizing topographic data, survey data of channel cross sections and hydraulic structures, and aerial photographs. Version 5.0.1 of the HEC-RAS computer program developed by the United States Army Corps of Engineers was used to perform the hydraulic modeling for this study.

Results from the HEC-RAS hydraulic models were used to estimate the capacity of the channel and culverts. The hydraulic analysis focused on the 100-year flow rate.

The hydrologic and hydraulic analyses ended upstream of the South Valley Regional Airport. The pipelines east of Airport Road (approximately 4500 West) and the regional detention basin at the South Valley Regional Airport, both owned and maintained by West Jordan City, were not included in the model because those facilities could not be accessed to survey for field verification. Additionally, the storm drain facilities downstream of the detention basin in the South Valley Regional Airport are owned and maintained by West Jordan City. The scope for the Southwest Canal and Creek study did not include a detailed analysis of storm drain management facilities owned by West Jordan City.

Table 3 summarizes the computed peak flow rates and capacities for the culverts, and storm drain pipeline for the reach of Barneys Creek between the detention facilities at 5900 West and at the South Valley Regional Airport based on existing development conditions model results. Figure 2 identifies the locations of the Barneys Creek facilities referenced in Table 3. Table 3 also summaries the results from the projected future development conditions model that are described in the next section of this Technical Memorandum.

As can be seen from Table 3, there are 3 existing culverts between the 5900 West Detention Basin and the South Valley Regional Airport Detention Basin that do not have adequate capacity to convey the peak 100-year discharge associated with existing development conditions. Those three culverts are adjacent to houses or other developments. The flooding from those culverts has the potential to damage properties in the area.

The estimated capacity of the 66-inch pipe between Airport Road and 7800 South is a little lower than the estimated peak 100-year flow rate. However, the 66-inch pipe is not identified as having a significant capacity deficiency on Table 3. Flooding in these locations caused by the minor capacity deficiency is likely to only impact the road and parking lots in the area.

The existing facilities on Barneys Creek that are not deficient in capacity for existing development conditions do not have much available capacity for additional runoff in the future.

Additionally, the large regional 5900 West Detention Basin has little capacity for future development that is projected to occur west of the Mountain View Corridor. In the existing conditions model, the detention basin has approximately 1.6 feet of freeboard during the 100-year storm event before water flows over the spillway. It was originally designed to have 1.0 feet of freeboard in the future conditions (full build-out) model.

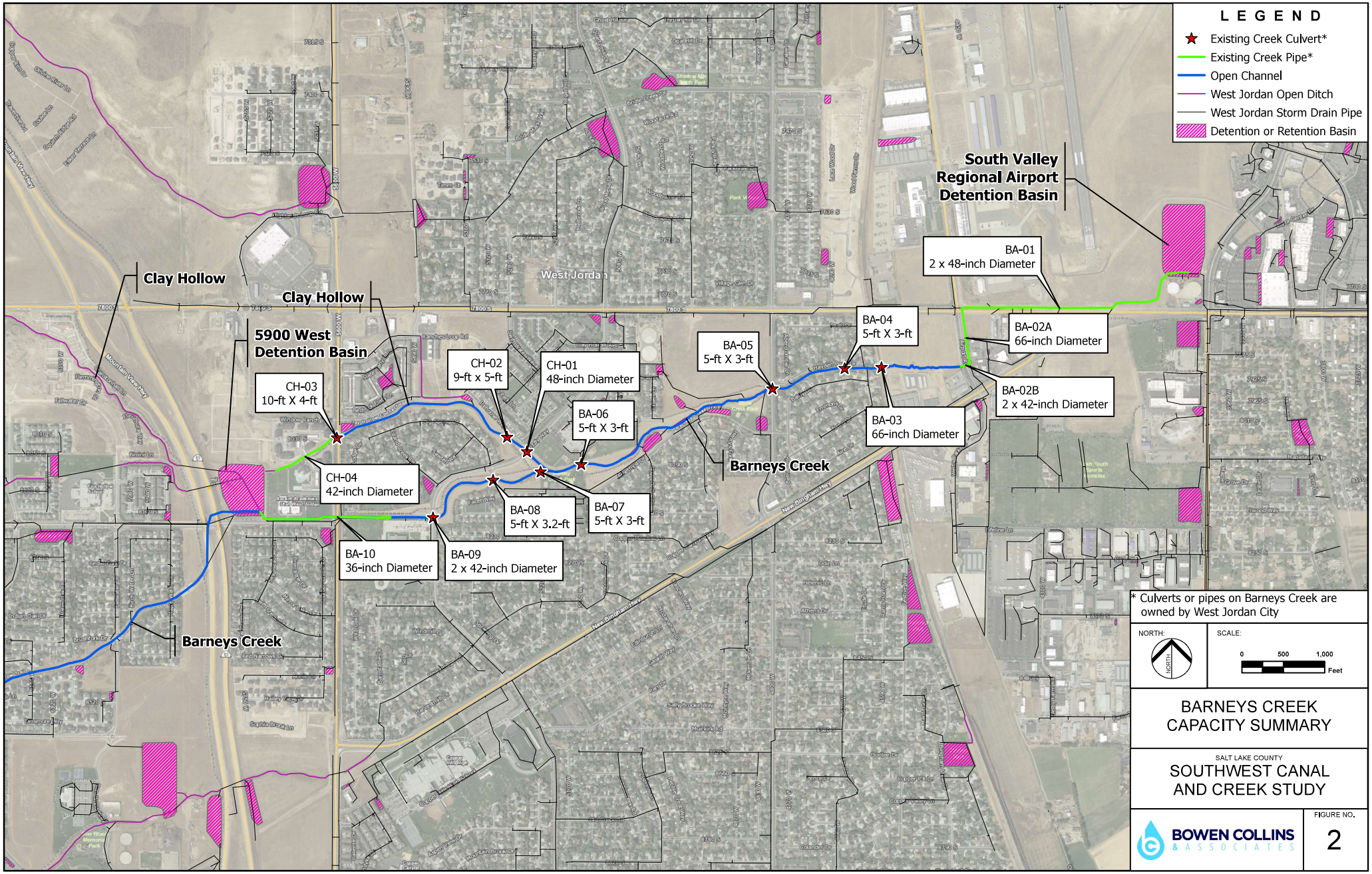

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Table 3
Summary of Existing Capacity and Model Results between the 5900 West Detention Basin and South Valley Regional Airport Detention Basin on Barneys Creek

Drainage Facility (ID)	Pipe or Culvert Location	Areal Reduction Factor (ARF)	Existing Culvert or Pipe Size	Estimated Hydraulic Capacity (cfs)[2]	FEMA Flow Rate (cfs)	Existing Conditions Flow Rate (cfs)	Future Build-Out Condition Flow Rate - 0.2 cfs/ac (cfs)	Future Build-Out Condition Flow Rate - 0.02 cfs/ac (cfs)
BA-01	7800 South to Airport Detention Basin	0.75	2 x 48-inch Diameter	390		320	580	325
BA-02A	Airport Rd. to 7800 South	0.80	66-inch Diameter	220		250	600[4]	310[4]
BA-02B	Airport Rd.	0.80	2 x 42-inch Diameter	185		155	290[4]	215[4]
BA-03	Railroad Crossing (4600 West)	0.85	66-inch Diameter	290	160	155	290[4]	215[4]
BA-04[1]	4660 West	0.85	5-ft X 3-ft	135		155	290[4]	215[4]
BA-05[1]	4800 West	0.85	5-ft X 3-ft	100		155	290[4]	215[4]
BA-06[1,3]	Barneys Creek Trail #1 (5200 West)	0.85	5-ft X 3-ft	65		125	285[4]	205[4]
BA-07	Barneys Creek Trail #2 (5100 West)	0.85	5-ft X 3-ft	80		75	75	75
BA-08	Amethyst Drive (5420 West)	0.85	5-ft x 3-ft	100		75	75	75
BA-09	Grizzly Way (5300 West)	0.85	2 x 42-inch Diameter	180		40	40	40
BA-10	5600 West	0.85	36-inch Diameter	140	10	10	10	10
CH-01	Grizzly Way (5300 West)	0.85	48-inch Diameter	150		50	275[4]	200[4]
CH-02	Clay Hollow Trail	0.85	9-ft x 5-ft	400		10	280[4]	200[4]
CH-03	5600 West	0.85	10-ft x 4-ft	300		10	280[4]	200[4]
CH-04[5]	Uinta View Way	0.85	42-inch Diameter	90		0	270[4]	190[4]

[1] Culverts highlighted in red are deficient in existing conditions.

[2] The culverts are inlet controlled, and the pipelines capacities are based on a surcharged condition based on model results.

[3] The confluence of Barneys Creek and Clay Hollow Wash (which is the outfall for the spillway on the 5900 West Detention Basin) is immediately upstream of 5200 West.

[4] The peak flow rate is governed by the spillway flow from the 5900 West Detention Basin.

[5] The 42-inch pipe is a low flow pipe and includes an overflow channel on the ground surface that will convey excess runoff downstream without flooding local property.

SECTION 3
BARNEYS CREEK FUTURE CONDITIONS

A future development conditions model of the Barneys Creek study area was also developed as part of this analysis. The future development conditions (or build-out conditions) model was based on the West Jordan City and County general plans. The future development conditions model includes two scenarios: one scenario assumed that all future development will detain peak flows from the 100-year design storm to 0.2 cfs/ac, and the second scenario assumed that all future development will detain peak flows from the 100-year design storm to 0.02 cfs/ac. Results from those scenarios are summarize on Table 3.

As can be seen on Table 3, the Barneys Creek facilities do not have capacity if future development is allowed to discharge at a maximum rate of 0.2 cfs/ac during the 100-year storm event (scenario 1). Additionally, storm water would flow over the 5900 West Detention Basin spillway into the historic Clay Hollow wash channel, which was not anticipated in the original detention basin design.

A separate future conditions model was developed based on future development discharging at a pre-development peak rate of 0.02 cfs/ac (scenario 2). Flow rates from that model are also presented in Table 3. As can be seen from Table 3, the peak flow rates associated with scenario 2 for the 100-year design storm are higher than the existing conditions peak flow rates. This is due to the additional volume of runoff that discharges into the 5900 West Detention Basin from impervious surfaces in upstream development. Storm water flows over the spillway on the 5900 West Detention Basin, significantly increasing the peak flow rate in the 0.02 cfs/ac scenario compared to the existing conditions scenario. The 5900 West Detention Basin was not designed to activate the spillway in the 100-year storm event. The additional volume discharging into the 5900 West Detention Basin was not anticipated in previous studies, as described in the following section of this Technical Memorandum.

SECTION 4
PREVIOUS STUDIES

There have been several studies completed previously in West Jordan City that estimated discharge rates in Barneys Creek. Those studies include:

- The Storm Drain Master Plan (SDMP) completed in 2003,
- The FEMA Letter of Map Revision (LOMR) submitted and approved in 2007, and
- The Storm Drain Master Plan Updated completed in 2012.

Those studies included recommended improvements and proposed discharge limits to future flow peak rates within the Barneys Creek drainage area. The recommended allowable peak discharge rate for future development in those studies was 0.2 cfs/ac in association with the recommendation of constructing a number of large regional detention facilities in the Barneys Creek drainage area. The Capital Improvements Project (CIP) lists for the 2003 SDMP and 2012 SDMP update included four large regional detention basins that needed to

be constructed immediately west of Bacchus Highway. The large regional detention facilities were going to be constructed along Barneys Creek, Clay Hollow and 2 Unnamed Washes.

The four recommended large regional detention facilities west of Bacchus Highway had recommended volumes that ranged in size from 1.5 to 54.6 acre feet and had a collective volume of 107.8 acre feet. The figure and table identifying those facilities from the 2012 SDMP update (the most recent master plan update BC&A completed) are included in Appendix C. Those four regional detention basins were supposed to collect the storm drain runoff from the developments and mountain watershed west of Bacchus Highway and detain it before discharging into their respective creek or wash. The maximum peak discharge rates from those detention basins were between 2 and 7 cfs each, for a collective discharge rate of 20 cfs west of Bacchus Highway. The 20 cfs was supposed to be a pass-through flow at the 5900 West Detention Basin. Those regional detention facilities either have not been constructed, release water at a 0.2 cfs/ac discharge rate or were constructed to collect runoff from the mountain watershed but do not collect runoff from development. Most of the development west of Bacchus Highway discharges storm water at a discharge rate of 0.2 cfs/ac for the 100-year design storm.

Because the regional facilities west of Bacchus Highway were not constructed as recommended in the previous studies, there is little capacity in Barneys Creek for runoff from future development.

It is important to note that the previously recommended collective discharge rate of 20 cfs, which applies to Barneys Creek, Clay Hollow and the Unnamed Washes, is associated with a drainage area of 14.1 square miles (9024 acres), and results in a unit discharge rate of 0.0022 cfs/ac. That discharge rate is significantly lower than the pre-development discharge rate of 0.02 cfs/ac discussed previously in this Technical Memorandum. The discharge rate of 20 cfs was based on the limited capacity of the West Jordan Storm Drain system downstream of the South Valley Regional Airport when the 2003, 2007 and 2012 studies were completed. The storm drain facilities downstream of the South Valley Regional Airport have been improved in the past 10 years, and may have additional capacity that was not anticipated in the 2003, 2007 or 2012 studies. The analysis of Barneys Creek should be extended downstream to the Jordan River so the peak flow rate and capacity of the West Jordan Storm Drain System downstream of the South Valley Regional Airport can be estimated.

SECTION 5
CONCLUSIONS

Based on the analysis and results associated with the Barneys Creek Analysis, the following conclusions can be made:

- There are three culverts on Barneys Creek between 4600 West and 5200 West that do not have adequate capacity to convey the estimated 100-year discharge associated with existing development conditions.
- The 5900 West Detention Basin has approximately 1.6 feet of freeboard in the existing conditions scenario and does not have much additional volume to attenuate discharges from projected future development.

- As development continues in the future, the volume and peak flow from the Barneys Creek drainage area will increase. The peak flow rate can be limited using detention basins, but the volume of storm water runoff from a 100-year design storm cannot be significantly reduced using detention basins.
- If future development is allowed to discharge at a rate of 0.2 cfs/ac during a 100-year design storm, extensive improvements will be required to the study reach of Barneys Creek and the West Jordan storm drain system to safely convey the runoff to the Jordan River. Additionally, the spillway on the 5900 West Detention Basin will discharge water in the Clay Hollow channel during the 100-year storm event, which was not anticipated in previous studies or the 5900 West Detention Basin design.
- As shown in table 3, the existing conditions flow rates are similar to the current effective FEMA flow rates. As development continues and the flow rate increases, FEMA flow rate will need to be updated.
- If runoff from future development is allowed to discharge at the pre-development discharge rate of 0.02 cfs/ac during a 100-year design storm, the peak flow rate in Barneys Creek will increase due to storm water flow over the spillway at the 5900 West Detention Basin. This would require additional improvements on Barneys Creek at Airport Road; the parallel 42-inch pipes and the 66-inch pipe.
- There may be additional capacity deficiencies in the storm drain system downstream of the detention basin at the South Valley Regional Airport.

SECTION 6
ALTERNATIVES TO MANAGING STORM WATER IN THE FUTURE

The following is a summary of alternative and recommended improvements associated with the study reach of Barneys Creek.

- **Develop a More Comprehensive Computer Model** - As stated earlier, this study does not analyze storm drain facilities at or downstream of the South Valley Regional Airport. It is recommended that before finalizing alternative means to managing storm water in the Barneys Creek study area West Jordan City develop a comprehensive model of Barneys Creek, Barneys Wash and the West Jordan Storm system that extends to the Jordan River. The alternatives discussed in this Technical Memorandum should be reviewed in a comprehensive model that will analyze various flow rates in Barneys Creek and the West Jordan Storm Drain System. Recommendations should be made based on that comprehensive model. It is important to note that analysis discussed in this Technical Memorandum did not include LID or volume reduction from retaining the 80th percentile storm. This analysis is a master plan study that reviews potential alternatives to manage storm water runoff. The comprehensive model should be a more detailed model that considers the effects of retaining the 80th percentile storm.
- Alternatives to managing storm water may include:

- **Limiting the peak discharge from Future Development –**The final recommended discharge rate may be the pre-development discharge rate of 0.02 cfs/ac, or a different rate selected by the City as part of their more detailed master planning process. The proposed discharge rate should be analyzed in the comprehensive model of Barneys Creek and the West Jordan Storm Drain System.
- **Additional Regional Detention Facilities –** The 2003 and 2012 storm drain master plans recommended large regional detention facilities to limit the peak discharge in Barneys Creek. As part of their storm drain master planning process, West Jordan City should analyze different areas where regional detention facilities could be constructed to limit the peak discharge in Barneys Creek. Alternative detention facility improvements should be analyzed in the comprehensive model of Barney Creek and should be incorporated into the West Jordan Storm Drain Master Plan.
- **Improving Culverts on Barneys Creek –** At least three culverts need to be improved or replaced to safely convey the estimated 100-year peak discharge associated with existing development conditions. There may be more improvements to the West Jordan Storm Drain System, depending on proposed regional facilities or the required peak discharge rate for future development.

APPENDIX A

StreamStats Report

StreamStats Report

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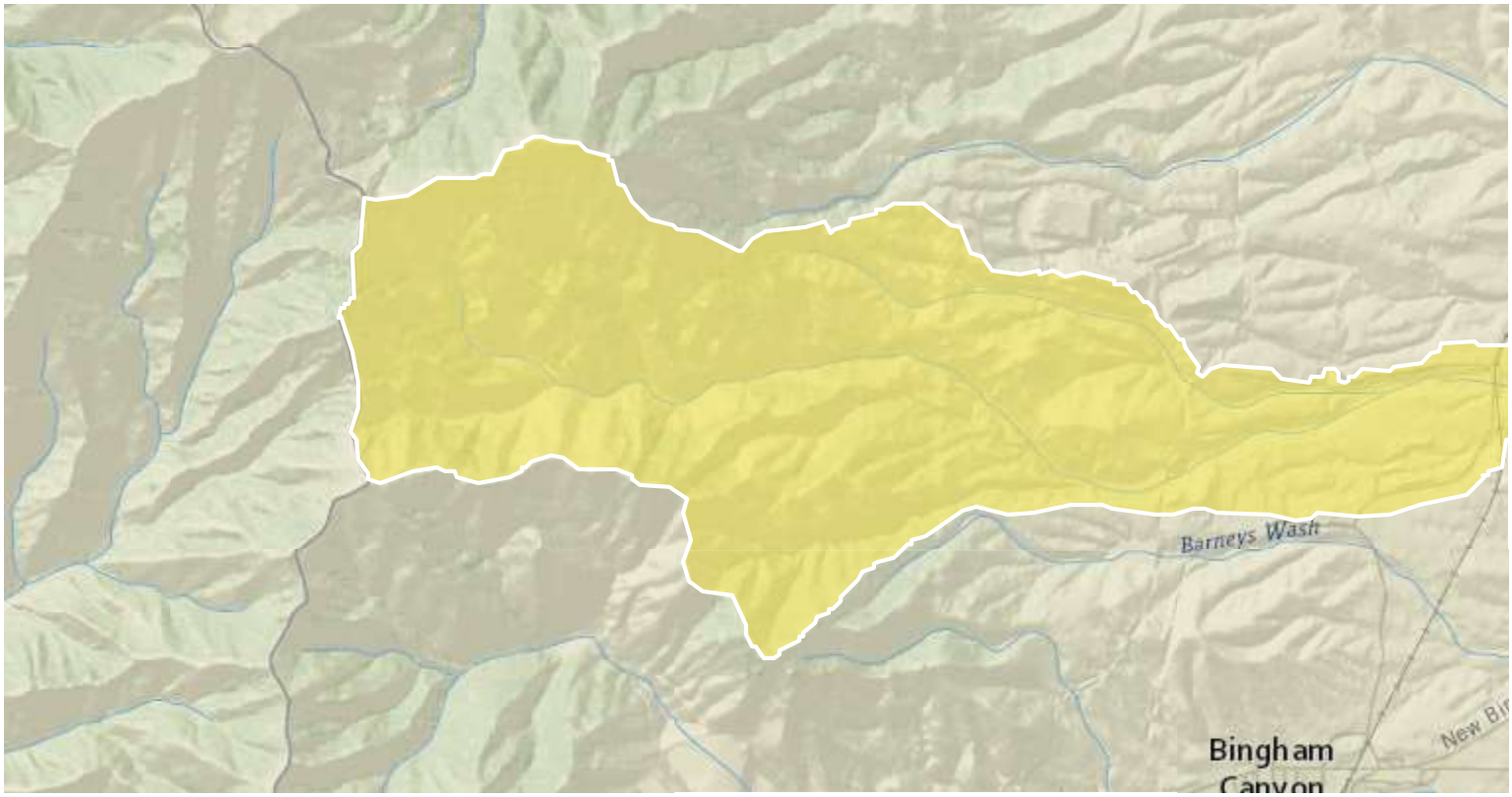
Time: 2021-10-06 13:35:43 -0600



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	6.62	square miles
PRECIP	Mean Annual Precipitation	21.6	inches
ELEV	Mean Basin Elevation	6530	feet

Peak-Flow Statistics Parameters [Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	6.62	square miles	2.14	84.1
PRECIP	Mean Annual Precipitation	21.6	inches	16.5	53.7

Peak-Flow Statistics Flow Report [Region 2]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	ASEp	Equiv. Yrs.
50-percent AEP flood	13.6	ft^3/s	71	71	0.9
20-percent AEP flood	26	ft^3/s	58	58	1.6
10-percent AEP flood	36.2	ft^3/s	53	53	2.5
4-percent AEP flood	48.1	ft^3/s	51	51	3.7
2-percent AEP flood	61.4	ft^3/s	50	50	4.6
1-percent AEP flood	73	ft^3/s	50	50	5.4
0.5-percent AEP flood	85.5	ft^3/s	51	51	6.1
0.2-percent AEP flood	107	ft^3/s	52	52	6.8

Peak-Flow Statistics Citations

Kenney, T.A., Wilkowske, C.D., and Wright, S.J.,2007, Methods for Estimating Magnitude and Frequency of Peak Flows for Natural Streams in Utah: U.S. Geological Survey Scientific Investigations Report 2007-5158, 28 p. (http://pubs.usgs.gov/sir/2007/5158/)

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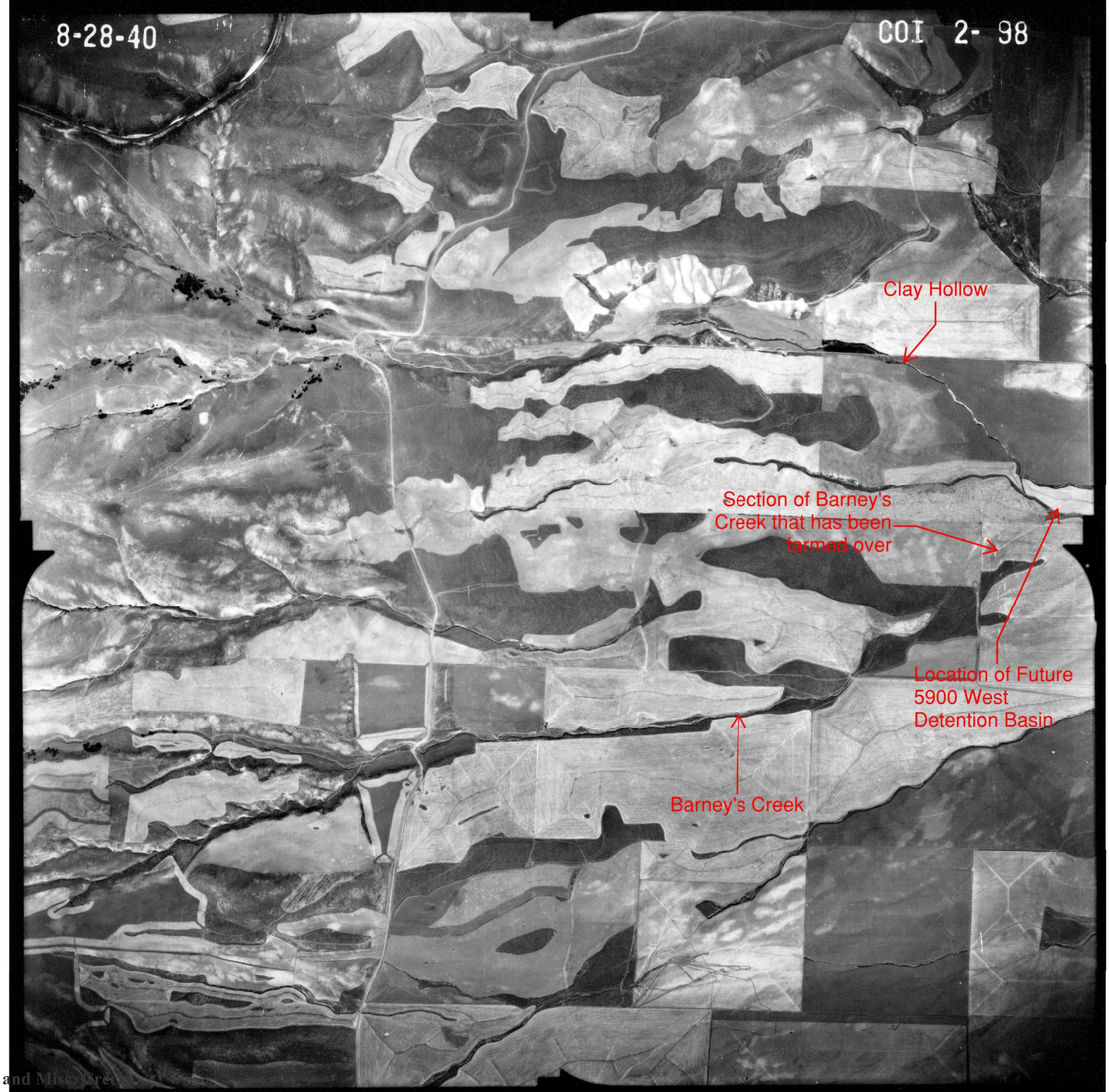
Application Version: 4.6.2
StreamStats Services Version: 1.2.22
NSS Services Version: 2.1.2

APPENDIX B

Historic Aerial Photo


8-28-40
COI 2- 98
Clay Hollow
Section of Barney's Creek that has been farmed over
Location of Future 5900 West Detention Basin
Barney's Creek

APPENDIX C

Excerpts from the 2003 & 2012 Storm Drain Master Plans and the 2007 LOMR

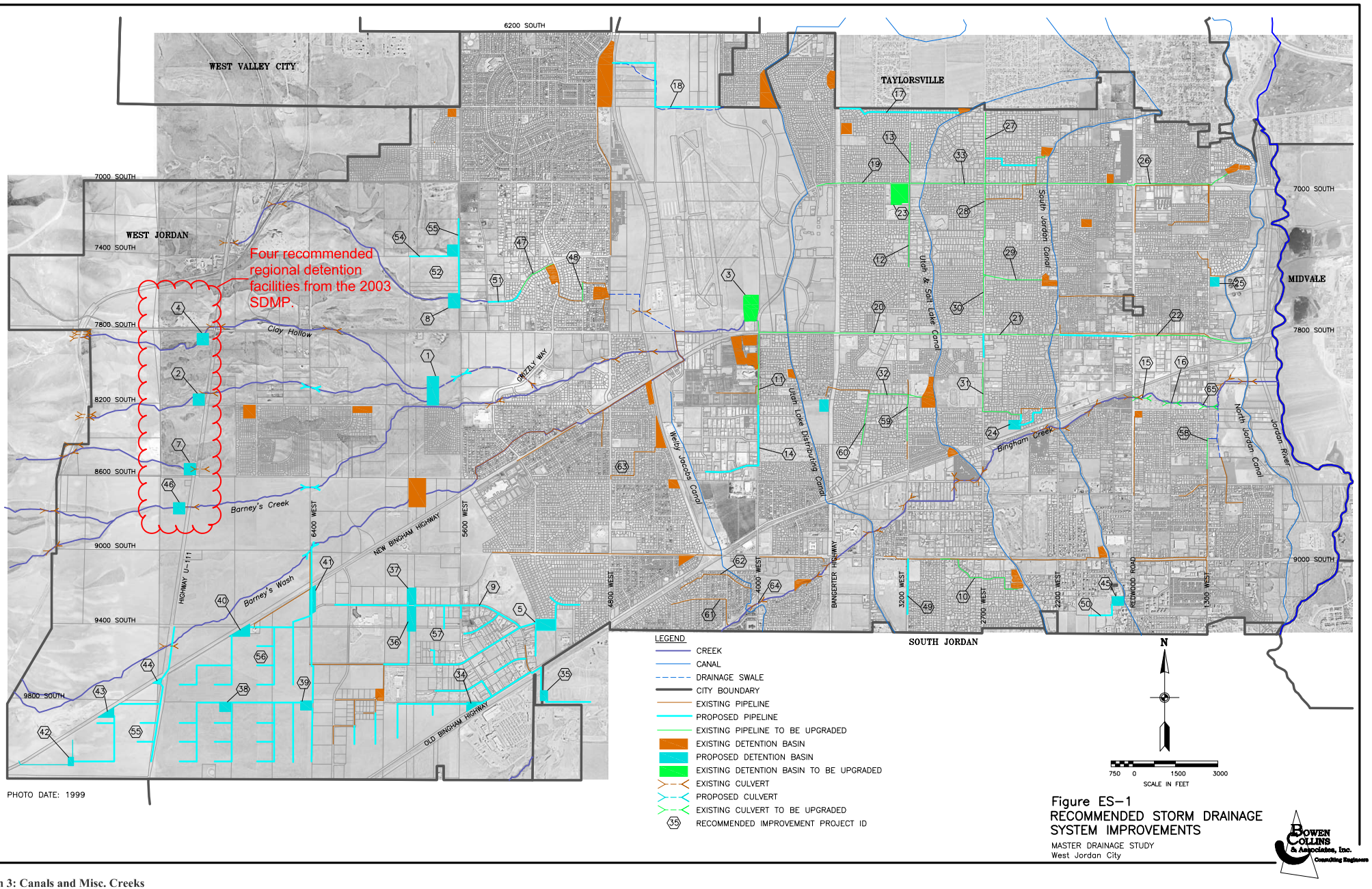


Figure ES–1
RECOMMENDED STORM DRAINAGE SYSTEM IMPROVEMENTS
MASTER DRAINAGE STUDY
West Jordan City

Bowen Collins & Associates, Inc. Consulting Engineers

P:\West Jordan\Drainage Master Plan\Drawings\Figure\410201_Fig1_DMP.dwg Dec19,2003 - 12:19pm

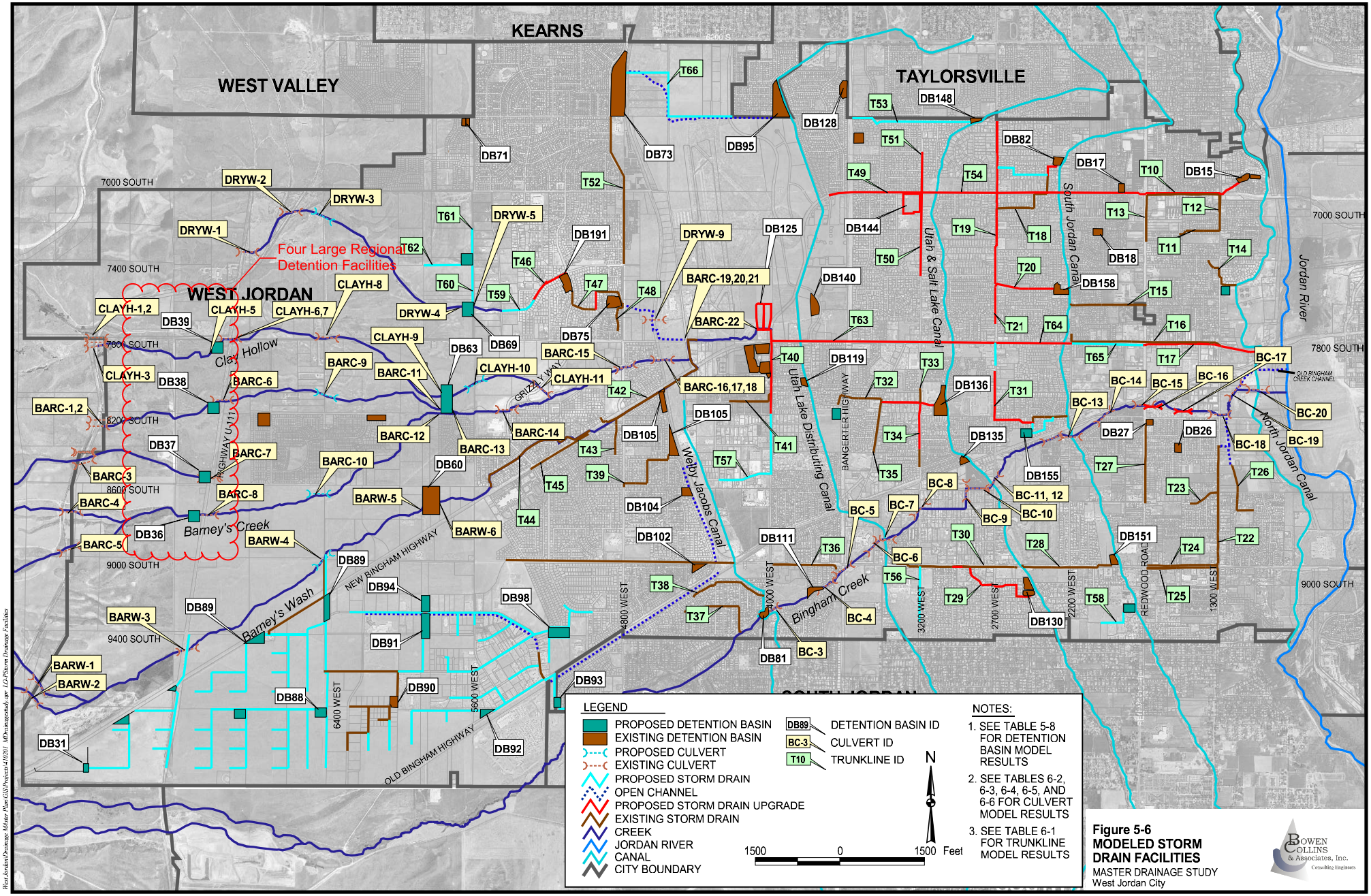


Figure 5-6
MODELED STORM DRAIN FACILITIES
MASTER DRAINAGE STUDY
West Jordan City

Bowen Collins & Associates, Inc. Consulting Engineers

West Jordan\Drainage Master Plan\GIS\Projects\41001 MDrainagesketch.apr 1/0/PStorm Drainage Facilities

Table 5-8

Summary of Hydrologic Model Results for Detention Basins

West Jordan City Master Drainage Study

		EXISTING DEVELOPMENT CONDITIONS					FUTURE DEVELOPMENT CONDITIONS									
Detention Basin ID	**Location**	**Q_{in} (cfs)**	**Q_{out} (cfs)**	**Req'd Volume (ac-ft)**	**Drainage Area (mi^2)**	**ARF[1]**	**Q_{in} (cfs)**	**Q_{out} (cfs)**	**Req'd Volume (ac-ft)**	**Drainage Area (mi^2)**	**ARF[1]**	**Existing Volume (ac-ft)**	**Existing Area (ac)**	**Existing Volume Deficiency (ac-ft)**	**Future Volume Deficiency (ac-ft)**	**Notes**
DB15	6930 South 1200 West	633	47	17.4	1.2	–	633	47	17.4	1.2	--	26.8	2	–	--	
DB17	7000 South 1905 West	89	40	1.1	0.2	–	89	40	1.1	0.2	--	5.7	1	–	--	
DB18	7230 South 1975 West	35	2	0.9	0.1	–	35	2	0.9	0.1	--	7.3	1.5	–	--	
DB26	8400 South 1500 West	42	5	1.0	0.1	–	42	5	1.0	0.1	--	3.8	1.9	–	--	
DB27	8200 South Redwood Road	345	11	12.4	0.6	–	262	11	8.8	0.4	--	3.1	0.5	9.3	5.7	UDOT Detention Facility
DB31	Bagley Park - West of Highway U-111	--	–	--	--	–	111	29	1.9	0.3	--	--	--	–	1.9	Corresponds to Detention Basins 9, 14, and 15 from Bagley Industrial Park Study
DB36	Barneys Creek, West of Highway U-111	--	–	--	--	–	198	2	54.6	6.6	0.90	--	--	–	54.6	
DB37	8600 South, West of Highway U-111	--	–	--	--	–	68	7	12.9	1.4	0.95	--	--	–	12.9	
DB38	8100 South, West of Highway U-111	--	–	--	--	–	54	4	1.5	0.3	--	--	--	–	1.5	
DB39	7800 South, West of Highway U-111	--	–	--	--	–	166	7	38.8	5.8	0.90	--	--	–	38.8	
DB60	Barneys Wash, 5900 West	90	18	19.0	3.6	0.95	185	18	40.5	4.9	0.95	49.0	NA	–	--	
DB63	Barneys Creek, near 5800 West	--	–	--	--	–	306	5	70.1	16.1	0.85	--	--	–	70.1	
DB69	Dry Wash, 7600 South 5600 West	--	–	--	--	–	341	5	28.9	2.2	0.95	--	--	–	28.9	
DB71	6655 South 5645 West	171	16	3.9	0.3	–	193	16	4.5	0.3	--	9.4	1.1	–	--	
DB73	6400 South 4800 West	735	42	22.2	2.0	0.95	735	5	31.1	1.7	0.95	80.0	13	–	--	
DB75	7500 South 4800 West	121	18	6.6	2.7	0.95	119	7	3.9	3.1	0.95	5.0	2	1.6	--	
DB81	Bingham Creek, 4000 West	676	375	12.4	11.1	0.90	466	345	10.1	3.3	0.95	2.2	6	10.2	7.9	Located in South Jordan City
DB82	6830 South 2310 West	102	11	3.0	0.3	–	102	11	3.0	0.3	--	5.6	1.8	–	--	
DB88	Bagley Park - Prosperity Road to Highway U-111	--	–	--	--	–	753	7	25.7	0.5	--	--	--	–	25.7	Corresponds to Detention Basins 10 and 11 from Bagley Industrial Park Study
DB89	Bagley Park - Prosperity Road to Highway U-111	--	–	--	--	–	657	11	22.9	1.0	--	--	--	–	22.9	Corresponds to Detention Basins 12 and 13 from Bagley Industrial Park Study
DB90	Bagley Park - 5200 West to Prosperity Road	207	7	9.2	0.8	–	442	7	14.7	0.3	--	12.5	2.5	–	2.2	Corresponds to Detention Basin 3 from Bagley Industrial Park Study
DB91	Bagley Park - 5200 West to Prosperity Road	--	–	--	--	–	550	7	20.4	0.7	--	--	--	–	20.4	Corresponds to Detention Basin 6 from Bagley Industrial Park Study
DB92	Bagley Park - 5200 West to Prosperity Road	--	–	--	--	–	94	7	2.6	0.1	--	--	--	–	2.6	Corresponds to Detention Basin 1 from Bagley Industrial Park Study
DB93	Bagley Park - 5200 West to Prosperity Road	--	–	--	--	–	232	7	13.4	0.4	--	--	--	–	13.4	Corresponds to Detention Basin 4 from Bagley Industrial Park Study
DB94	Bagley Park - 5200 West to Prosperity Road	--	–	--	--	–	132	1	4.6	0.1	--	--	--	–	4.6	Corresponds to Detention Basin 7 from Bagley Industrial Park Study
DB95	6400 South 3900 West	140	5	24.4	2.8	0.95	143	5	29.1	2.5	0.95	32.0	8	–	--	
DB98	Bagley Park - 5200 West to Prosperity Road	--	–	--	--	–	454	11	15.8	1.0	--	--	--	–	15.8	Corresponds to Detention Basin 8 from Bagley Industrial Park Study

(1) ARF - Areal Reduction Factor. See Section 5.

Table 5-8

Summary of Hydrologic Model Results for Detention Basins

West Jordan City Master Drainage Study

		-------- EXISTING DEVELOPMENT CONDITIONS ----------					---------- FUTURE DEVELOPMENT CONDITIONS ----------									
Detention Basin ID	**Location**	**Q_{in} (cfs)**	**Q_{out} (cfs)**	**Req'd Volume (ac-ft)**	**Drainage Area (mi^2)**	**ARF(1)**	**Q_{in} (cfs)**	**Q_{out} (cfs)**	**Req'd Volume (ac-ft)**	**Drainage Area (mi^2)**	**ARF(1)**	**Existing Volume (ac-ft)**	**Existing Area (ac)**	**Existing Volume Deficiency (ac-ft)**	**Future Volume Deficiency (ac-ft)**	**Notes**
DB102	9000 South 4300 West	102	14	2.3	0.2	–	102	14	2.3	0.2	--	4.8	1	--	--	
DB104	8600 South 4400 West	131	44	2.0	0.2	–	131	44	2.0	0.2	--	5.0	2.1	--	--	
DB105	4600 West New Bingham Highway	634	42	18.7	5.3	0.90	653	65	25.7	6.7	0.90	26.0	6.2	--	--	
DB111	9120 South 3780 West	408	392	3.9	12.4	0.90	375	367	3.3	4.6	0.95	13.0	2	--	--	
DB119	8010 South 3850 West	26	2	0.7	0.1	–	26	2	0.7	0.1	--	5.0	1.7	--	--	
DB125	7800 South 4000 West	378	27	120.0	26.2	0.80	327	55	55.7	27.7	0.80	40.0	10.7	80.0	15.7	
DB128	6460 South 3620 West	105	5	2.9	0.2	–	105	5	2.9	0.2	--	6.9	2.6	--	--	
DB130	9140 South 2490 West	337	11	10.9	0.5	–	337	11	10.9	0.5	--	17.0	3.4	--	--	
DB135	8565 South 2920 West	36	2	0.9	0.1	–	36	2	0.9	0.1	--	4.5	1.5	--	--	
DB136	8100 South 3100 West	382	33	9.4	0.6	–	382	33	9.4	0.6	--	28.0	4.7	--	--	
DB140	Jordan Landing	–	--	--	--	–	105	24	1.9	0.2	--	--	--	--	1.9	
DB144	7000 South 3200 West	580	8	28.6	4.5	0.95	338	25	35.9	4.1	0.95	22.0	8	6.6	13.9	
DB148	6620 South 2795 West	5	4	0.6	0.2	–	5	4	0.6	0.2	--	2.3	1	--	--	
DB151	9000 South 1870 West	129	5	4.4	0.3	–	129	5	4.4	0.3	--	6.3	2.5	--	--	
DB155	8100 South 2500 West	–	--	--	--	--	142	5	4.1	0.2	--	--	--	--	4.1	
DB158	7500 South 2200 West	179	5	5.5	0.3	–	179	5	5.5	0.3	--	4.6	2.5	0.9	0.9	
DB168	9400 South 3800 West	369	12	13.6	1.1	–	369	12	13.6	1.1	--	13.6	13.6	--	--	Located in South Jordan City
DB174	9500 South 2300 West	439	7	23.7	1.2	–	439	7	23.7	1.2	--	20.2	NA	3.5	3.5	Located in South Jordan City
DB191	7500 South 5200 West	79	32	6.2	2.5	0.95	78	6	6.8	2.9	0.95	7.2	3	--	--	

(1) ARF - Areal Reduction Factor. See Section 5.

Table 7-3
Summary of Recommended Improvements - High Priority
West Jordan City Master Drainage Study

Project ID	Priority	Model ID	Project Name	Location	Existing Facility	Recommended Improvement	Estimated Cost	Estimated Cost Attributed to Existing Conditions	Estimated Cost Attributed to Future Development
STORM WATER DETENTION FACILITIES									
1	1	DB63	Barneys Creek Detention	Barneys Creek, near 5800 West	No existing facility	Construct 71 acre-foot detention facility	$1,898,500	$0	$1,898,500
2	6	DB38	Jones North Detention	8100 South, West of Highway U-111	No existing facility	Construct 2 acre-foot detention facility	$114,800	$0	$114,800
3	8	DB125	Airport Detention SE	7800 South 4000 West	40 acre-feet	Increase storage by 25 acre-feet	$651,500	$260,600	$390,900
4	9	DB39	Clay Hollow West Detention	7800 South, West of Highway U-111	No existing facility	Construct 39 acre-foot detention facility	$1,873,900	$0	$1,873,900
5	10	DB98	Bagley Industrial Park Detention (Wildflower 14)	Bagley Park - 9400 South 5200 West	No existing facility	Construct 22 acre-foot detention facility	$1,152,200	$921,760	$230,440
7	11	DB37	Jones South Detention	8600 South, West of Highway U-111	No existing facility	Construct 13 acre-foot detention facility	$672,900	$0	$672,900
8	13	DB69	Dry Wash Detention	Dry Wash, 7600 South 5600 West	No existing facility	Construct 29 acre-foot detention facility	$1,391,200	$0	$1,391,200
STORM DRAIN PIPELINE AND DRAINAGE CULVERT FACILITIES									
9	7	T73	Bagley Industrial Park Miscellaneous Piping	Bagley Park - 5200 West to Prosperity Road	No existing facilities	Install storm drain pipe system per Bagley Park Drainage Study	$516,500	$516,500	$0
10	12	T29	9000 South Storm Drain Phase 2	9000 South from 3000 West to 2900 West; Southeast to Detention Basin at 9140 South 2490 West	24- and 30-inch CMP	Replace with 48- and 30-inch RCP	$885,600	$885,600	$0
11	14	T40	4000 West Storm Drain Phase 1	4000 West from 8200 South to 7800 South	18- and 24-inch CMP	Replace with 36- and 42-inch RCP	$605,900	$605,900	$0
12	15	T50	3200 West Storm Drain Phase 1b	3200 West from 7400 South to Detention Basin at 7000 South	36-inch RCP	Replace with 48-inch RCP	$214,400	$214,400	$0
13	16	T51	3200 West Storm Drain Phase 2	3200 West from 6700 South to Detention Basin at 7000 South	30-inch RCP	Replace with 48- and 54-inch RCP	$436,300	$436,300	$0
14	17	T57	4000 West Storm Drain Phase 2	4000 West from 8600 South to 8300 South	No existing facility	Install 15-, 24-, 30-, and 36-inch RCP	$540,500	$0	$540,500
15	18	BC16	Bingham Creek Box Culvert A	Bingham Creek at 1650 West	48-inch CMP	Replace with 16' x 5' box culvert w/ headwall	$246,000	$246,000	$0
16	19	BC17	Bingham Creek Box Culvert B	Bingham Creek at 1500 West	48-inch CMP	Replace with 12' x 5' box culvert w/ headwall; improve approximately 1000' of channel between 1650 West and 1500 West	$459,000	$459,000	$0
17	20	T53	6600 South Storm Drain	6600 South from Bangerter Highway to Detention Basin at 6600 West and 7400 South	No existing facility	Install 15-, 27-, and 36-inch RCP	$726,100	$0	$726,100
18	21	T66	Airport North Storm Drain	Detention Basin at 6300 South 4800 West west to Detention Basin at 6600 South 4000 West	Open channel and 15-inch RCP	Install 36-inch RCP	$941,000	$658,700	$282,300
19	2	T49	7000 South Storm Drain[1]	7000 South from Bangerter Highway to Detention Basin at 3200 West	18-, 21-, and 24-inch RCP	Replace with 24-, 36-, and 42-inch RCP	$353,900	$353,900	$0
20	5	T63	7800 South Storm Drain Phase 3[1]	7800 South from 4000 West to 2700 West	No continuous facility	Install continuous storm drain trunkline ranging in size from 42- to 60-inch RCP	$2,209,800	$0	$2,209,800
21	4	T64	7800 South Storm Drain Phase 2[1]	7800 South from 2700 West to 1900 West	No continuous facility	Install continuous storm drain trunkline ranging in size from 60- to 72-inch RCP	$1,759,700	$0	$1,759,700
22	3	T65	7800 South Storm Drain Phase 1[1]	7800 South from 1900 West to North Jordan Canal	No continuous facility	Install continuous 72-inch RCP storm drain trunkline	$2,342,400	$0	$2,342,400
						Total:	$19,992,100	$5,558,660	$14,433,440
						Total for 2004 through 2010 Improvement Projects:	$13,326,300	$5,204,760	$8,121,540

Notes:

(1) - These projects are included in the 2003 budget year

Table 7-5
Summary of Recommended Improvements - Development Driven Priority
West Jordan City Master Drainage Study

Project ID	Priority	Model ID	Location	Existing Facility	Recommended Improvement	Estimated Cost	Estimated Cost Attributed to Existing Conditions	Estimated Cost Attributed to Future Development
STORM WATER DETENTION FACILITIES								
34	39	DB92	Bagley Park - 5200 West to Prosperity Road	No existing facility	Construct 8 acre-foot detention facility	$415,300	$0	$415,300
35	40	DB93	Bagley Park - 5200 West to Prosperity Road	No existing facility	Construct 9 acre-foot detention facility	$420,500	$336,400	$84,100
36	41	DB91	Bagley Park - 5200 West to Prosperity Road	No existing facility	Construct 29 acre-foot detention facility	$1,353,700	$406,110	$947,590
37	42	DB94	Bagley Park - 5200 West to Prosperity Road	No existing facility	Construct 14 acre-foot detention facility	$758,200	$227,460	$530,740
38	44	DB88(BP10)	Bagley Park - Prosperity Road to Highway U-111	No existing facility	Construct 14 acre-foot detention facility	$708,200	$0	$708,200
39	45	DB88(BP11)	Bagley Park - Prosperity Road to Highway U-111	No existing facility	Construct 14 acre-foot detention facility	$653,100	$0	$653,100
40	46	DB89(BP12)	Bagley Park - Prosperity Road to Highway U-111	No existing facility	Construct 7 acre-foot detention facility	$392,400	$0	$392,400
41	47	DB89(BP13)	Bagley Park - Prosperity Road to Highway U-111	No existing facility	Construct 12 acre-foot detention facility	$343,900	$343,900	$0
42	49	DB31(BP14)	Bagley Park - West of Highway U-111	No existing facility	Construct 3 acre-foot detention facility	$189,900	$0	$189,900
43	50	DB31(BP15)	Bagley Park - West of Highway U-111	No existing facility	Construct 5 acre-foot detention facility	$313,700	$0	$313,700
44	51	DB31(BP9)	Bagley Park - West of Highway U-111	No existing facility	Construct 2 acre-foot detention facility	$102,100	$0	$102,100
45	38	DB150	9200 South 1800 West	No existing facility	Construct 4 acre-foot detention facility	$215,800	$0	$215,800
46	37	DB36	Barneys Creek, West of Highway U-111	No existing facility	Construct 55 acre-foot detention facility	$1,956,800	$0	$1,956,800
STORM DRAIN PIPELINE AND DRAINAGE CULVERT FACILITIES								
47	34	T46	Dry Wash - 7600 South 5200 West northeast to Detention Basin at 7600 South 5000 West	27-inch RCP	Replace with 36-inch RCP	$339,800	$169,900	$169,900
48	35	T47	Dry Wash - Detention Basin at 7600 South 5000 West to Detention Basin at 7700 South 4800 West	30-inch RCP	Replace with 36-inch RCP	$139,400	$69,700	$69,700
49	54	T56	3200 West from 9200 South to 9000 South	No existing facility	Install 24-, and 36-inch RCP	$303,200	$0	$303,200
50	53	T58	2100 West 9300 South northeast to South Jordan Canal	No existing facility	Install 21-inch RCP	$210,700	$0	$210,700
51	36	T59	Dry Wash - 7600 South from 5600 West to existing line at 5200 South	No existing facility	Install 18-, and 36-inch RCP	$376,600	$0	$376,600
52	55	T60	Proposed Detention Basin at 5600 West and 7500 South to 7600 South	No existing facility	Install 18-inch RCP	$149,300	$0	$149,300
53	56	T61	5600 West from 7400 South to proposed Detention Basin at 5600 West and 7500 South	No existing facility	Install 36-inch RCP	$207,400	$0	$207,400
54	57	T62	7500 South from 5800 West to proposed Detention Basin at 5600 West and 7500 South	No existing facility	Install 36-inch RCP	$235,300	$0	$235,300
55	52	T70	Bagley Park - West of Highway U-111	No existing facility	Install storm drain pipe system per Bagley Park Drainage Study	$1,308,700	$0	$1,308,700
56	48	T71	Bagley Park - Prosperity Road to Highway U-111	No existing facility	Install storm drain pipe system per Bagley Park Drainage Study	$3,171,700	$951,510	$2,220,190
57	43	T72	Bagley Park - 5200 West to Prosperity Road	No existing facility	Install storm drain pipe system per Bagley Park Drainage Study	$3,030,400	$2,727,360	$303,040
					Total:	$17,296,100	$5,232,340	$12,063,760

Federal Emergency Management Agency

Washington, D.C. 20472

JUL 2 0 2007

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable David B. Newton
Mayor, City of West Jordan
2555 West Carson Lane
West Jordan, UT 84084

IN REPLY REFER TO:
Case No.: 07-08-0330P
Community Name: City of West Jordan, UT
Community No.: 490108
Effective Date of This Revision: JUL 2 0 2007

Dear Mayor Newton:

The Flood Insurance Study report and Flood Insurance Rate Map for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panel(s) revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed which provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Federal Insurance and Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Denver, Colorado, at (303) 235-4830, or the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at http://www.fema.gov/nfip.

Sincerely,

Beth A Norton

Beth A. Norton, CFM, Project Engineer
Engineering Management Section
Mitigation Division

For: William R. Blanton Jr., CFM, Chief
Engineering Management Section
Mitigation Division

List of Enclosures:

Letter of Map Revision Determination Document
Annotated Flood Insurance Rate Map
Annotated Flood Insurance Study Report

cc: Mr. Nathan Nelson, P.E.
City Engineer / Floodplain Manager
City of West Jordan

Mr. Neil Stack, P.E.
Director of Development Services
Salt Lake County

[redacted]
Water Resources Engineer
Bowen Collins & Associates, Inc.

 | Issue Date: JUL 2 0 2007 | Effective Date: JUL 2 0 2007 | Case No.: 07-08-0330P | LOMR-APP

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of West Jordan Salt Lake County Utah	BRIDGE CHANNELIZATION CULVERT DETENTION BASIN	FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA BASE MAP CHANGES
	COMMUNITY NO.: 490108		
IDENTIFIER	Barneys Creek and Clay Hollow Wash LOMR	APPROXIMATE LATITUDE & LONGITUDE: 40.605, -112.009 SOURCE: USGS QUADRANGLE DATUM: NAD 27	

ANNOTATED MAPPING ENCLOSURES			ANNOTATED STUDY ENCLOSURES
TYPE: FIRM*	NO.: 49035C0410 E	DATE: September 21, 2001	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: May 15, 2002
TYPE: FIRM	NO.: 49035C0430 E	DATE: September 21, 2001	PROFILE(S): 215P, 216P, and 217P
			FLOODWAY DATA TABLE: 11
			SUMMARY OF DISCHARGES TABLE: 8

Enclosures reflect changes to flooding sources affected by this revision.
* FIRM - Flood Insurance Rate Map; ** FBFM - Flood Boundary and Floodway Map; *** FHBM - Flood Hazard Boundary Map

FLOODING SOURCE(S) & REVISED REACH(ES) See Page 2 for Additional Flooding Sources

Barneys Creek – from just downstream of 7800 South Street to approximately 1,300 feet upstream of 5600 West Street

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Barneys Creek	Zone A	Zone AE	YES	YES
	No BFEs*	BFEs	YES	NONE
	No Floodway	Floodway	YES	NONE
	Zone A	Zone X (shaded)	NONE	YES

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

Beth A Norton

Beth A. Norton, CFM, Project Engineer
Engineering Management Section
Mitigation Division

109770 10.3.1.07080330 102-I-A-C

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Clay Hollow Wash – from approximately 3,020 feet downstream to approximately 970 feet upstream of 5600 West Street

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Clay Hollow Wash	Zone A	Zone AE	YES	YES
	No BFEs*	BFEs	YES	NONE
	No Floodway	Floodway	YES	NONE

* BFEs - Base Flood Elevations

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

Beth A Norton

Beth A. Norton, CFM, Project Engineer
Engineering Management Section
Mitigation Division

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

Beth A Norton

Beth A. Norton, CFM, Project Engineer
Engineering Management Section
Mitigation Division

109770 10.3.1.07080330 102-I-A-C

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Ms. Jeanine D. Petterson
Director, Federal Insurance and Mitigation Division
Federal Emergency Management Agency, Region VIII
Denver Federal Center, Building 710
P.O. Box 25267
Denver, CO 80225-0267
(303) 235-4830

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

Although the project area is shown on the above-referenced FIRM panels as within the unincorporated areas of Salt Lake County, the City of West Jordan has annexed portions of this area. We have not reflected these corporate limits changes in this LOMR.

We are processing a revised countywide FIRM and FIS report for Salt Lake County. The revised countywide FIRM and FIS report, which include flood hazard information for your community, will become effective in the fall of 2008. We will not incorporate the modifications made by this LOMR into the revised FIRM and FIS report before they become effective. Therefore, the modifications made by this LOMR will be superseded when the revised countywide FIRM and FIS report become effective. After the effective date, we will reissue this LOMR to revise the newly effective FIRM and FIS report.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

Beth A Norton

Beth A. Norton, CFM, Project Engineer
Engineering Management Section
Mitigation Division

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

PUBLIC NOTIFICATION

FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (FEET NGVD 29)		MAP PANEL NUMBER(S)
		EFFECTIVE	REVISED	
Barneys Creek	Just upstream of Airport Road	None	4,626	49035C0430 E
	Approximately 400 feet upstream of Grizzly Way	None	4,776	49035C0410 E
Clay Hollow Wash	Approximately 350 feet downstream of Grizzly Way	None	4,739	49035C0410 E
	Approximately 970 feet upstream of 5600 West Street	None	4,822	49035C0410 E

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. This revision is effective as of the date of this letter. However, until the 90-day period has elapsed, the revised BFEs presented in this LOMR may be changed.

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below.

LOCAL NEWSPAPER Name: *Salt Lake Tribune*
Dates: 08/09/2007 08/16/2007

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

Beth A Norton

Beth A. Norton, CFM, Project Engineer
Engineering Management Section
Mitigation Division

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF WEST JORDAN, SALT LAKE COUNTY, UTAH, UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On September 21, 2001, the Department of Homeland Security's Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in the City of West Jordan, Salt Lake County, Utah, through issuance of a Flood Insurance Rate Map (FIRM). The Mitigation Division has determined that modification of the Base (1-percent-annual-chance) Flood Elevations (BFEs) for certain locations in this community is appropriate. The modified BFEs revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

A hydraulic analysis was performed to incorporate updated topographic data, floodway and hydrologic analyses, and the effects of a channelization project along Barneys Creek from just downstream of 7800 South Street to approximately 1,300 feet upstream of 5600 West Street and along Clay Hollow Wash from approximately 3,020 feet downstream to approximately 970 feet upstream of 5600 West Street. This has resulted in increases and decreases in SFHA width and establishment of regulatory floodways and BFEs for Barneys Creek and Clay Hollow Wash. The aforementioned channelized portions of Barneys Creek and Clay Hollow Wash contain the base flood. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding source(s) cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Barneys Creek:		
Just upstream of Airport Road	None	4,626
Approximately 400 feet upstream of Grizzly Way	None	4,776
Clay Hollow Wash:		
Approximately 350 feet downstream of Grizzly Way	None	4,739
Approximately 970 feet upstream of 5600 West Street	None	4,822

*National Geodetic Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Division must develop criteria for floodplain management. To participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Division reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Division's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable David B. Newton
Mayor, City of West Jordan
2555 West Carson Lane
West Jordan, UT 84084

Table 8. Summary of Discharges

Flooding Source and Location	Drainage Area (Square Miles)	Peak Discharges (Cubic Feet Per Second) 10-Year	50-Year	100-Year	500-Year
Barneys Creek					
At 5900 West Detention Basin	16.08	--[1]	--[1]	10	--[1]
At Denver Rio Grande and Western Railroad	22.95	--[1]	--[1]	160	--[1]
Clay Hollow Wash					
At 5900 West Detention Basin	16.08	--[1]	--[1]	120	--[1]

[1] Data Not Available

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REFLECT LOMR
EFFECTIVE JUL 20 2007

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
						FEET (NGVD)		
Barneys Creek								
A	318	12	29	5.6	4,630.6	4,630.6	4,630.6	0.0
B	1,134	16	23	6.9	4,650.0	4,650.0	4,650.0	0.0
C	2,250	15	19	6.3	4,677.4	4,677.4	4,677.4	0.0
D	3,299	25	28	5.1	4,697.4	4,697.4	4,697.4	0.0
E	4,036	24	30	4.7	4,712.8	4,712.8	4,712.8	0.0
F	4,645	25	26	5.4	4,725.9	4,725.9	4,725.9	0.0
G	5,035	37	79	1.8	4,735.8	4,735.8	4,735.8	0.0
H	5,524	15	8	1.3	4,739.7	4,739.7	4,739.7	0.0
I	6,489	23	6	1.6	4,757.5	4,757.5	4,757.5	0.0
J	7,161	40	38	0.3	4,771.7	4,771.7	4,771.7	0.0

[1] Stream distance in feet above confluence with Barneys Creek

REVISED TO REFLECT LOMR EFFECTIVE JUL 20 2007

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY
SALT LAKE COUNTY, UT AND INCORPORATED AREAS

FLOODWAY DATA

BARNEYS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
						FEET (NGVD)		
Clay Hollow Wash								
A	298	24	45	2.7	4,740.6	4,740.6	4,740.6	0.0
B	573	27	43	2.8	4,746.6	4,746.6	4,746.6	0.0
C	1,428	21	26	4.7	4,764.5	4,764.5	4,764.5	0.0
D	3,016	36	25	4.7	4,801.6	4,801.6	4,801.6	0.0
E	3,956	34	25	4.9	4,818.0	4,818.0	4,818.0	0.0

1 Stream distance in feet above confluence with Barneys Creek

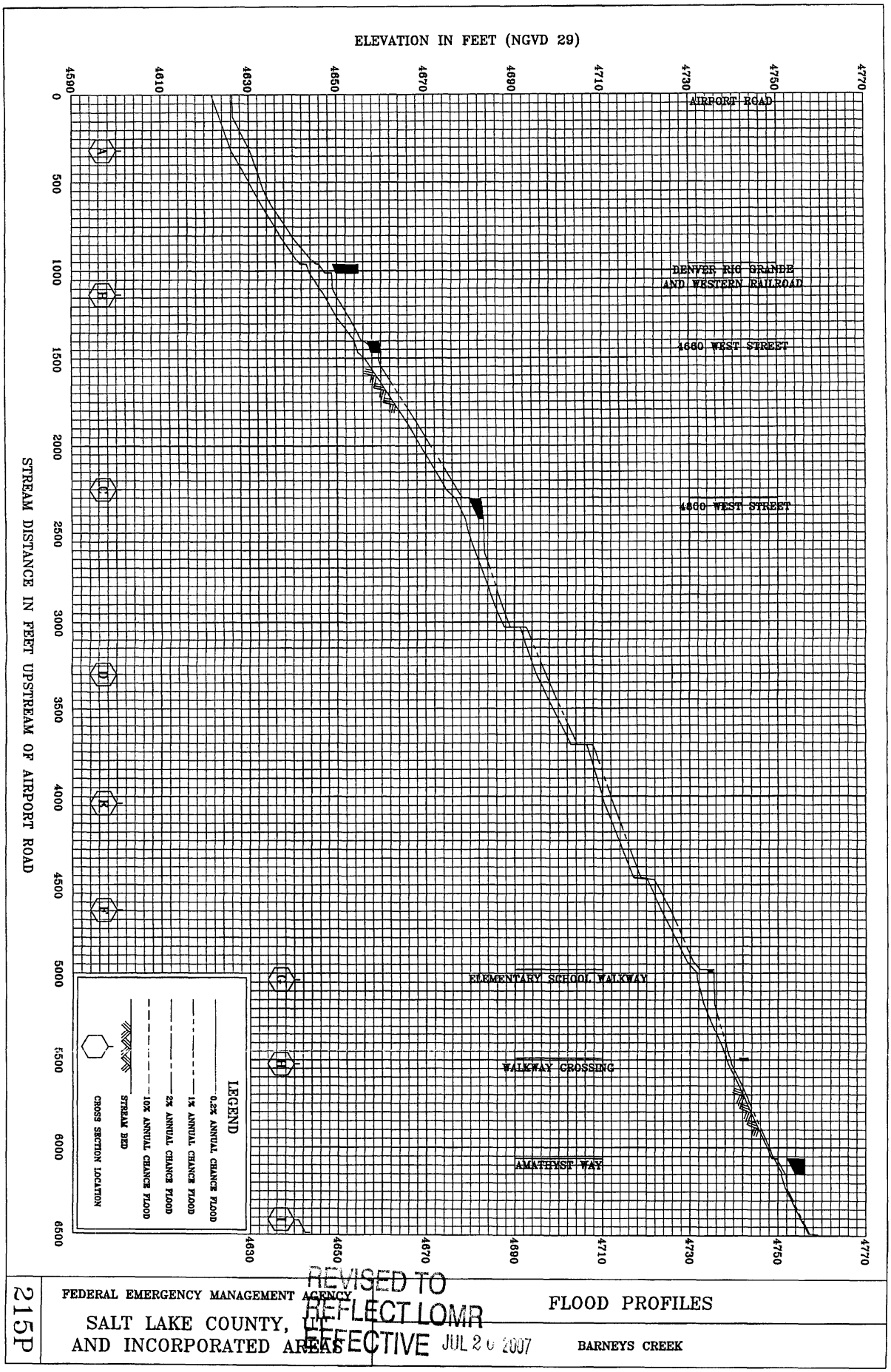
REVISED TO REFLECT LOMR EFFECTIVE JUL 20 2007

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY
SALT LAKE COUNTY, UT AND INCORPORATED AREAS

FLOODWAY DATA

CLAY HOLLOW WASH



215P

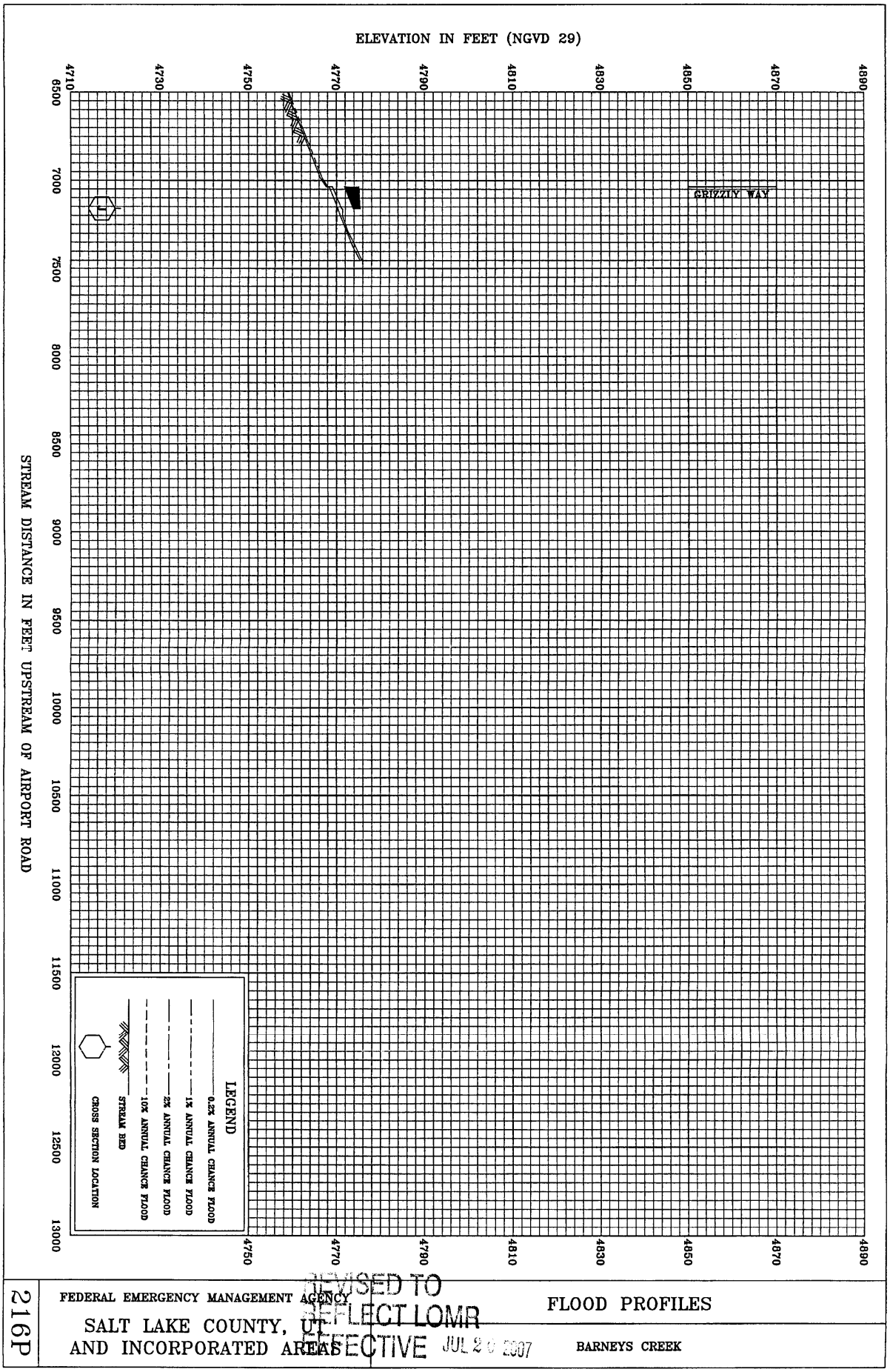
FEDERAL EMERGENCY MANAGEMENT AGENCY

SALT LAKE COUNTY, UT
AND INCORPORATED AREAS

REVISED TO REFLECT LOMR EFFECTIVE JUL 2 0 2007

FLOOD PROFILES

BARNEYS CREEK



216P

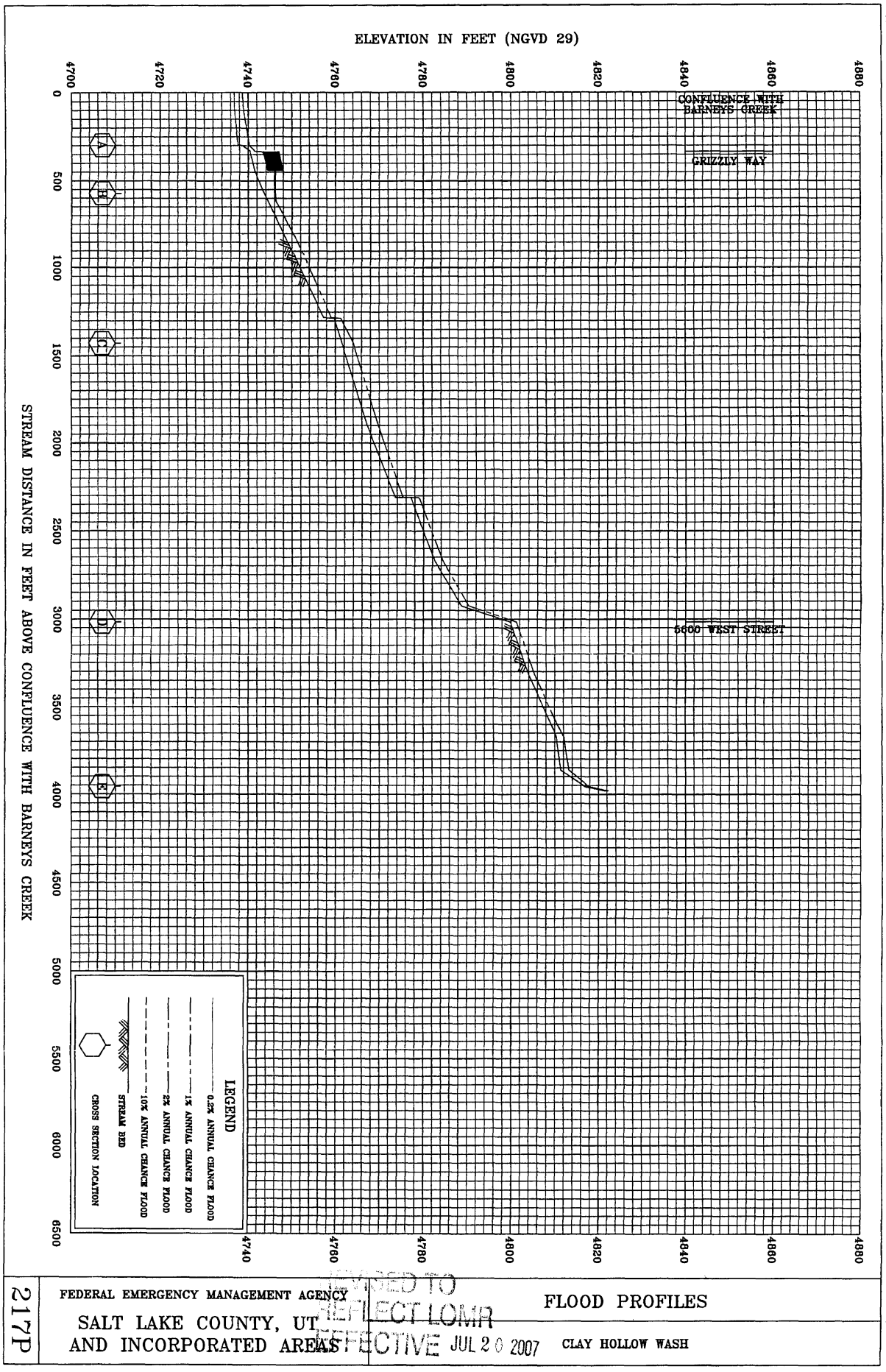
FEDERAL EMERGENCY MANAGEMENT AGENCY

SALT LAKE COUNTY, UT
AND INCORPORATED AREAS

REVISED TO REFLECT LOMR EFFECTIVE JUL 2 0 2007

FLOOD PROFILES

BARNEYS CREEK



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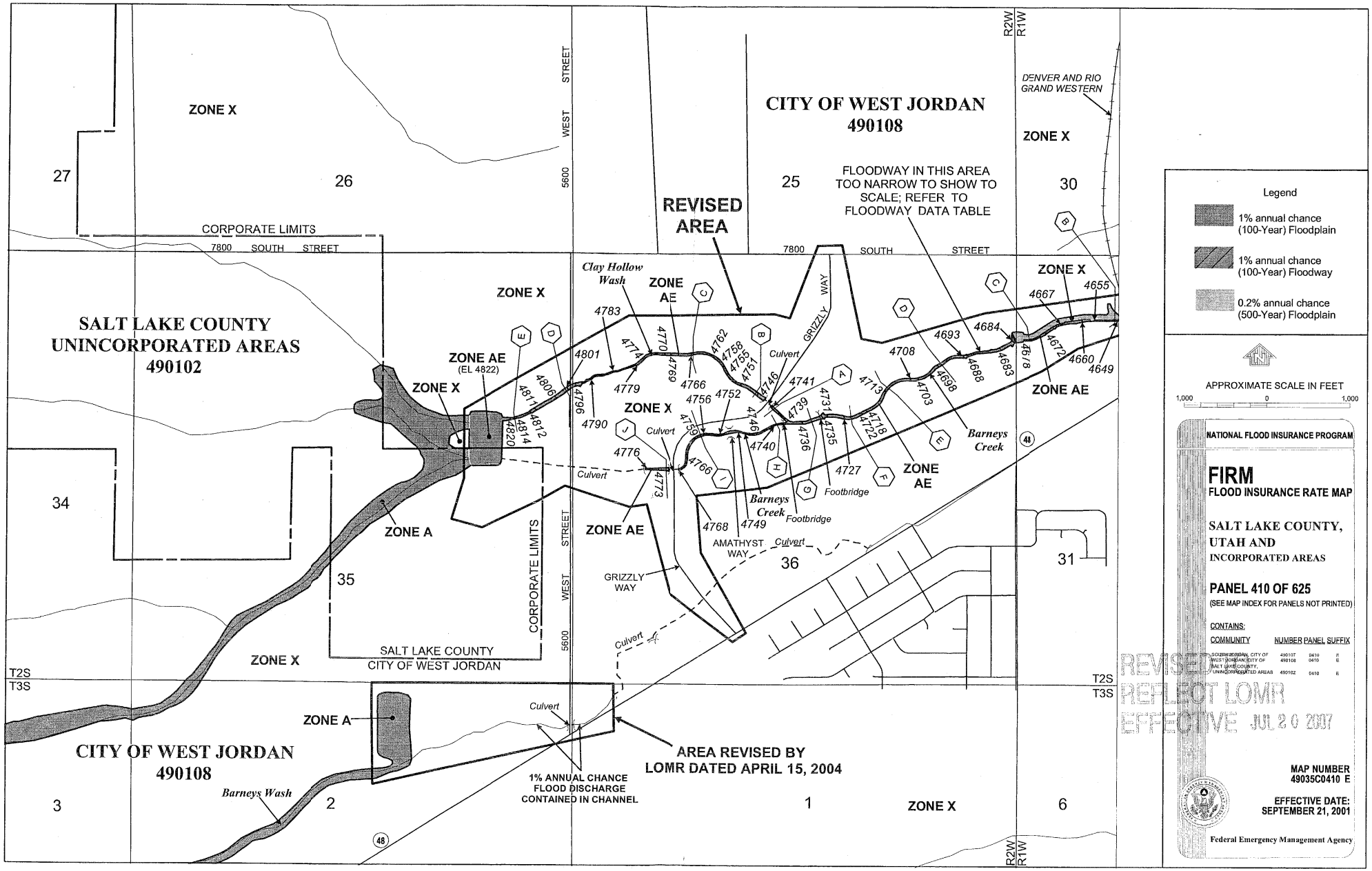
FEDERAL EMERGENCY MANAGEMENT AGENCY

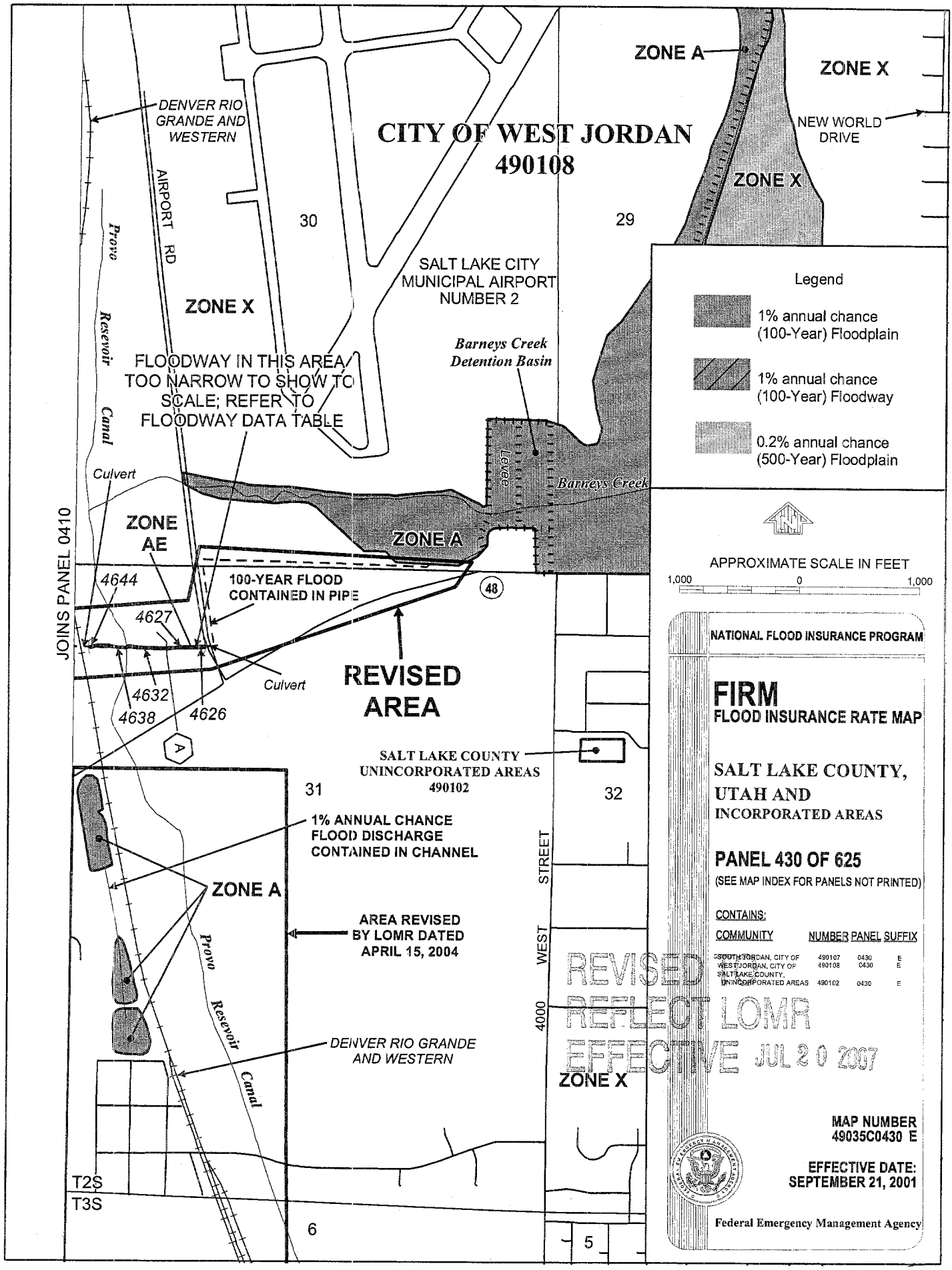
SALT LAKE COUNTY, UT
AND INCORPORATED AREAS

REVISED TO REFLECT LOMR EFFECTIVE JUL 20 2007

FLOOD PROFILES

CLAY HOLLOW WASH


CITY OF WEST JORDAN
490108
SALT LAKE COUNTY
UNINCORPORATED AREAS
490102
CITY OF WEST JORDAN
490108
REVISED AREA
FLOODWAY IN THIS AREA TOO NARROW TO SHOW TO SCALE; REFER TO FLOODWAY DATA TABLE
ZONE X
ZONE AE
(EL 4822)
ZONE A
ZONE AE
ZONE X
ZONE AE
ZONE X
ZONE A
ZONE X
ZONE X
ZONE AE
ZONE X
ZONE AE
ZONE X
ZONE X
Clay Hollow Wash
Barneys Creek
Barneys Wash
DENVER AND RIO GRAND WESTERN
CORPORATE LIMITS
7800 SOUTH STREET
5600 WEST STREET
GRIZZLY WAY
AMATHYST WAY
Culvert
Footbridge
SALT LAKE COUNTY
CITY OF WEST JORDAN
AREA REVISED BY LOMR DATED APRIL 15, 2004
1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL
27
26
25
30
34
35
36
31
3
2
1
6
T2S
T3S
R2W
R1W
48
Legend
1% annual chance (100-Year) Floodplain
1% annual chance (100-Year) Floodway
0.2% annual chance (500-Year) Floodplain
APPROXIMATE SCALE IN FEET
1,000 0 1,000
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
SALT LAKE COUNTY, UTAH AND INCORPORATED AREAS
PANEL 410 OF 625
(SEE MAP INDEX FOR PANELS NOT PRINTED)
CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
SOUTH JORDAN, CITY OF 490107 0410 E
WEST JORDAN, CITY OF 490108 0410 E
SALT LAKE COUNTY, UNINCORPORATED AREAS 490102 0410 E
REVISED TO REFLECT LOMR EFFECTIVE JUL 20 2007
MAP NUMBER
49035C0410 E
EFFECTIVE DATE:
SEPTEMBER 21, 2001
Federal Emergency Management Agency



Section 3: Canals and Misc. Creeks

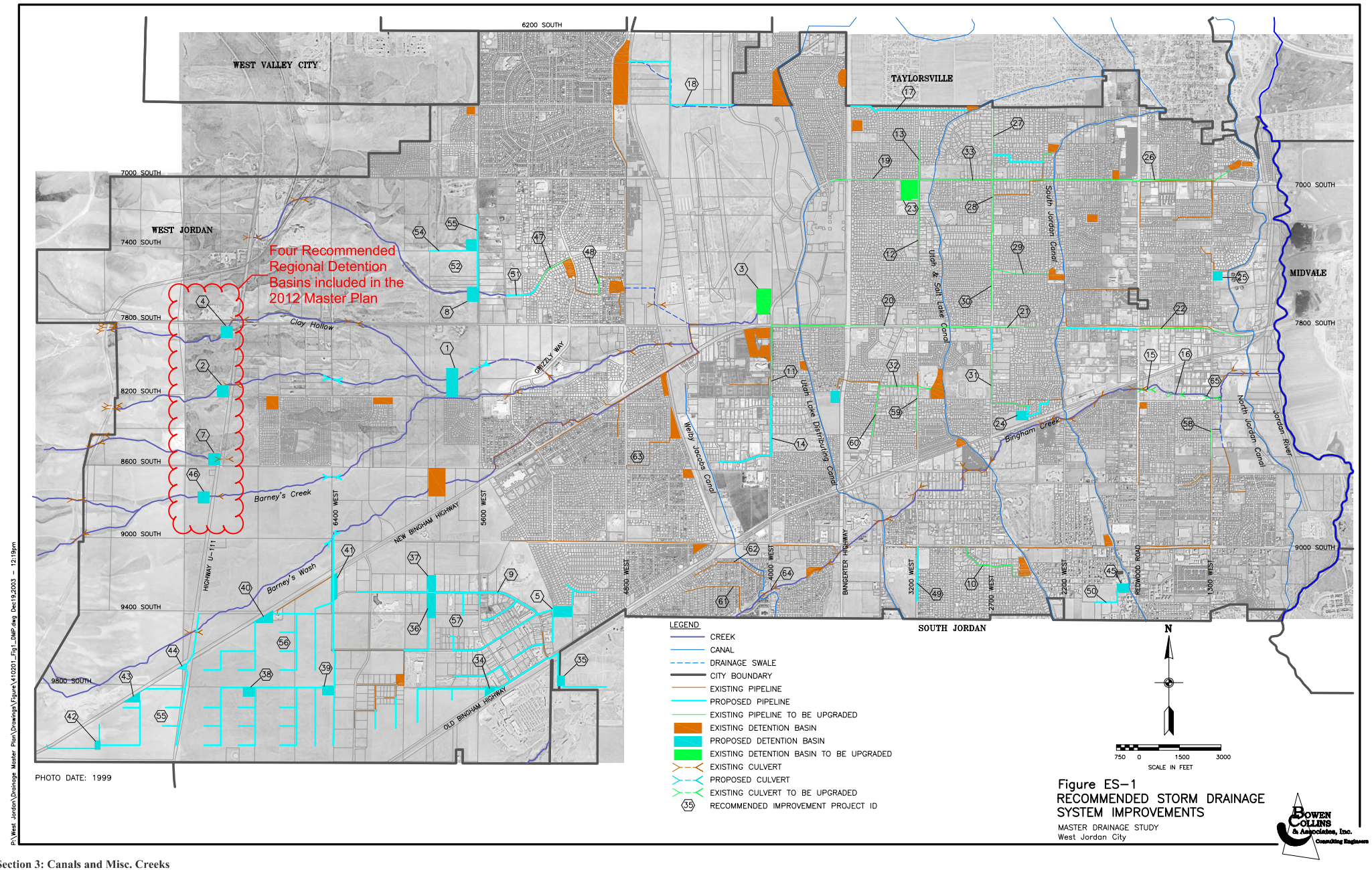


Figure ES–1
RECOMMENDED STORM DRAINAGE SYSTEM IMPROVEMENTS
MASTER DRAINAGE STUDY
West Jordan City

Bowen Collins & Associates, Inc. Consulting Engineers

P:\West Jordan\Drainage Master Plan\Drawings\Figure\410201_Fig1_DMP.dwg Dec19,2003 - 12:19pm

APPENDIX G

Detailed Flow Rates

Barneys Creek Flow Rates

Page	ID	ARF	Culvert or Bridge Location	FEMA Summary of Discharges (cfs)	Existing Conditions Flow Rate (cfs)	Future Build-Out Condition Flow Rate - All Future Development Areas Detain to 0.2 cfs/ac (cfs)	Future Build-Out Condition Flow Rate - All Future Development Areas Detain to 0.02 cfs/ac (cfs)	Existing Culvert/ Bridge Size	Estimated Hydraulic Capacity (cfs - Inlet Controlled Nomograph)	Estimated Hydraulic Capacity (cfs - HEC-RAS Model)	Recommended Culvert/Bridge Size Alt 1	Recommended Culvert/Bridge Size Alt 2	Recommended Culvert/Bridge Size Alt 3	Notes Alt 1	Notes Alt 2	Notes Alt 3
	BA-01	0.75	7800 South to Airport Detention Basin		320	580	325	2 x 48-inch Diameter	N/A	390		3 x 78" RCP or Equivalent			Pipe has inadequate capacity causing roadway to flood.	
	BA-2A	0.80	Airport Rd. to 7800 South		250	600	310	66-inch Diameter	N/A	220		3 x 78" RCP or Equival	Parrallel 66" RCP		Pipe has inadequate capacity causing roadway to flood.	Pipe has inadequate capacity due to slope of 0.2%.
	BA-2B	0.85	Airport Rd. Crossing		155	290	215	2 x 42-inch Diameter	180	185		2 x 66" RCP or Equivalent			Pipe has inadequate capacity causing banks to overtop.	
	BA-03	0.85	Railroad Crossing (4600 West)	160	155	290	215	66-inch Diameter	260	290					Culvert has inadequate capacity causing banks and road to overtop.	Culvert opening has capacity, banks will overtop causing flooding.
	BA-04	0.85	4660 West		155	290	215	5-ft X 3-ft	105	135	10' x 4'	10' x 4'	10' 4 '	Culvert has inadequate capacity causing road to overtop.	Culvert has inadequate capacity causing road to overtop.	Culvert has inadequate capacity causing road to overtop.
	BA-05	0.85	4800 West		155	290	215	5-ft X 3-ft	90	100	12' x 3.5'	12' x 3.5'	12' x 3.5'	Culvert has inadequate capacity causing road to overtop.	Culvert has inadequate capacity causing road to overtop.	Culvert has inadequate capacity causing road to overtop.
	BA-06	0.85	Barney's Creek Trail #1 (5200 West)		125	285	205	5-ft X 3-ft	70	65		18' x 3'	18' x 3'		Culvert has inadequate capacity causing trail to overtop. Increasing capa	Culvert has inadequate capacity causing trail to overtop. Increasing capacity requires raising banks.
	BA-07	0.85	Barney's Creek Trail #2 (5100 West)		75	75	75	5-ft X 3-ft	80	90						
	BA-08	0.85	Amethyst Drive (5420 West)		75	75	75	5-ft x 3.2-ft	100	110						
	BA-09	0.85	Grizzly Way (5300 West)		40	40	40	2 x 42-inch Diameter	180	170						
	BA-10	0.85	5600 West	10	10	10	10	36-inch Diameter	140	105						
	BA-11	1.00	Mountain View Corridor		120	225	165	8-ft X 6-ft	460	430						
	BA-12	1.00	Maple Water Drive (5900 West)		100	200	140	10-ft x 6-ft	500	410						
	BA-13	1.00	Birch Water Lane (5980 West)		100	200	140	10-ft x 6-ft	525	500						
	BA-14	1.00	Fallwater Drive (6000 West)		100	200	140	10-ft x 6-ft	625	615						
	BA-15	1.00	6160 West		70	185	115	8-ft x 6-ft	500	475						
	BA-16	1.00	8600 South		50	175	105	8-ft x 6-ft	480	420						
	BA-17	1.00	6400 West		50	175	105	8-ft X 6-ft	400	370						
	BA-18	1.00	Bacchus Highway		25	145	95	72-inch Diameter	240	250						
	BA-19	1.00	Farm Road (7400 West)		20	110	95	30-inch Diameter	40	40		5' x 3'	5' x 3'		Culvert has inadequate capacity causing road to overtop.	Culvert has inadequate capacity causing road to overtop.
	CH-01	0.85	Grizzly Way (5300 West)		50	275	200	48-inch Diameter	180	180		6' x 5'			Culvert has inadequate capacity causing road to overtop. Flow in Clay Hollow primarily comes from emergency spillway of large regional detention basin at Mountain View Corridor.	
	CH-02	0.85	Clay Hollow Trail		10	280	200	9-ft x 5-ft	400	400						
	CH-03	0.85	5600 West		10	280	200	10-ft x 4-ft	300	300						
	CH-04	0.85	Uinta View Way		0	270	190	42-inch Diameter[1]	90	90				There is an overflow channel that is expected to have adequate capacity to convey any bubble up flow to downstream culvert	There is an overflow channel that is expected to have adequate capacity to convey any bubble up flow to downstream culvert	There is an overflow channel that is expected to have adequate

Notes:

[1] CH-04 includes an overflow channel that will convey runoff in excess of 42-inch pipe capacity

Section 3: Canals and Misc. Creeks

Bingham Creek Flow Rates

Page	ID	ARF	Culvert or Bridge Location	Future Build-Out 2002 SWCCS Flows (cfs)	FEMA Summary of Discharges (cfs)	Existing Flow Rate (cfs)	Future Flow Rate (cfs)	Existing Culvert/Bridge Size	Estimated Hydraulic Capacity (cfs)	Recommended Culvert Size	Notes (ex)	Notes (fut)	Road Overtop: HEC-RAS model
10	BC-01		North Jordan Canal	675		640	950	6' x 12' Box	960			Culvert has capacity, but required head to pass flow will overtop banks upstream.	
	BC-02		Gravel Lane / 8050 South	675		640	950	6' X 20' Box	950			If sediment is removed culvert will have adequate capacity.	
	BC-03		No Name	675		640	950	Pipe 1 = 48" Pipe 2= 32"	105		Pipes have inadequate capacity, culvert and banks will overtop.	Pipes have inadequate capacity, culvert and banks will overtop.	Overtops
9	BC-04		1300 West / Temple Drive	675		540	720	6' x 12'	1070				
8	BC-05		1500 West	675		465	630	4.75' CMP	350		Culvert has inadequate capacity, road will overtop.	Culvert has inadequate capacity, road will overtop.	Overtops
	BC-06		Pedestrian Bridge	675		465	630	5' X 20'	630		Bridge has inadequate capacity, bridge and banks will both overtop	Bridge has inadequate capacity, bridge and banks will both overtop	Overtops
	BC-07		1650 West	675		465	630	5' x 16'	850				
	BC-08		Redwood Road	675		465	630	5x 15'	800				
	BC-09		Pedestrian Bridge	675		465	630	3' High X 18'	690				
	BC-10		Sugar Factory Road / 8200 South	675		465	630	5' x 16'	830				
	BC-11		Pedestrian Bridge	625		465	630	9' High X 32'	700				
7	BC-12		2200 West / South Jordan Canal	625		420	565	4' X 12'	570				
	BC-13		Club Ln.	560		420	565	8' x 11 CMP	360		Culvert has capacity, but flow will overtop right bank and flood golf course.	Culvert has capacity, but flow will overtop right bank and flood golf course.	
6	BC-14		2700 West / Utah & Salt Lake Canal	560		370	500	US: 5' x 12' DS: 5' x 10'	780				
	BC-15		Apartment Complex near 8600 South	560		370	500	5' X 8'	520			Culvert has inadequate capacity, road and banks will overtop.	Overtops
	BC-16		8600 South / Haun Dr.	560		370	500	5' x 8'	440		Transition drop inlet increases the capacity of the culvert, no project required.	Transition drop inlet increases the capacity of the culvert, no project required.	Overtops
	BC-17		3200 West	560		370	500	US: 5' x 12' DS: 5' x 8'	650				
	BC-18		Pagoda Grove Cir.	465		370	500	5' x 10'	610				
5	BC-19		Utah Lake Distribution Canal	465		290	450	4' X 8'	400			Culvert is not defecient because it is a detention basin outlet structure.	Overtops
	BC-20		3400 West	495		290	450	5' x 10'	740				Overtops
	BC-21		Jordan Valley Hospital	495		290	450	5' X 10'	600				
	BC-22		3590 West	495		290	450	5' x 10'	1400				
	BC-23		Bangerter Highway	495		290	450	DS: 7' CMP US: 7' X 13'	1130				
4	BC-24		Judd Lane / 3710 West	495		120	330	4' x 6 ' Double	1300				
3	BC-25		4000 West	495		120	320	5 x 10'	560				
	BC-26		Welby Jacobs Canal	445	480	120	320	10' x 4.5' Arch	1100				
	BC-27		Laurel Ridge	445		120	320	8' CMP	2500				
	BC-28		Private Bridge	445		120	320	5' x 16' Arch	600				
2	BC-29		Skye Drive	445	360	105	220	4' CMP	130			Culvert has inadequate capacity, parking lot and road will overtop.	arely Overtops
	BC-30		4800 West	410		105	220	10' x 12'	2000				
	BC-31		Dirt Road	410		105	220	4' CMP	150				
	BC-32		Railroad	410		105	220	14.5' CMP	4000				
1	BC-33		Mountain View Corridor Northbound	410		75	80	39' x 100'	4000				
	BC-34		Mountain View Corridor Southbound	410	205	75	80	39' x 100'	4000				
	BC-35		Pedestrian Bridge west of Mountain View Corridor	410		75	80	10' High x 66.5'	3300				
	BC-36		Bacchus Highway	300		75	80	8' x 6'	760				
	BC-37		Dirt Access Road	105	100	75	80	2.67' CMP	70				

Wood Hollow & Wood Hollow South Flow Rates

ID	Culvert or Bridge Location	Existing Culvert Size (Diameter)	Estimated 100-yr Discharge for Existing Conditions (cfs)	Estimated 100-yr Discharge for Future Conditions for Alternative 1 (cfs)	Estimated 100-yr Discharge for Future Conditions for Alternative 2 (cfs)	Estimated 100-yr Discharge for Future Conditions for Alternative 3	Estimated Culvert Capacity (cfs)	Inlet Controlled Nomograph Culvert Capacity (cfs)
WH-1	Pipe from overflow pond to Jordan River	36" RCP	130	340	150	150	200	0
WH-2	Pipe from USLC to Overflow Pond	48" RCP	130	360	160	160	235	0
WH-3	Pipe from ULDC to USLC	42" to 48" RCP	130	270	160	160	155 - 235	0
WH-4	Pipe from Redwood Road to ULDC	30" to 42" RCP	130	160	160	160	85 - 120	0
WH-5	Pipe under Redwood Road	48" RCP	110	140	140	140	140	140
WH-6	Welby Jacob Canal	39" CMP	110	140	140	140	70	70
WH-7	Mountain View Corridor	48" RCP	110	130	130	130	280	280
WH-8	Gravel Pit Road	48" RCP	100	130	130	130	420	300+
WHS-1	South Jordan Canal	--	0	0	230	0	--	--
WHS-2	Utah & Salt Lake Canal	--	25	80	200	35	--	--
WHS-3	Utah Lake Distribution Canal	10' x 6' Arch	25	80	190	35	1100	Not a Restriction
WHS-4	Trail	4' CMP	25	80	80	35	170	180
WHS-5	Redwood Road	27' x 11' Box	23	80	80	35	3980	4180
WHS-6	Pipe under Welby Jacob Canal	2' CMP	23	50	50	30	55	0
WHS-7	Pipe from Start to Welby Jacob Canal	2' CMP	23	40	40	30	30	30
ULDC-33	Ironhorse Blvd	5' RCP	90	50	70	80	190	
ULDC-34	15730 S	14' X 6'	90	140	50	70	160	
ULDC-35	Porter Rockwell Blvd	12' X 6'	90	140	50	70	200	
USLC-82	Iron Horse Blvd	20'X7' Box	190	260	175	200	800	
USLC-83	Trail Bridge #2	45' Footbridge	195	255	170	200	Not a Restriction	
USLC-85	Trail Bridge #3	48' Footbridge	180	190	190	180	Not a Restriction	

Beef Hollow Flow Rates

Page	ID	Culvert Location	Future Build-Out 2002 SWCCS Flows (cfs)	FEMA Summary of Discharges (cfs)	100-Year Discharge Associated with Existing Development (cfs)	Estimated Full Build-Out 100-Year Discharge (cfs)	Existing Culvert Size	Estimated Hydraulic Capacity (cfs)	Recommended Culvert Size	Notes
	BH-1	Jordan River Parkway & ULDC	105	N/A	90	105	48" RCP	160		
	BH-2	Dirt Road 1	105	N/A	90	100	60" CMP	260		
	BH-3	Redwood Road	105	N/A	90	100	42" RCP	115		
	BH-4	Dirt Road 2	105	N/A	90	90	18" CMP	8	42" RCP	This is currently an access road, if the road is improved or washed out the capacity of the culvert should be increased.

Utah Lake Distributing Canal Flow Rates

ID	Culvert or Bridge Location	Approximate Peak Summer Irrigation Flow (cfs)	Future Build-Out 100-yr Design Storm Water Flow from 2002 SWCCS Flows[1] (cfs)	Existing 100-yr Design Storm Flow[1] (cfs)	Existing 100-yr Design Storm Combined Irrigation and Storm Flow Rate[2] (cfs)	Future 100-yr Design Storm Build Out Storm Flow[1] (cfs)	Future 100-yr Build Out Design Storm Combined Irrigation and Storm Flow Rate (cfs)	Existing Culvert Size	Estimated Hydraulic Capacity
ULDC-01	ULDC Pipeline from 7200 South to 7000 South Outlet	20		35	55	40	60	10' X 4'	85
ULDC-02	ULDC Pipeline from 7400 South to 7200 South	20		25	45	25	45	10' X 4'	70
ULDC-03	ULDC Pipeline from 7550 South to 7400 South	20		15	35	15	35	10' X 4'	100
ULDC-04	ULDC Pipeline from 7800 South to 7550 South	20		5	25	5	25	10' X 4'	70
ULDC-05	7800 South Dumpout	30	80	35	65	35	65	24' Weir	170
ULDC-06	7825 South - Control Structure	30	80	35	65	35	65	N/A	N/A
ULDC-07	8070 South	30	80	35	65	35	65	12' X 6'	260
ULDC-08	Susan Way	30	80	35	65	35	65	8' X 5'	120
ULDC-09	3600 West/Old Bingham Hwy	30	0	0	30	0	30	8' X 6'	150
ULDC-10	3400 West	30	0	0	30	0	30	10' X 5'	160
ULDC-11	Bingham Creek - Dumpout	30	90	30	60	30	60	20' Weir	355
ULDC-12	9000 South	30	90	30	60	30	60	10' X 6'	205
ULDC-13	9400 South - Control Structure	35	0	0	35	0	35	N/A	N/A
ULDC-14	9425 South - Control Structure	35	0	0	35	0	35	N/A	N/A
ULDC-15	3200 West	35	0	0	35	0	35	15' X 5'	270
ULDC-16	9600 South - Control Structure	35	0	0	35	0	35	N/A	N/A
ULDC-17	Shields Ln	35	0	0	35	0	35	15' X 5'	270
ULDC-18	Wheadon Ln	35	0	0	35	0	35	Bridge	175
ULDC-19	Jordan Parkway/10400 South	35	0	0	35	0	35	14' X 5'	250
ULDC-20	10755 South	35	0	0	35	0	35	12' X 6'	260
ULDC-21	11000 South - Farm Bridge	35	0	0	35	0	35	Bridge	130
ULDC-22	Jarans Honor Dr	35	0	0	35	0	35	12' X 6'	260
ULDC-23	Alta Peak Road	35	0	0	35	0	35	12' X 6'	260
ULDC-24	3200 West	35	0	0	35	0	35	12' X 7'	320
ULDC-25	11400 South	35	0	0	35	0	35	12' X 6'	260
ULDC-26	11800 South	45	0	0	45	0	45	10' X 4'	120
ULDC-27	Midas Creek - Dumpout	45	235	55	100	55	100	18' Weir	360
ULDC-28	12600 South	45	235	30	75	30	75	12' X 6'	260
ULDC-29	12730 South	45	235	30	75	30	75	9' X 6'	175
ULDC-30	13400 South	45	0	0	45	0	45	12' X 5'	205
ULDC-31	Sanborn Dr	45	0	0	45	0	45	12' X 6'	260
ULDC-32	Rose Creek - Dumpout	45	265	95	140	95	140	12' Weir	115
ULDC-33	Bangerter Hwy	50	265	95	145	95	145	17' X 5'	320
ULDC-34	13800 South	50	265	95	145	95	145	17' X 5'	320
ULDC-35	14100 South - Farm Bridge	50	265	95	145	95	145	Bridge	190
ULDC-36	14400 South	50	265	95	145	95	145	14' X 5'	250
ULDC-37	2700 West	50	265	105	155	105	155	12' X 5'	205
ULDC-38	14775 South - Control Structure	50	265	105	155	105	155	N/A	N/A
ULDC-39	2200 West	50	265	105	155	105	155	12' X 5'	205
ULDC-40	Redwood Rd	50	140	75	125	75	125	12' X 5'	205
ULDC-41	15050 South - Control Structure	50	140	75	125	75	125	N/A	N/A
ULDC-42	Iron Horse Blvd	50	140	40	90	40	90	60"	190
ULDC-43	Wood Hollow - Proposed Dumpout Structure	50	140	40	90	40	90	N/A	N/A
ULDC-44	15730 South	50	140	40	90	40	90	14' X 6'	160
ULDC-45	Porter Rockwell Blvd	50	140	40	90	40	90	12' X 6'	200
ULDC-46	Wood Hollow South - Proposed Dumpout Structure	50	140	40	90	40	90	N/A	N/A
ULDC-47	16500 South - Farm Bridge	50	140	40	90	40	90	Bridge	420
ULDC-48	16550 South - Farm Bridge	50	140	40	90	40	90	Bridge	220

1 = Storm Flow Only

2 = Includes both Irrigation and Storm Flow

Hollows

Rose Creek

Midas Creek

Bingham Creek

Jordan Landing

Section 3: Canals and Misc. Creeks

Utah & Salt Lake Canal Flow Rates

ID	Structure Location	Structure Type	Approximate Peak Summer Irrigation Flow (cfs)	2002 SWCCS Future Build-Out 100-yr Design Storm Flow (cfs)	Existing 100-Year Design Storm Flow Only (cfs)	Existing 100-yr Design Storm Combined Flow (cfs)	Future 100-y Design Storm Flow Only (cfs)	Future 100-yr Design Storm Combined Flow (cfs)	Existing Culvert Size	Estimated Culvert Capacity (cfs)
USLC-01	9200 West - Access Bridge	Bridge	30	0	25	55	25	55	13' Wide	290
USLC-02	9200 West	Culvert	30	0	25	55	25	55	16'X4' Box	230
USLC-03	8920 West	Culvert	30	0	25	55	25	55	17'X5.3' Box	370
USLC-04	3500 South	Culvert	30	0	25	55	25	55	16'x4.5' Box	270
USLC-05	Elk Point Dr.	Culvert	30	0	25	55	25	55	16'X7' Arch	320
USLC-06	8400 West	Culvert	30	0	30	60	30	60	14'X5' Box	270
USLC-07	8300 West - Control Structure	Control Structure	30	0	30	60	30	60	N/A	N/A
USLC-08	8000 West	Bridge	30	0	0	30	0	30	23' Wide	400
USLC-09	8000 West - Dumpout	Canal Dumpout	60	115	125	185	140	200	20' Weir	700
USLC-10	Valley Forge Rd.	Culvert	60	115	125	185	140	200	20'X6' Arch	400
USLC-11	7225 West - Control Structure	Control Structure	60	115	125	185	140	200	N/A	N/A
USLC-12	7200 West	Bridge	60	115	130	190	140	200	20' Wide	190
USLC-13	6800 West	Bridge	60	115	130	190	140	200	25' Wide	390
USLC-14	6700 West - Control Structure	Inline	60	115	130	190	140	200	N/A	N/A
USLC-15	6400 West	Bridge	60	115	140	200	140	200	20' Wide	400
USLC-16	6000 West	Bridge	60	115	110	170	110	170	25' Wide	670
USLC-17	Mountain View Corridor	Bridge	60	115	80	140	80	140	18' Wide	420
USLC-18	Lowe's Parking Lot	Culvert	60	115	80	140	80	140	20'X5.2' Arch	340
USLC-19	4100 South	Bridge	60	115	80	140	80	140	24' Wide	340
USLC-20	5600 West	Bridge	60	115	80	140	80	140	24' Wide	730
USLC-21	5400 West	Bridge	60	115	70	130	85	145	24' Wide	410
USLC-22	4800 West	Bridge	60	115	85	145	85	145	24' Wide	430
USLC-23	Dartmouth Dr.	Bridge	60	115	85	145	85	145	24' Wide	700
USLC-24	Midway Dr.	Bridge	60	115	85	145	85	145	20' Wide	930
USLC-25	4700 South - Control Structure	Inline Bridge	60	115	70	130	70	130	N/A	N/A
USLC-26	4700 South - Dumpout	Canal Dumpout	60	125	70	130	70	130	15' Weir	405
USLC-27	4700 South - Access Bridge	Bridge	60	125	70	130	70	130	25' Wide	400
USLC-28	4700 South	Bridge	70	135	50	120	50	120	22' Wide	360
USLC-29	4715 South - Access Bridge	Bridge	70	135	50	120	50	120	24' Wide	560
USLC-30	4000 West	Bridge	70	135	50	120	50	120	24' Wide	320
USLC-31	Bangerter Hwy (3800 West)	Culvert	70	135	50	120	50	120	20'X7' Box	680
USLC-32	3600 West	Culvert	70	135	35	105	35	105	26'X6' Box	750
USLC-33	3200 West	Bridge	70	135	35	105	35	105	24' Wide	570
USLC-34	5400 South	Culvert	70	0	0	70	0	70	26'X5.5' Box	660
USLC-35	5400 South - Control Structure	Control Structure	70	0	0	70	0	70	N/A	N/A
USLC-36	5400 South - Dumpout	Canal Dumpout	100	165	140	240	150	250	15' Weir	N/A
USLC-37	Bastile Dr.	Bridge	100	165	140	240	150	250	22' Wide	560
USLC-38	2700 West	Bridge	100	165	140	240	145	245	22' Wide	820
USLC-39	6200 South	Bridge	100	165	140	240	145	245	22' Wide	420
USLC-40	2200 West	Bridge	100	165	140	240	145	245	20' Wide	430
USLC-41	2000 West - Control Structure	Control Structure	100	165	140	240	145	245		N/A
USLC-42	2050 West - Farm Bridge	Bridge	100	165	140	240	145	245	22' Wide	400
USLC-43	2200 West	Bridge	100	165	140	240	145	245	24' Wide	440

USLC-44	2700 West	Culvert	60	165	70	130	85	145	18'X7' Arch	400
USLC-45	7000 South - Control Structure	Control Structure	100	165	140	240	145	245	N/A	N/A
USLC-46	7000 South	Culvert	100	165	140	240	145	245	26'X6.5' Box	850
USLC-47	7325 South - Control Structure	Control Structure	100	165	50	150	50	150	N/A	N/A
USLC-48	7800 South - Dumpout	Canal Dumpout	120	235	90	210	130	250	24' Weir	255
USLC-49	7800 South	Bridge	120	235	90	210	130	250	20' Wide	510
USLC-50	8250 South - Control Structure	Control Structure	120	235	90	210	100	220	N/A	N/A
USLC-51	UTA Trax Red Line	Bridge	120	235	10	130	15	135	34' Wide	510
USLC-52	2700 West - Control Structure	Inline Bridge	120	235	0	120	0	120	N/A	N/A
USLC-53	Bingham Creek - Dumpout	Canal Dumpout	130	405	140	270	145	275	20' Weir	430
USLC-54	2700 West	Culvert	130	405	140	270	145	275	18'X8' Arch	450
USLC-55	Golf Course Bridge (8600 South)	Bridge	130	405	140	270	145	275	20' Wide	530
USLC-56	Gardner Ln.	Bridge	130	405	140	270	145	275	25' Wide	580
USLC-57	Golf Course Bridge (8675 South)	Bridge	130	405	140	270	145	275	20' Wide	830
USLC-58	9000 South	Culvert	130	405	140	270	145	275	16'X7.5'	320
USLC-59	9150 South - Control Structure	Control Structure	130	405	140	270	145	275	N/A	N/A
USLC-60	9450 South - Control Structure	Control Structure	130	405	130	260	130	260	N/A	N/A
USLC-61	2200 West	Culvert	130	405	120	250	120	250	20'X7.6' Arch	520
USLC-62	9800 South	Culvert	130	405	120	250	120	250	20'X7' Box	830
USLC-63	Marv Jensen Park	Bridge	130	405	105	235	105	235	20' Wide	680
USLC-64	10400 South	Bridge	130	405	105	235	105	235	22' Wide	930
USLC-65	Culmination St.	Bridge	130	405	105	235	105	235	20' Wide	730
USLC-66	2200 West	Culvert	130	405	105	235	105	235	18'X7.5' Arch	430
USLC-67	Gallant Fox Ct.	Culvert	130	405	50	180	50	180	20'X6' Arch	550
USLC-68	11200 South - Access Bridge	Bridge	130	405	15	145	15	145	26' Wide	930
USLC-69	11400 South - Control Structure	Control Structure	130	405	5	135	5	135	N/A	N/A
USLC-70	11400 South	Culvert	130	405	5	135	5	135	24'X8' Box	1030
USLC-71	11625 South	Bridge	130	405	5	135	5	135	16' Wide	970
USLC-72	Midas Creek - Dumpout	Canal Dumpout	140	360	180	320	180	320	18' Weir	265
USLC-73	11800 South	Bridge	140	360	180	320	180	320	22' Wide	810
USLC-74	12600 South	Bridge	140	360	100	240	100	240	20' Wide	1340
USLC-75	12750 South - Control Structure	Control Structure	140	360	100	240	100	240	N/A	N/A
USLC-76	13035 South	Culvert	140	360	50	190	50	190	24'X7' Box	820
USLC-77	13400 South	Culvert	140	360	20	160	20	160	22'X6' Box	590
USLC-78	Bangerter Hwy (13800 South)	Culvert	140	360	0	140	0	140	20'X7' Box	650
USLC-79	Rose Creek - Dumpout	Canal Dumpout	170	310	185	355	190	360	18' Weir	220
USLC-80	13800 South - Control Structure	Control Structure	170	310	185	355	190	360	N/A	N/A
USLC-81	2200 West	Culvert	170	310	175	345	180	350	20'X7.75' Box	750
USLC-82	1440 South	Culvert	170	310	175	345	180	350	23'X8.5' Box	1020
USLC-83	Redwood Rd.	Bridge	170	310	95	265	95	265	20' Wide	1180
USLC-84	Rock Hollow Dr.	Culvert	170	310	20	190	30	200	20'X7' Box	650
USLC-85	Trail Bridge (15100 South)	Bridge	170	310	20	190	30	200	60' Wide Footbridge	2510
USLC-86	Iron Horse Blvd.	Culvert	170	310	20	190	30	200	20'X7' Box	650
USLC-87	Trail Bridge (15600 South)	Bridge	170	310	25	195	30	200	45' Footbridge	ot a restrictio
USLC-88	Porter Rockwell Blvd.	Culvert	170	310	25	195	30	200	Under Construction	
USLC-89	Trail Bridge (16100 South)	Bridge	170	310	10	180	30	200	48' Footbridge	ot a restrictio
USLC-90	Access Bridge (17000 South)	Bridge	170	310	10	180	10	180	23.5' Bridge	ot a restrictio

1 = Storm Flow Only

2 = Includes both Irrigation and Storm Flow

Hollows

Rose Creek

Midas Creek

Bingham Creek

Barney's Creek

5400 South

4700 South

8000 West

End of Model

South Jordan Canal Flow Rates

ID	Structure Location	Structure Type	Approximate Peak Summer Irrigation Flow (cfs)	2002 SWCCS Future Build-Out 100-Yr Design Storm Flows (cfs)	Existing 100-Yr Design Storm Flow Only (cfs)	Existing 100-Yr Design Storm Combined Flow (cfs)	Future 100-Yr Design Storm Flow Only	Future 100 -yr Design Storm Combined	2002 Structure Size	Existing Structure Size (Span ft x Rise ft)	Estimated Culvert Capacity (cfs)
SJC-001	3900 West	Bridge	30	30	5	35	5	35		8' x 5'	130
SJC-002	Bangerter Highway (3800 West)	Culvert	30	30	5	35	5	35	5.5 ' x 6' W	6' x 4'	65
SJC-003	3600 West	Bridge	30	30	5	35	5	35	6' W	5' x2.5'	35
SJC-004	4700 South	Bridge	30	30	5	35	5	35	18.25' W	20' x 5'	425
SJC-005	4700 South - Dumpout	Dumpout	30	55	5	35	5	35		12' Weir	135
SJC-006	3250 West	Bridge	30	55	5	35	5	35	8' W	8' x 3'	65
SJC-007	3200 West	Bridge	30	55	5	35	5	35	4.25' x 12' W	12' x 4'	165
SJC-008	3145 West	Bridge	30	55	5	35	5	35		10' x 2.5'	70
SJC-009	3100 West	Bridge	30	55	5	35	5	35		11' x 3'	100
SJC-010	4960 South	Bridge	30	55	5	35	5	35		12' x 3'	115
SJC-011	4965 South	Bridge	30	55	5	35	5	35		10' x 4'	80
SJC-012	4970 South	Bridge	30	55	5	35	5	35		8' x 3.3'	75
SJC-013	4980 South	Bridge	30	55	5	35	5	35		10' x 3.5'	110
SJC-014	W Bigarade Ln.	Bridge	30	55	5	35	5	35	2.3' x 12' W?	12' x 2.5'	85
SJC-015	5080 South	Bridge	30	55	5	35	5	35	2.3' x 12' W?	13.5' x 4'	190
SJC-016	5090 South	Bridge	30	55	5	35	5	35		10' x 3.3'	60
SJC-017	5100 South	Bridge	30	55	5	35	5	35		12' x 2.5'	50
SJC-018	5245 South	Bridge	30	55	5	35	5	35		13' x 4'	115
SJC-019	5300 South	Bridge	30	55	5	35	5	35		12.6' x 4'	110
SJC-020	Jordan Canal Rd./ 5319 South	Bridge	30	55	5	35	5	35	13' W	11' x 4'	90
SJC-021	5350 South	Bridge	30	55	5	35	5	35		10' x 5'	110
SJC-022	2700 West / 5400 South	Culvert	30	55	5	35	5	35	4.5' X 10'	10' x 4'	135
SJC-023	By Marsha Brooks Circle	Bridge	30	55	5	35	5	35		17.41' x 5'	225
SJC-024	5400 South - Dumpout	Dumpout	30	115	40	70	40	70		10' Weir	175
SJC-025	5505 S 2750 West	Bridge	30	115	40	70	40	70		11' x 2.5'	105
SJC-026	5629 S 2750 West	Bridge	30	115	40	70	40	70		11' x 4'	150
SJC-027	5644 S 2005 West	Bridge	30	115	40	70	40	70		11' x 4'	90
SJC-028	5646 S 2005 West	Bridge	30	115	40	70	40	70		11' x 4'	150
SJC-029	5650 S 2005 West	Bridge	30	115	40	70	40	70		12' x 4'	165
SJC-030	5691 S 2005 West	Bridge	30	115	40	70	40	70		15.5' x 3'	115
SJC-031	5723 S Jordan Canal Road	Bridge	30	115	40	70	40	70		20' x 4'	190
SJC-032	Player Ridge Cir.	Bridge	30	115	40	70	40	70		10.7' x 3.3'	110
SJC-033	Angle Ln.	Bridge	30	115	40	70	40	70		12' x 2.5'	85
SJC-034	5824 S 2005 West	Bridge	30	115	40	70	40	70		12' x 2.5'	85
SJC-035	5834 S 2005 West	Bridge	30	115	40	70	40	70		13' x 2.5'	95
SJC-036	5860 S 2005 West	Bridge	30	115	40	70	40	70		16' x 3'	95
SJC-037	5873 S 2005 West	Bridge	30	115	40	70	40	70		17.2' x 4'	160
SJC-038	Farm Ridge Rd.	Bridge	30	115	40	70	40	70		13.5' x 3.5'	160
SJC-039	5924 S 2005 West	Bridge	30	115	40	70	40	70		13' x 3.2'	135
SJC-040	5947 S 2005 West	Bridge	30	115	40	70	40	70		12.5' x 3.3'	75
SJC-041	5976 S 2005 West	Bridge	30	115	40	70	40	70		13' x 3.7'	100
SJC-042	Canal Ridge	Bridge	30	115	40	70	40	70		12' x 3'	70
SJC-043	5990 S 2005 West	Bridge	30	115	40	70	40	70		12' x 3.1'	115
SJC-044	5992 S 2005 West	Bridge	30	115	40	70	40	70		13' x 3'	75
SJC-045	6024 S Jordan Canal Road	Bridge	30	115	40	70	40	70		12' x 4.3'	115
SJC-046	6026 S Jordan Canal Road	Bridge	30	115	40	70	40	70		11' x 3.3'	70
SJC-047	6028 S Jordan Canal Road	Bridge	30	115	40	70	40	70		11' x 4.7'	115
SJC-048	6030 S Jordan Canal Road	Culvert	30	115	40	70	40	70		13' x 6'	320
SJC-049	6032 S Jordan Canal Road	Bridge	30	115	40	70	40	70		14' x 4.7'	155
SJC-050	Labrum Park Ln./ 6150 South	Bridge	30	115	40	70	40	70		14' x 6'	220
SJC-051	Jordan Canal Road	Bridge	30	115	40	70	40	70		12' x 5'	140
SJC-052	6000 South	Bridge	30	115	40	70	40	70		12.6' x 5'	150
SJC-053	Bennion Boulevard / 6200 South	Culvert	30	115	40	70	40	70	4.65' X 13'	12' x 4.5'	220

SJC-054	6296 South	Culvert	30	115	40	70	40	70	-	12' x 6'	300
SJC-055	Redwood Road	Bridge	30	115	45	75	45	75	12' W	12' x 3'	115
SJC-056	Redwood Road/ 6670 South	Bridge	30	115	45	75	45	75	15' W	14' x 4.5'	245
SJC-057	1780 W 6670 South	Bridge	30	115	45	75	45	75		12.3' x 3.5'	90
SJC-058	1830 W 6670 South	Bridge	30	115	45	75	45	75		13.2' x 4'	115
SJC-059	1895 W 6670 South	Bridge	30	115	45	75	45	75		12.3' x 4'	105
SJC-060	1905 W 6670 South	Bridge	30	115	45	75	45	75		13' x 4'	115
SJC-061	1900 West	Bridge	30	115	45	75	45	75	13' W	13' x 4.5'	135
SJC-062	by 24993	Bridge	30	115	45	75	45	75		10' x 3'	90
SJC-063	2200 West	Bridge	30	115	45	75	45	75	20' W	16' x 3.5'	120
SJC-064	7000 South	Culvert	30	115	0	30	0	30	15' W	15' x 4'	225
SJC-065	7000 South - Dumpout	Dumpout	30	115	25	55	25	55		16' Weir	360
SJC-066	7110 South	Bridge	30	115	25	55	25	55		16' x 4'	145
SJC-067	7200 South	Bridge	30	115	25	55	25	55		15' x 4'	135
SJC-068	Harvest Ln./ 7305 South	Bridge	30	115	25	55	25	55		18' x 3.5'	140
SJC-069	7310 South	Bridge	30	115	25	55	25	55		14' x 3.5'	100
SJC-070	7360 South	Bridge	30	115	25	55	25	55		18' x 3.3'	110
SJC-071	7390 South	Bridge	30	115	25	55	25	55		15' x 3'	90
SJC-072	7395 South	Bridge	30	115	25	55	25	55		15' x 3'	90
SJC-073	7400 South	Bridge	30	115	25	55	25	55		15' x 3 '	90
SJC-074	7410 South	Bridge	30	115	25	55	25	55		15' x 3.5'	110
SJC-075	7500 South	Culvert	30	115	25	55	25	55		16' Wide Arch	110
SJC-076	7510 South	Bridge	30	115	25	55	25	55		13.5' x 3.5'	80
SJC-077	7560 South	Bridge	30	115	25	55	25	55		14' x 3.5'	100
SJC-078	By 7560 South	Bridge	30	115	25	55	25	55		16' x 3.7 '	130
SJC-079	7600 South	Bridge	30	0	5	35	5	35		18' x 4'	170
SJC-080	7640 South	Bridge	30	0	5	35	5	35		14' x 4'	125
SJC-081	7680 South	Bridge	30	0	5	35	5	35	18' W	18' x 3.5'	140
SJC-082	7800 South - Dumpout	Dumpout	30	135	5	35	5	35		28' Weir	1030
SJC-083	7800 South	Bridge	30	135	0	30	0	30	16'W	16' x 3.5'	120
SJC-084	Bueno Vista Dr. / 8070 South	Bridge	30	135	20	50	20	50	19' W	18' x 4'	170
SJC-085	8120 South	Bridge	30	135	20	50	20	50	14' W	14' x 4'	125
SJC-086	Pauline Way / 8190 South	Bridge	30	135	20	50	20	50	14' W	14' x 4'	125
SJC-087	UTA Trax Red Line	Culvert	30	0	0	30	0	30		11' x 4'	155
SJC-088	Sugar Factory Rd./ 2200 West	Culvert	30	0	0	30	0	30		11' x 4'	155
SJC-089	Bingham Creek - Dumpout	Dumpout	35	100	150	185	155	190		14' Weir	145
SJC-090	Gardner Ln./ 8660 South	Bridge	35	100	85	120	105	140	17' W	17' x 4'	160
SJC-091	9000 South	Bridge	35	100	70	105	100	135	20' W	20' x 4'	190
SJC-092	Willow Cove Apartments	Bridge	35	100	70	105	85	120		18' x 4.5'	200
SJC-093	Redwood Rd. / Brigadoon Park Dr.	Bridge	35	100	70	105	85	120	18' W	18' x 5'	230
SJC-094	Kodiak Creek Ct. / 9635 South	Bridge	35	100	85	120	110	145	14' W	15' x 5'	185
SJC-095	9800 South	Bridge	35	100	85	120	110	145		13' x 5'	250
SJC-096	Reunion Avenue/ 10000 South	Bridge	35	100	85	120	110	145	14' W	14' x 5'	170
SJC-097	10075 South - Wood Bridge	Bridge	35	100	85	120	110	145		19' x 4'	180
SJC-098	Wheadon Glenn Cv.	Bridge	35	100	85	120	110	145		12' x 5'	140
SJC-099	1300 West	Bridge	35	100	85	120	110	145	7.5' x 17' W	16' x 6 1/2' CMP to 12' x 4'	260
SJC-100	Holt Farm Lane	Bridge	35	100	85	120	110	145		14' x 6'	220
SJC-101	1299 West	Bridge	35	100	85	120	110	145		14' x 8.5'	345
SJC-102	By 10400 South	Bridge	35	100	85	120	110	145	7 X 14.76	11' x 5'	125
SJC-103	South Jordan Parkway	Bridge	35	0	0	35	0	35		14' x 6'	220
SJC-104	10400 South - Dumpout	Dumpout	35	10	35	70	35	70		10' Weir	410
SJC-105	1300 West	Culvert	35	10	35	70	35	70	16' W	16' x 6.4'	475
SJC-106	10775 South	Culvert	35	10	5	40	5	40		14' x 6'	365
SJC-107	11025 South - Foot Bridge	Bridge	35	10	5	40	5	40		19' x 6'	320
SJC-108	11400 South	Culvert	35	0	0	35	0	35	18' W	18' x 4'	280
SJC-109	Midas Creek - Dumpout	Dumpout	45	65	90	135	90	135		15' Weir	170
SJC-110	12040 South	Culvert	45	65	105	150	105	150		14' x 6'	365
SJC-111	12600 South	Bridge	45	65	40	85	40	85	18' W	16' x 6'	260

Section 3: Canals and Misc. Creeks

SJC-112	12800 South - Control Structure	Control Structure	45	65	40	85	40	85		N/A	N/A
SJC-113	12800 South	Bridge	45	270	40	85	40	85	17' W	17' X 4'	160
SJC-114	13034 South	Bridge	45	270	35	80	35	80		17' X 4'	160
SJC-115	13200 South	Bridge	45	270	35	80	35	80	17' W	17' X 7'	345
SJC-116	1300 West	Bridge	45	0	0	45	0	45	20' W	20' X 5.5'	305
SJC-117	1300 West	Bridge	45	0	0	45	0	45	18' W	18' X 5'	235
SJC-118	Bangerter Highway (13800 South)	Bridge	45	0	0	45	0	45	7.4' x 11.2 W	11' X 6.5'	175
SJC-119	13970 South / Marketview Dr.	Culvert	45	0	0	45	0	45		13' X 6'	330
SJC-120	Rose Creek - Dumpout	Dumpout	80	70	75	155	75	155		15' Weir	290
SJC-121	14400 South	Culvert	80	70	75	155	75	155	16' W	14' X 6.5'	405
SJC-122	By 14600 South	Bridge	80	70	75	155	75	155		18' X 4.4'	180
SJC-123	14600 South	Culvert	80	70	75	155	75	155		12' X 6'	300
SJC-124	14725 South - 1690 West	Bridge	80	70	75	155	75	155		18' X 6'	300
SJC-125	14775 South - 1690 West	Bridge	80	70	75	155	75	155		17' X 6'	280
SJC-126	14825 South - 1690 West	Bridge	80	70	75	155	75	155		18' X 4'	170
SJC-127	15000 South - 1690 West	Bridge	80	70	75	155	75	155		20' X 4'	190
SJC-128	15025 South - 1690 West	Bridge	80	70	75	155	75	155		16.5' X 5.5'	240
SJC-129	Rock Hollow Dr.	Culvert	80	70	75	155	55	135		14' X 6'	365
SJC-130	By Cowboy Circle	Bridge	80	70	75	155	55	135		22.5' X 4'	220
SJC-131	Iron Horse Boulevard	Culvert	80	70	75	155	55	135		14' X 6'	365
SJC-132	Broad Crested Weir	Control Structure	80	0	0	80	0	80		N/A	N/A
SJC-133	Railroad	Culvert	80	0	0	80	0	80	Semi Circle 12' RISE (41/9)	18' X 13'	800

DS of Bingham
Bingham Creek
Midas Creek
Rose Creek

Section 3: Canals and Misc. Creeks

North Jordan Canal Flow Rates

ID	Structure Location	2002 SWCCS Future Build-Out 100-yr Design Storm Flow (cfs)	2015 NJC Study Storm Flow (cfs)	Existing 100-Year Design Storm Flow Only (cfs)	Future 100-y Design Storm Flow Only (cfs)	Future 100-yr Design Storm Combined Flow (cfs)	Existing Culvert Size	Estimated Structure Capacity (cfs)
NJC-01	3615 South - Access Bridge			45	45	92	5' Pipe	90
NJC-02	3800 South			35	35	82	3.5' Pipe	90
NJC-03	3800 South - Drain	55	9	35	35	82	Gate Only	N/A
NJC-04	3300 West - Access Bridge	55		45	45	92	11.5' Span	120
NJC-05	3200 West	55		35	35	82	12' Span	135
NJC-06	3200 West - Drain	55	14	45	45	92	Gate Only	N/A
NJC-07	3000 West - Drain	55	14	35	35	82	Gate Only	N/A
NJC-08	Market Street	55		20	20	67	28' Span	190
NJC-09	4000 South - Drain	55	17	20	20	67	8' Weir	125
NJC-10	2700 West -Dumpout	55	0	60	65	112	7.4' Weir	125
NJC-11	Constitution Blvd and 4100 South	55		15	20	67	18' Span	330
NJC-12	Farthingale Ln - Access Bridge	55		15	20	67	20' Span	390
NJC-13	Dutch Draw	55		0	0	47	22' Span	515
NJC-14	4250 South	55		0	0	47	9' X 6' Box	220
NJC-15	I-215 - Dumpout	55	26	85	90	137	4.6' Weir	125
NJC-16	I-215 (West)	55		90	100	147	18' Span	360
NJC-17	Marvinwood Dr.	55		90	100	147	12.8' X 6.2' Arch	140
NJC-18	2200 West	55		90	100	147	15' Span	315
NJC-19	2150 West -Access Bridge	55		40	45	92	28' Span	210
NJC-20	2100 West - Access Bridge	55		40	45	92	30' Span	405
NJC-21	1775 West - Pedestrian Bridge	55		40	45	92	28.5' Span	215
NJC-22	Redwood Rd.	55		40	45	92	17' Span	300
NJC-23	Cemetery Rd.	55		40	45	92	18' Span	180
NJC-24	Conifer Way	55		40	45	92	19' Span	430
NJC-25	4700 South	55		40	45	92	24' Span	270
NJC-26	4700 South - Dumpout	140	35	50	50	102	27' Weir	130
NJC-27	4750 South - Access Bridge	140		55	55	107	28' Span	470
NJC-28	Murray Taylorsville Rd.	140		40	40	92	13.5' Span	280
NJC-29	5025 South - Access Bridge	140		40	40	92	50' Span	Not a Restriction
NJC-30	Morning Sun Dr.	140		40	40	92	54' Span	Not a Restriction
NJC-31	Morning Vista Dr.	140		60	60	112	21' X 8' Arch	450
NJC-32	5225 South - Access Bridge	140		60	60	112	22' Span	520
NJC-33	5400 South	0		0	0	52	18' X 6' Box	495
NJC-34	5400 South - Dumpout	140	12	85	100	152	N/A	N/A
NJC-35	1300 West	140		105	120	172	12' X 6' Box	315
NJC-36	5600 South - Dumpout	140	142	95	125	177	16' Weir	130
NJC-37	5800 South	140		95	125	177	21' Span	305
NJC-38	I-215 (South)	140		50	65	117	32' Span	420
NJC-39	5910 South - Access Bridge	140		35	55	107	24' Span	360
NJC-40	Lock Hawkins Dr.	140		35	55	107	46' Span	Not a Restriction
NJC-41	Bennion Blvd.	140		35	55	107	19.4' X 6.2' Arch	340
NJC-42	6375 South - Access Bridge	140		20	30	82	25' Span	205
NJC-43	Murray Bluffs Ct.	0		0	0	52	9' X 5' Box	195

NJC-44	Winchester St.	0		0	0	52	25' X 4' Box	510
NJC-45	6500 South - Dumpout	70	18	35	35	87	15' Weir	130
NJC-46	7000 South	70		50	50	102	15.7' Span	520
NJC-47	Jordan River Parkway Trail	0		0	0	52	37' Span	Not a Restriction
NJC-48	7200 South - Dumpout	220	105	35	40	92	19' Weir	150
NJC-49	Valley Water Access	220		40	45	97	20' Span	545
NJC-50	1125 West - Pedestrian Bridge	70		0	0	52	13.3' Span	280
NJC-51	7800 South	70		0	0	52	20' Span	380
NJC-52	7800 South - Dumpout	15	34	85	85	145	N/A	175
NJC-53	UTA Trax Red Line	15		85	85	145	20' X 7.7' Arch	400
NJC-54	7900 South - Access Bridge	15		85	85	145	22' Span	245
NJC-55	8050 South	15		100	100	160	35.5' Span	350
NJC-56	1100 West	15		100	100	160	34' Span	385
NJC-57	8200 South	15		100	100	160	38' Span	590
NJC-58	8250 South - Access Bridge	15		100	100	160	37' Span	800
NJC-59	8600 South	15		100	100	160	36' Span	Not a Restriction
NJC-60	9000 South	15		130	130	190	20' Span	745
NJC-61	Golf Cart Path (9025 South)	15		130	130	190	38' Span	Not a Restriction

APPENDIX H

Detailed Cost Estimates

Bingham Creek Culvert Project Cost Estimates

			Culvert Calculations								
#	Project Improvement	Base Cost	Length	Unit Cost/LF	Headwall/Wingwall	Additional Costs	MOB	Total Construction	Engineering/Legal/Admin	Contingency	Culvert Cost
1	Raise Banks between North Jordan Canal and Jordan River (Paid by Developer)	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	Install curb walls along both banks upstream of North Jordan Canal Crossing	$ 122,000.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	BC-02: Clean sediment out from Gravel Lane / 8050 South Culvert (No Cost Estimate Provided)	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4	Raise banks between BC-03 & BC-02	$ 138,000.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
5	BC-03: Replace existing pipe culverts with a full width bridge and raise right bank	$ 590,000.00	25	$ 2,300.00	$ 4,600.00	$ 300,000.00	$ 36,210.00	$ 398,310.00	$ 59,746.50	$ 91,611.30	$ 549,667.80
6	BC-05: Replace existing pipe culvert with a 6' X 10' box culvert	$ 626,000.00	110	$ 800.00	$ 24,150.00	$ 300,000.00	$ 41,215.00	$ 453,365.00	$ 68,004.75	$ 104,273.95	$ 625,643.70
7	Raise banks between 1560 West and 1500 West	$ 71,000.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
8	Rase bank by 1620 West cul-de-sac	$ 45,000.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	BC-13: Raise banks upstream to offset increase head	$ 113,000.00	90	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
10	Rase bank by Apartemnt complex	$ 31,000.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	Construct curb wall by 3200 West and 8750 South	$ 40,000.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
12	Raise bank upstream of 3400 West	$ 32,000.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
13	BC-29: Replace existing pipe culvert with a new 6' RCP culvert	$ 685,000.00	215	$ 2,000.00	$ 20,700.00	$ -	$ 45,070.00	$ 495,770.00	$ 74,365.50	$ 114,027.10	$ 684,162.60

Bingham Creek Embankment Project Cost Estimates

		Dirt Embankment Calculations														
Project Improvement	Base Cost	Fill (CY)	Cost	Mob & Additional Costs	Total Construction	Engineering/Legal/Admin	Contingency	Total Project Cost	Length	Average Height	Top Width	M:1	X-Sec Area	Volume	Notes
Raise Banks between North Jordan Canal and Jordan River (Paid by Developer)	$ -	440	$30,800.00	$ 20,000.00	$ 50,800.00	$ 7,620.00	$11,684.00	$ 70,104.00	650	2	3	3	18	433.3333333	
Install curb walls along both banks upstream of North Jordan Canal Crossing	$ 122,000.00	970	$67,900.00	$ 20,000.00	$ 87,900.00	$ 13,185.00	$20,217.00	$ 121,302.00	1450	2	3	3	18	966.6666667	
BC-02: Clean sediment out from Gravel Lane / 8050 South Culvert (No Cost Estimate Provided)	$ -	0	$ -	$ -	$ -	$ -	$ -	$ -			3	3	0	0	
Raise banks between BC-03 & BC-02	$ 138,000.00	1140	$79,800.00	$ 20,000.00	$ 99,800.00	$ 14,970.00	$22,954.00	$ 137,724.00	850	3	3	3	36	1133.333333	
BC-03: Replace existing pipe culverts with a full width bridge and raise right bank	$ 590,000.00	130	$ 9,100.00	$ 20,000.00	$ 29,100.00	$ 4,365.00	$ 6,693.00	$ 40,158.00	100	3.5	3	2	35	129.6296296	
BC-05: Replace existing pipe culvert with a 6' X 10' box culvert	$ 626,000.00	0	$ -	$ -	$ -	$ -	$ -	$ -			3	3	0	0	
Raise banks between 1560 West and 1500 West	$ 71,000.00	440	$30,800.00	$ 20,000.00	$ 50,800.00	$ 7,620.00	$11,684.00	$ 70,104.00	250	3.5	3	3	47.25	437.5	
Rase bank by 1620 West cul-de-sac	$ 45,000.00	170	$11,900.00	$ 20,000.00	$ 31,900.00	$ 4,785.00	$ 7,337.00	$ 44,022.00	300	1.75	3	3	14.4375	160.4166667	
BC-13: Raise banks upstream to offset increase head	$ 113,000.00	880	$61,600.00	$ 20,000.00	$ 81,600.00	$ 12,240.00	$18,768.00	$ 112,608.00	500	3.5	3	3	47.25	875	
Rase bank by Apartemnt complex	$ 31,000.00	30	$ 2,100.00	$ 20,000.00	$ 22,100.00	$ 3,315.00	$ 5,083.00	$ 30,498.00	50	1.5	3	3	11.25	20.83333333	
Construct curb wall by 3200 West and 8750 South	$ 40,000.00	0	$ -	$ -	$ -	$ -	$ -	$ -			3	3	0	0	
Raise bank upstream of 3400 West	$ 32,000.00	0	$ -	$ -	$ -	$ -	$ -	$ -			3	3	0	0	
BC-29: Replace existing pipe culvert with a new 6' RCP culvert	$ 685,000.00	0	$ -	$ -	$ -	$ -	$ -	$ -			3	3	0	0	

Section 3: Canals and Misc. Creeks

Bingham Creek Concrete Curb Project Cost Estimates

#	Project Improvement	Base Cost	Concrete Curb Wall Calculations (mimic the fill)					Mob & Additional Costs	Total Construction	Engineering/Legal/Admin	Contingency	Total Project Cost
			Length	Average Height	Average Thickness	Volume	Cost					
1	Raise Banks between North Jordan Canal and Jordan River (Paid by Developer)	$ -				0	$ -	$ -	$ -	$ -	$ -	$ -
2	Install curb walls along both banks upstream of North Jordan Canal Crossing	$ 122,000.00		2	1	0	$ -	$ -	$ -	$ -	$ -	$ -
3	BC-02: Clean sediment out from Gravel Lane / 8050 South Culvert (No Cost Estimate Provided)	$ -				0	$ -	$ -	$ -	$ -	$ -	$ -
4	Raise banks between BC-03 & BC-02	$ 138,000.00				0	$ -	$ -	$ -	$ -	$ -	$ -
5	BC-03: Replace existing pipe culverts with a full width bridge and raise right bank	$ 590,000.00				0	$ -	$ -	$ -	$ -	$ -	$ -
6	BC-05: Replace existing pipe culvert with a 6' X 10' box culvert	$ 626,000.00				0	$ -	$ -	$ -	$ -	$ -	$ -
7	Raise banks between 1560 West and 1500 West	$ 71,000.00				0	$ -	$ -	$ -	$ -	$ -	$ -
8	Rase bank by 1620 West cul-de-sac	$ 45,000.00				0	$ -	$ -	$ -	$ -	$ -	$ -
9	BC-13: Raise banks upstream to offset increase head	$ 113,000.00				0	$ -	$ -	$ -	$ -	$ -	$ -
10	Rase bank by Apartemnt complex	$ 31,000.00				0	$ -	$ -	$ -	$ -	$ -	$ -
11	Construct curb wall by 3200 West and 8750 South	$ 40,000.00	300	1.5	1	16.66666667	$8,333.33	$ 20,000.00	$ 28,333.33	$ 4,250.00	$ 6,516.67	$ 39,100.00
12	Raise bank upstream of 3400 West	$ 32,000.00	100	1.5	1	5.555555556	$2,777.78	$ 20,000.00	$ 22,777.78	$ 3,416.67	$ 5,238.89	$ 31,433.33
13	BC-29: Replace existing pipe culvert with a new 6' RCP culvert	$ 685,000.00				0	$ -	$ -	$ -	$ -	$ -	$ -

Section 3: Canals and Misc. Creeks

Barneys Creek Does not Include Detailed Cost Estimates. A recommended alternative has not been selected at this time.

Table B-1
Estimated Capital Improvement Costs

#	Project Improvement	Base Cost for Flooding
1	Replace existing Welby Jacobs canal culvert crossing	$ 310,000.00
2	Pipeline project; Construct new or parrallel pipeline from Redwood Rd to Crooked Sky Dr.	$ 1,170,000.00
3	Construct manhole that can be pressurized or bolt down existing manhole	$ -
4	Pipeline project; Construct new or parallel pipeline from Crooked Sky Dr. to Overflow Pond	$ 1,420,000.00
5	Construct new overflow pond outlet pipe	$ 530,000.00
6	Construct improved inlet to increase capacity of pipeline	$ 70,000.00
7	Construct a new culvert to convey storm water underneath USLC	$ 350,000.00
8	Construct a new culvert to convey storm water underneath SJC	$ 390,000.00
9	Construct overflow/dumpout to convey storm water to Wood Hollow	$ 210,000.00
10	Bank Deficiency Btw Porter Rockwell Blvd & 15370 South Street	$ 29,000.00
11	Construct overflow/dumpout to convey storm water to Wood Hollow South	$ 210,000.00
12	Construct overflow/dumpout to convey storm water to Wood Hollow	$ 210,000.00
13	Construct overflow/dumpout to convey storm water to Wood Hollow South	$ 210,000.00

Table B-2
Culvert Replacement Project Calculations

UDOT Road (Y/N)	Proposed Culvert Size	Length/Qt	Unit Cost	Mob	Admin/Enginerring/Legal Fees/Contingency	Cost
N	5.5' RCP	60	$ 400.00	$ 200,000.00	$ 89,600.00	$ 313,600.00
N						$ 1,167,000.00
N						$ -
N		0			$ -	$ 1,420,000.00
N	6' RCP	450	$ 400.00	$ 200,000.00	$ 152,000.00	$ 532,000.00
N		1	$ -	$ 50,000.00	$ 20,000.00	$ 70,000.00
N	6' RCP	130	$ 400.00	$ 200,000.00	$ 100,800.00	$ 352,800.00
N	6' RCP	200	$ 400.00	$ 200,000.00	$ 112,000.00	$ 392,000.00
N		1	$ -	$ 150,000.00	$ 60,000.00	$ 210,000.00
N					$ -	
N		1	$ -	$ 150,000.00	$ 60,000.00	$ 210,000.00
N		1	$ -	$ 150,000.00	$ 60,000.00	$ 210,000.00
N		1	$ -	$ 150,000.00	$ 60,000.00	$ 210,000.00

Table B-3
Bank Improvement Project Calculations

Unit Cost Used for Fill: $ 70.00 /cu yd

Fill (cu yd)	Unit Cost	Mob & Design	Admin/Enginerring/Legal Feels/Contingency	Cost
0	$ 70.00	$ -	$ -	$ -
0	$ 70.00	$ -	$ -	$ -
0	$ 70.00	$ -	$ -	$ -
0	$ 70.00	$ -	$ -	$ -
0	$ 70.00	$ -	$ -	$ -
0	$ 70.00	$ -	$ -	$ -
0	$ 70.00	$ -	$ -	$ -
0	$ 70.00	$ -	$ -	$ -
0	$ 70.00	$ -	$ -	$ -
120	$ 70.00	$ 20,000.00	$ 336.00	$ 28,736.00
0	$ 70.00	$ -	$ -	$ -
0	$ 70.00	$ -	$ -	$ -
0	$ 70.00	$ -	$ -	$ -

Table B-4
Bank Improvement Project Calculations Continued

Length	Height	Top Width	M:1	X-Sec Area	Volume (cu ft)	Volume (cu yd)	Notes
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
				0	0	0	
550	0.5	10	2	5.5	3025	112	
				0	0	0	
				0	0	0	
				0	0	0	

Beef Hollow does not have any recommended projects, so there is no detailed cost estimate.

Utah Lake Distributing Canal Embankment Project Cost Estimates

				Bank Capacity Improvement Costs					
Project #	**Project Improvement Description**	**Total Project Cost**	**Fill (cu yd)**	**Fill Cost**	**Mob & Design**	**Total Construction**	**neering/Legal/Ac**	**Contingency**	**Total Bank Cost**
1	Raise 556 LF of the Right Bank from about 12150 South to Brinley Peak Ln	$ 33,000.00	46	$ 3,220.00	$ 20,000.00	$ 23,220.00	$ 3,483.00	$ 5,340.60	$ 32,044.00
2	Raise 154 LF of the Right Bank near Appoximatley 195 feet Upstream of Rose Creek Dumpout	$ 29,000.00	5	$ 350.00	$ 20,000.00	$ 20,350.00	$ 3,052.50	$ 4,680.50	$ 28,083.00
3	Raise 1,678 LF of the Right Bank from about 13880 South to about 14100 South	$ 88,000.00	615	$ 43,050.00	$ 20,000.00	$ 63,050.00	$ 9,457.50	$ 14,501.50	$ 87,009.00
4	Raise 1,935 LF of the Right Bank from about 14450 South to about 14660 South	$ 151,000.00	1274	$ 89,180.00	$ 20,000.00	$ 109,180.00	$ 16,377.00	$ 25,111.40	$ 150,669.00
5	Raise 389 LF of the Right Bank from about 14670 South to about 14750 South	$ 34,000.00	63	$ 4,410.00	$ 20,000.00	$ 24,410.00	$ 3,661.50	$ 5,614.30	$ 33,686.00
6	Raise 451 LF of the Right Bank from about 14800 South to about 14900 South	$ 41,000.00	130	$ 9,100.00	$ 20,000.00	$ 29,100.00	$ 4,365.00	$ 6,693.00	$ 40,158.00
7	Raise 45 LF of the Left Bank at ULDC-38	$ 31,000.00	27	$ 1,890.00	$ 20,000.00	$ 21,890.00	$ 3,283.50	$ 5,034.70	$ 30,209.00
8	Raise 870 LF of the Right Bank from aout 15000 South to 15100 South	$ 67,000.00	399	$ 27,930.00	$ 20,000.00	$ 47,930.00	$ 7,189.50	$ 11,023.90	$ 66,144.00
9	Raise 43 LF of the Left Bank at about 15100 South	$ 28,000.00	1	$ 70.00	$ 20,000.00	$ 20,070.00	$ 3,010.50	$ 4,616.10	$ 27,697.00
10	Raise 58 LF of the Right Bank Upstream of ULDC-40	$ 28,000.00	3	$ 210.00	$ 20,000.00	$ 20,210.00	$ 3,031.50	$ 4,648.30	$ 27,890.00
11	Raise 102 LF of the Right Bank Dowsntream of ULDC-40	$ 34,000.00	57	$ 3,990.00	$ 20,000.00	$ 23,990.00	$ 3,598.50	$ 5,517.70	$ 33,107.00
12	Raise 528 LF of the Right Bank Between 15700 South and 15900South	$ 33,000.00	52	$ 3,640.00	$ 20,000.00	$ 23,640.00	$ 3,546.00	$ 5,437.20	$ 32,624.00

Utah & Salt Lake Canal Embankment Project Cost Estimates

				Bank Capacity Improvement Costs					
Project #	**Project Improvement Description**	**Total Project Cost**	**Fill (cu yd)**	**Fill Cost**	**Mob & Design**	**Total Construction**	**Engineering/Legal/Admin**	**Contingency**	**Total Bank Cost**
1	Raise 70 LF of the Right Bank at about !	$ 29,000.00	6	$ 420.00	$ 20,000.00	$ 20,420.00	$ 3,063.00	$ 4,696.60	$ 28,180.00
2	Raise 80 LF of the Right Bank upstream	$ 28,000.00	3	$ 210.00	$ 20,000.00	$ 20,210.00	$ 3,031.50	$ 4,648.30	$ 27,890.00
3	Raise 1,000 LF of the Left Bank from 66	$ 64,000.00	367	$ 25,690.00	$ 20,000.00	$ 45,690.00	$ 6,853.50	$ 10,508.70	$ 63,053.00
4	Raise 600 LF of Left Bank from 9870 So	$ 66,000.00	394	$ 27,580.00	$ 20,000.00	$ 47,580.00	$ 7,137.00	$ 10,943.40	$ 65,661.00

South Jordan Canal Embankment Project Cost Estimates

			Bank Capacity Improvement Costs						
Project #	**Project Improvement Description**	**Total Project Cost**	**Fill (cu yd)**	**Fill Cost**	**Mob & Design**	**otal Constructio**	**Engineering/Leg**	**Contingency**	**Total Bank Cost**
1	Raise 190 LF of the right bank at approximately 6700 South 2200 West	$ 47,000.00	176	$ 12,320.00	$ 20,000.00	$ 32,320.00	$ 4,848.00	$ 9,292.00	$ 46,460.00
2	Raise a total of 2,040 LF of bank between 8350 South and Gardner Ln.	$ 275,000.00	2444	$ 171,080.00	$ 20,000.00	$ 191,080.00	$ 28,662.00	$ 54,935.50	$ 274,678.00
3	Raise 1,830 LF of the left bank between 8400 South and 9000 South	$ 250,000.00	2193	$ 153,510.00	$ 20,000.00	$ 173,510.00	$ 26,026.50	$ 49,884.13	$ 249,421.00
4	Raise 80 LF of the right bank immedeatly downstream of 9000 South	$ 39,000.00	96	$ 6,720.00	$ 20,000.00	$ 26,720.00	$ 4,008.00	$ 7,682.00	$ 38,410.00
5	Raise 370 LF of the right bank upstream of 9000 South	$ 74,000.00	444	$ 31,080.00	$ 20,000.00	$ 51,080.00	$ 7,662.00	$ 14,685.50	$ 73,428.00
6	Raise 530 LF of the right bank behind Schmidt's Greenhouse	$ 93,000.00	635	$ 44,450.00	$ 20,000.00	$ 64,450.00	$ 9,667.50	$ 18,529.38	$ 92,647.00
7	Raise 760 LF of the right bank downstream of 9280 South	$ 121,000.00	911	$ 63,770.00	$ 20,000.00	$ 83,770.00	$ 12,565.50	$ 24,083.88	$ 120,420.00
8	Raise 770 LF of the right bank upstream of Redwood Rd.	$ 122,000.00	923	$ 64,610.00	$ 20,000.00	$ 84,610.00	$ 12,691.50	$ 24,325.38	$ 121,627.00
9	Raise 120 LF of the right bank at approximately 9450 South	$ 44,000.00	144	$ 10,080.00	$ 20,000.00	$ 30,080.00	$ 4,512.00	$ 8,648.00	$ 43,240.00
10	Raise 1,170 LF of bank between 9450 South and Hunters Creek Cir.	$ 170,000.00	1402	$ 98,140.00	$ 20,000.00	$ 118,140.00	$ 17,721.00	$ 33,965.25	$ 169,827.00
11	Raise 130 LF of right bank immedeatly downstream of Kodiak Creek Ct.	$ 45,000.00	156	$ 10,920.00	$ 20,000.00	$ 30,920.00	$ 4,638.00	$ 8,889.50	$ 44,448.00
12	Raise 50 LF of left bank immedeatly downstream of Kodiak Creek Ct.	$ 35,000.00	60	$ 4,200.00	$ 20,000.00	$ 24,200.00	$ 3,630.00	$ 6,957.50	$ 34,788.00
13	Raise 70 LF of right bank immedeatly upstream of Kodiak Creek Ct.	$ 38,000.00	84	$ 5,880.00	$ 20,000.00	$ 25,880.00	$ 3,882.00	$ 7,440.50	$ 37,203.00
14	Raise 260 LF of right bank at approximately 9700 South	$ 61,000.00	312	$ 21,840.00	$ 20,000.00	$ 41,840.00	$ 6,276.00	$ 12,029.00	$ 60,145.00
15	Raise 120 LF of left bank at approximately 9700 South	$ 44,000.00	144	$ 10,080.00	$ 20,000.00	$ 30,080.00	$ 4,512.00	$ 8,648.00	$ 43,240.00
16	Raise 260 LF of right bank immedeatly upstream of 9800 South	$ 61,000.00	312	$ 21,840.00	$ 20,000.00	$ 41,840.00	$ 6,276.00	$ 12,029.00	$ 60,145.00
17	Raise 400 LF of right bank at Marwood Park Ln.	$ 78,000.00	480	$ 33,600.00	$ 20,000.00	$ 53,600.00	$ 8,040.00	$ 15,410.00	$ 77,050.00
18	Raise 820 LF of right bank downstream of Reunion Ave.	$ 128,000.00	983	$ 68,810.00	$ 20,000.00	$ 88,810.00	$ 13,321.50	$ 25,532.88	$ 127,665.00
19	Raise 260 LF of right bank at Wheadon Glenn Cv.	$ 61,000.00	312	$ 21,840.00	$ 20,000.00	$ 41,840.00	$ 6,276.00	$ 12,029.00	$ 60,145.00
20	Raise 350 LF of right bank between Reunion Ave. and Wheadon Glenn Cv.	$ 72,000.00	420	$ 29,400.00	$ 20,000.00	$ 49,400.00	$ 7,410.00	$ 14,202.50	$ 71,013.00
21	Raise Private Bridge upstream of Wheadon Glenn Av.	$ -	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	$ -
22	Raise 80 LF of right bank upstream of 1300 South	$ 43,000.00	138	$ 9,660.00	$ 20,000.00	$ 29,660.00	$ 4,449.00	$ 8,527.25	$ 42,637.00
23	Raise an additional 90 LF of right bank upstream of 1300 South	$ 45,000.00	156	$ 10,920.00	$ 20,000.00	$ 30,920.00	$ 4,638.00	$ 8,889.50	$ 44,448.00
24	Riase 290 LF of right bank downstream of 1299 West	$ 80,000.00	500	$ 35,000.00	$ 20,000.00	$ 55,000.00	$ 8,250.00	$ 15,812.50	$ 79,063.00
25	Raise 120 LF of right bank downstream of Holt Farm Ln.	$ 50,000.00	207	$ 14,490.00	$ 20,000.00	$ 34,490.00	$ 5,173.50	$ 9,915.88	$ 49,580.00
26	Raise 360 LF of right bank at approximetly 10500 South	$ 92,000.00	621	$ 43,470.00	$ 20,000.00	$ 63,470.00	$ 9,520.50	$ 18,247.63	$ 91,239.00
27	Raise 390 LF of right bank upstream of 1300 South	$ 97,000.00	673	$ 47,110.00	$ 20,000.00	$ 67,110.00	$ 10,066.50	$ 19,294.13	$ 96,471.00
28	Raise 670 LF of right bank between Pinyon Pines Way and Arbor View Way	$ 145,000.00	1155	$ 80,850.00	$ 20,000.00	$ 100,850.00	$ 15,127.50	$ 28,994.38	$ 144,972.00
29	Raise 130 LF of right bank at approximetly 10740 South	$ 52,000.00	225	$ 15,750.00	$ 20,000.00	$ 35,750.00	$ 5,362.50	$ 10,278.13	$ 51,391.00
30	Raise 160 LF of right bank at approximetly 14850 South	$ 57,000.00	276	$ 19,320.00	$ 20,000.00	$ 39,320.00	$ 5,898.00	$ 11,304.50	$ 56,523.00
31	Raise 110 LF of right bank downstream of Rock Hollow Dr.	$ 48,000.00	190	$ 13,300.00	$ 20,000.00	$ 33,300.00	$ 4,995.00	$ 9,573.75	$ 47,869.00
32	Raise 140 LF of right bank at Bridlewood Dr.	$ 54,000.00	242	$ 16,940.00	$ 20,000.00	$ 36,940.00	$ 5,541.00	$ 10,620.25	$ 53,102.00

North Jordan Canal Embankment Project Cost Estimates

			Bank Capacity Improvement Costs						
Project #	**Project Improvement Description**	**Total Project Cost**	**Fill (cu yd)**	**Fill Cost**	**Mob & Additional Costs**	**Total Construction Cost**	**Engineering/Legal/Admin**	**Contingency**	**Total Bank Cost**
1	Raise 50 LF of right bank upstream of dumpout at 3800 South	$ 31,000.00	27	$ 1,890.00	$ 20,000.00	$ 21,890.00	$ 3,283.50	$ 5,034.70	$ 30,209.00
2	Raise 1600 LF of both banks upstream of 3200 West	$ 219,000.00	1981	$ 138,670.00	$ 20,000.00	$ 158,670.00	$ 23,800.50	$ 36,494.10	$ 218,965.00
3	Raise 60 LF of right bank approximately 100-feet downstream of I-215	$ 31,000.00	30	$ 2,100.00	$ 20,000.00	$ 22,100.00	$ 3,315.00	$ 5,083.00	$ 30,498.00

APPENDIX I

HEC-RAS Profiles

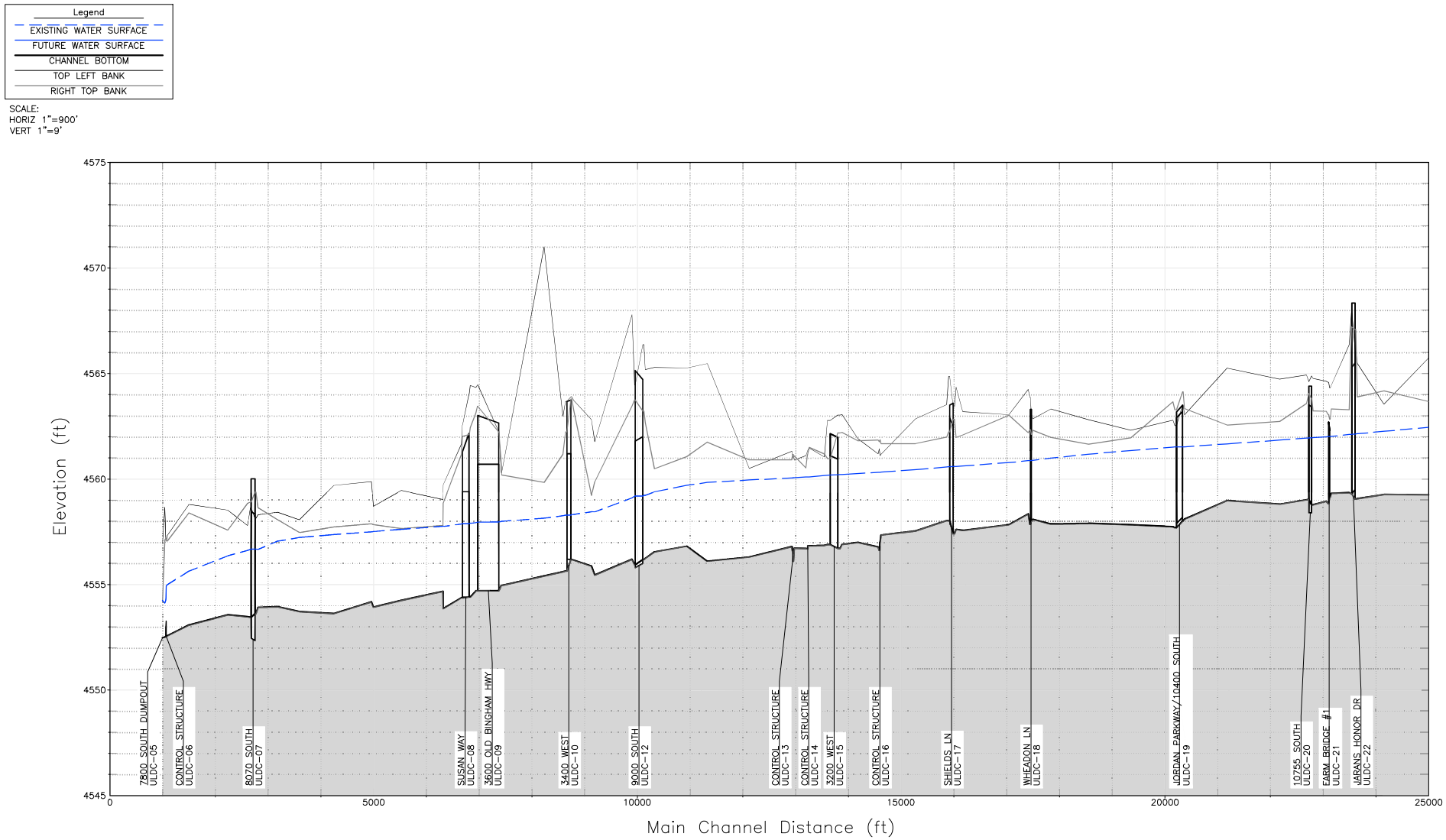


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FIGURE I-01
HYDRAULIC PROFILE OF UTAH LAKE DISTRIBUTING CANAL
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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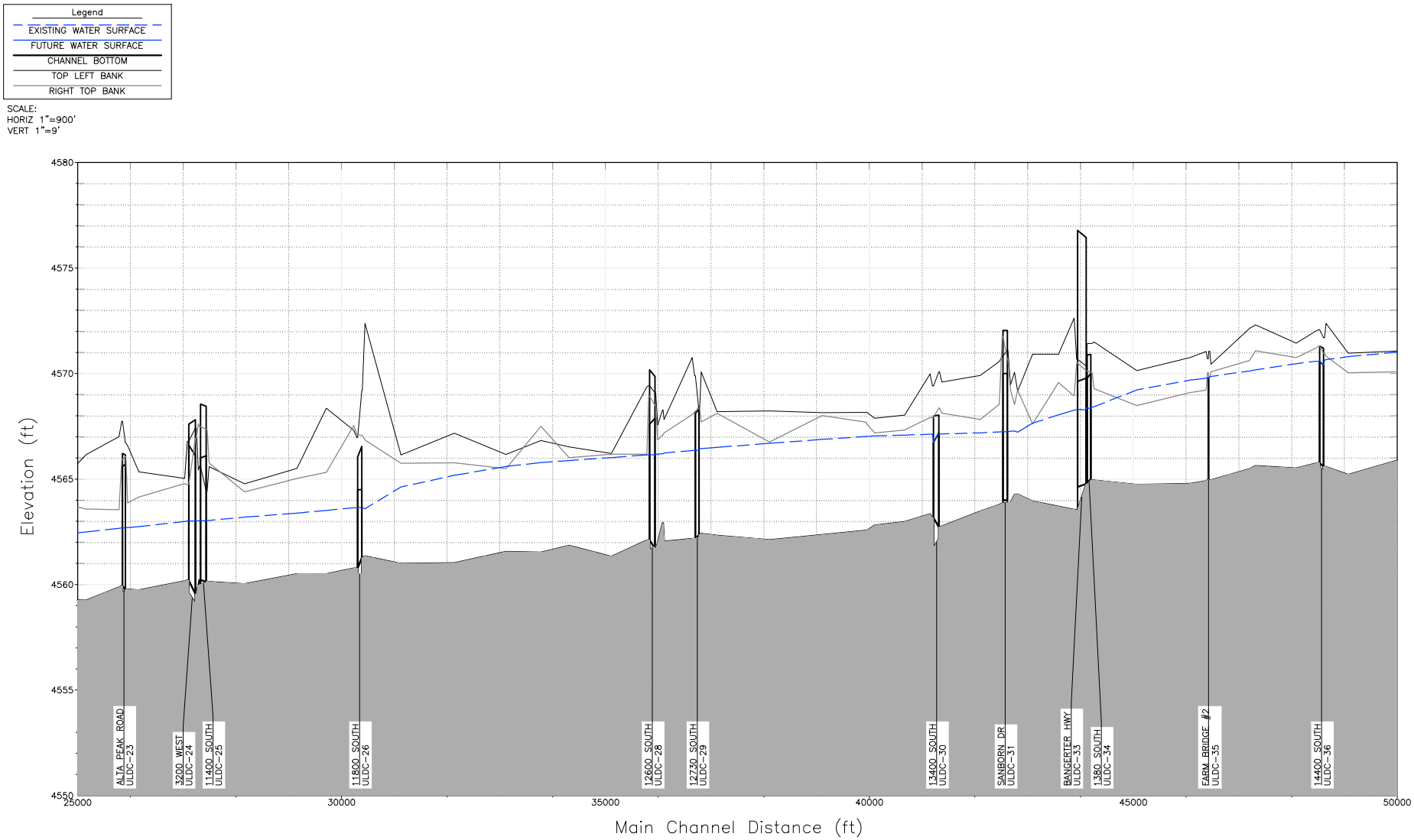

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FIGURE I-01
HYDRAULIC PROFILE OF UTAH LAKE DISTRIBUTING CANAL
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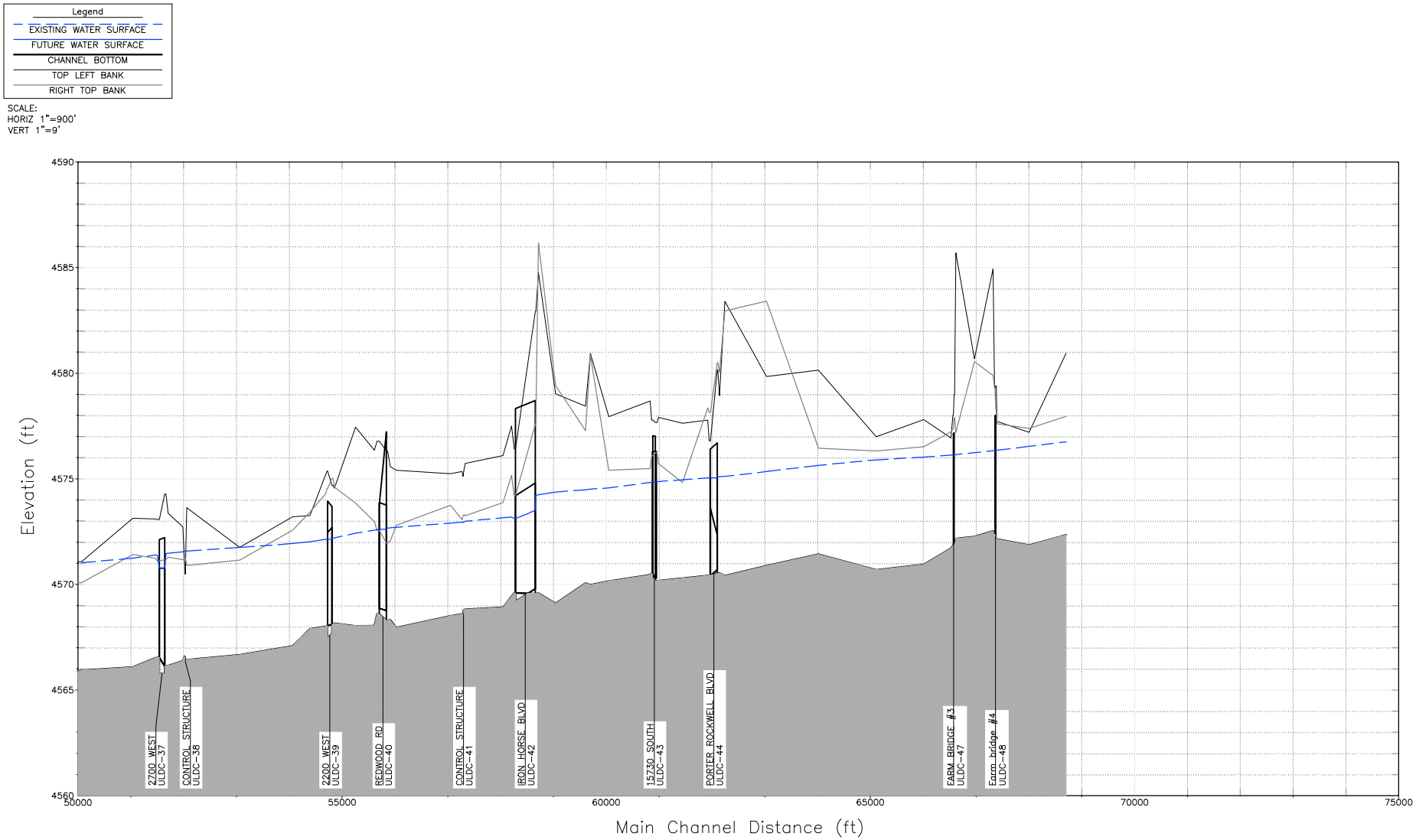

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FIGURE I-01
HYDRAULIC PROFILE OF UTAH LAKE DISTRIBUTING CANAL
SOUTHWEST CANAL AND CREEK STUDY
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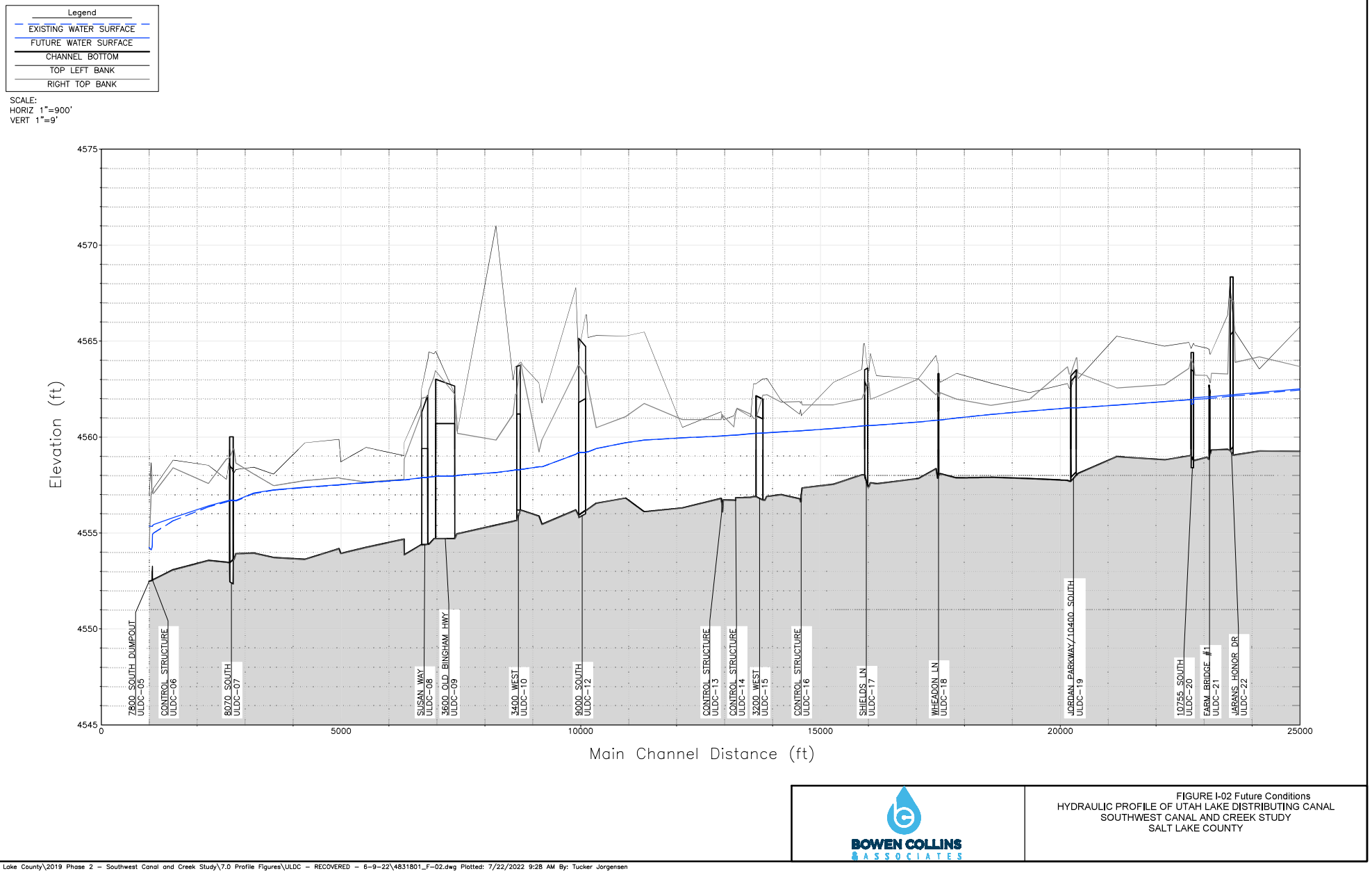

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FIGURE I-02 Future Conditions
HYDRAULIC PROFILE OF UTAH LAKE DISTRIBUTING CANAL
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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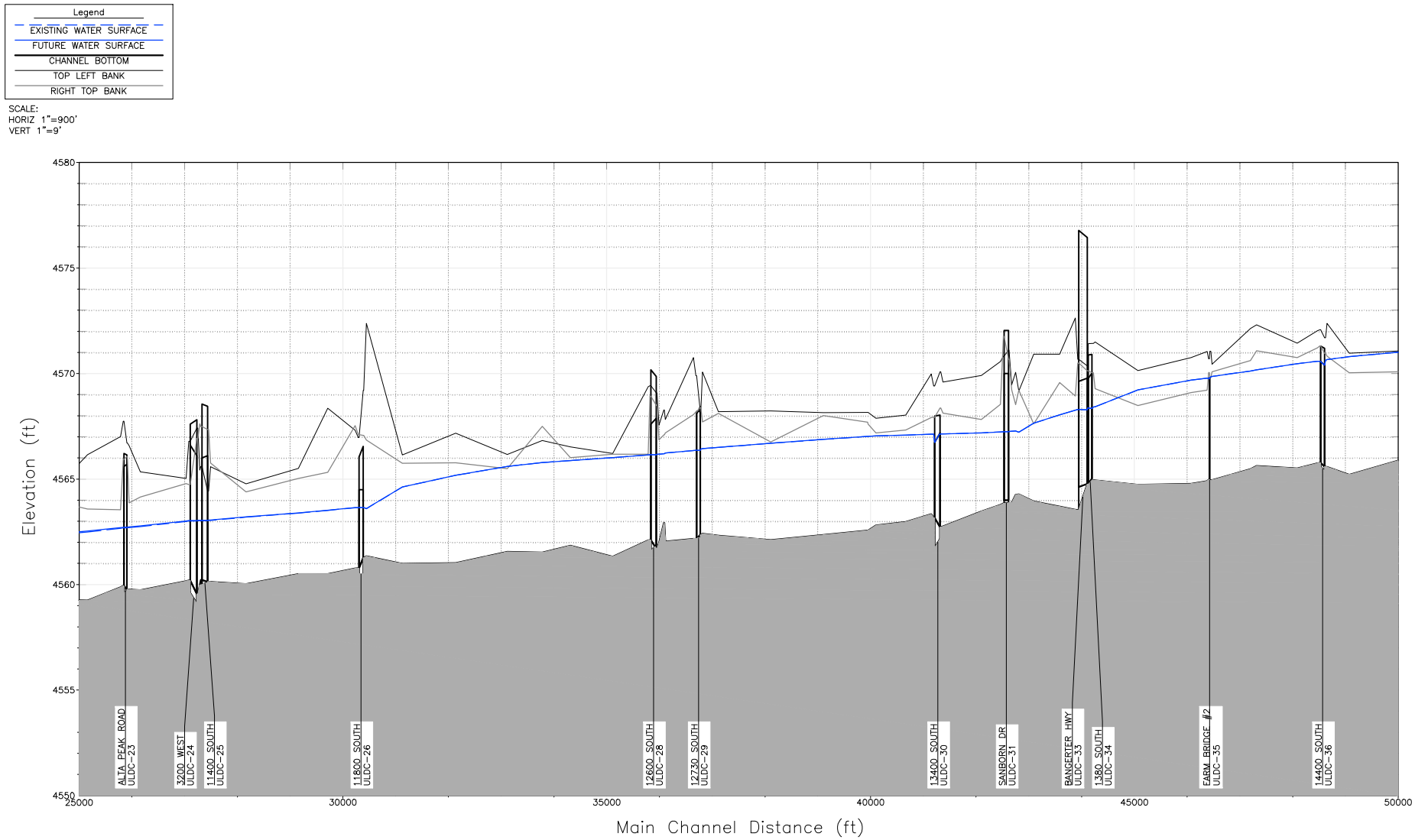

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FIGURE I-02 Future Conditions
HYDRAULIC PROFILE OF UTAH LAKE DISTRIBUTING CANAL
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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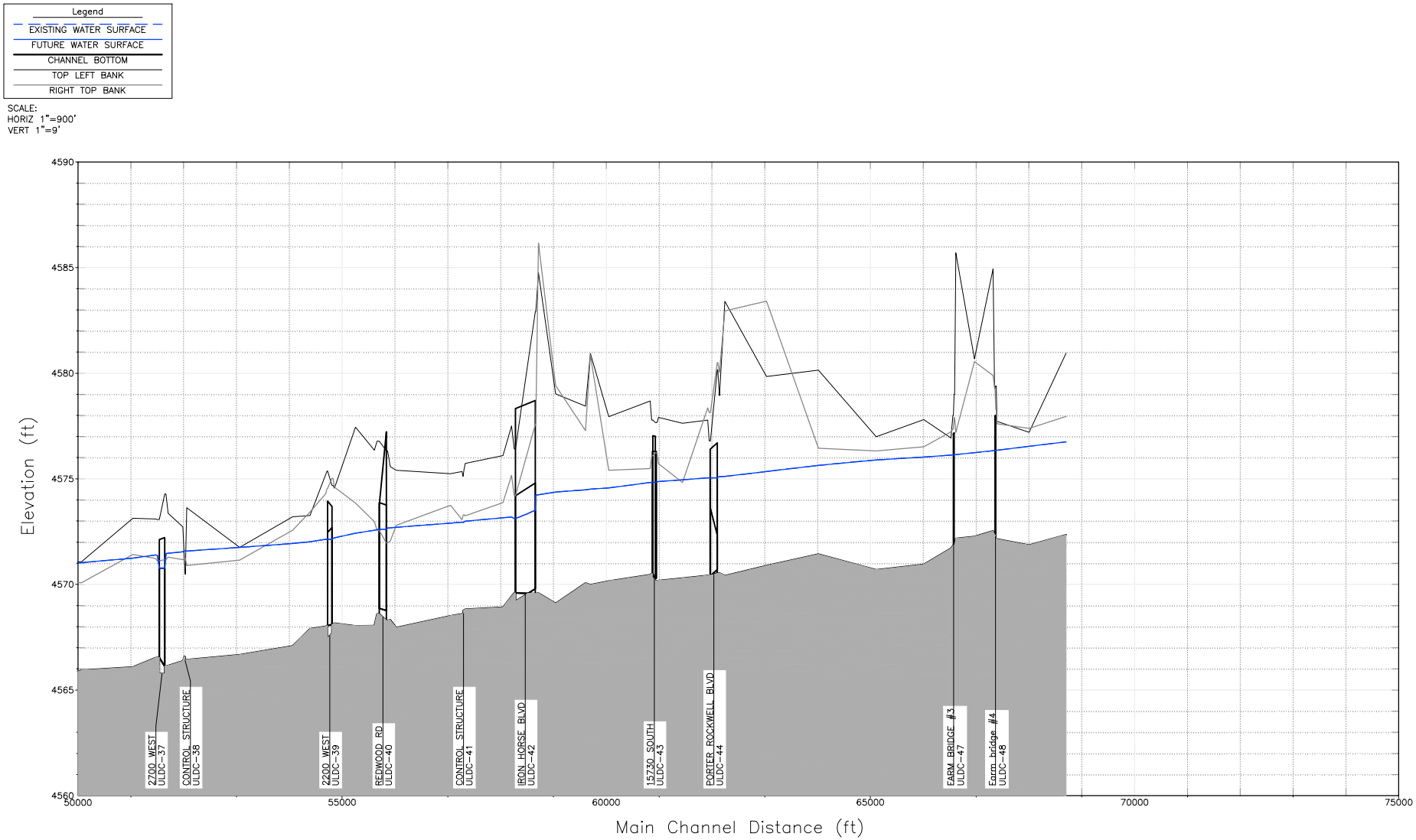

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FIGURE I-02 Future Conditions
HYDRAULIC PROFILE OF UTAH LAKE DISTRIBUTING CANAL
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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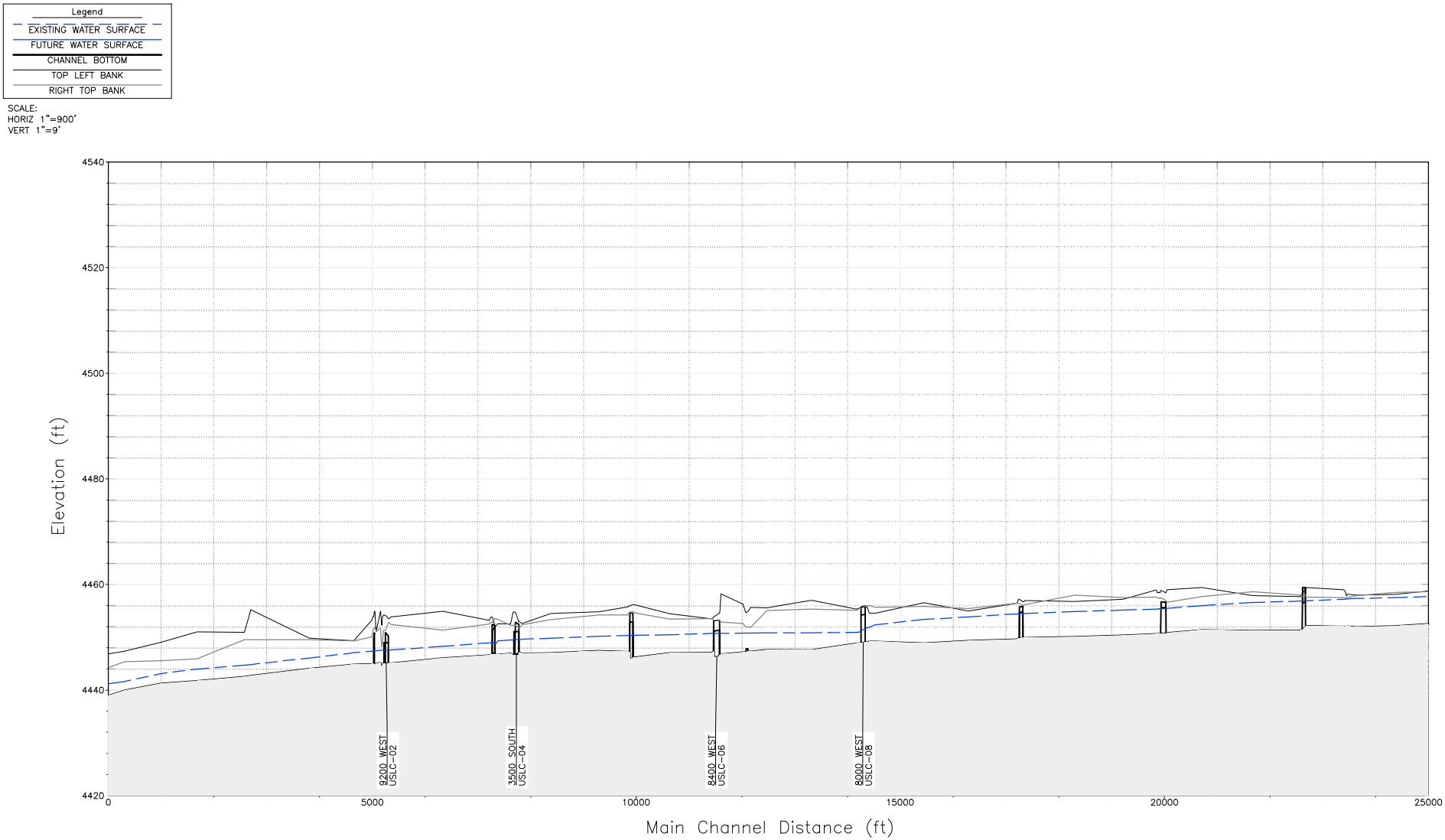

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FIGURE I-03
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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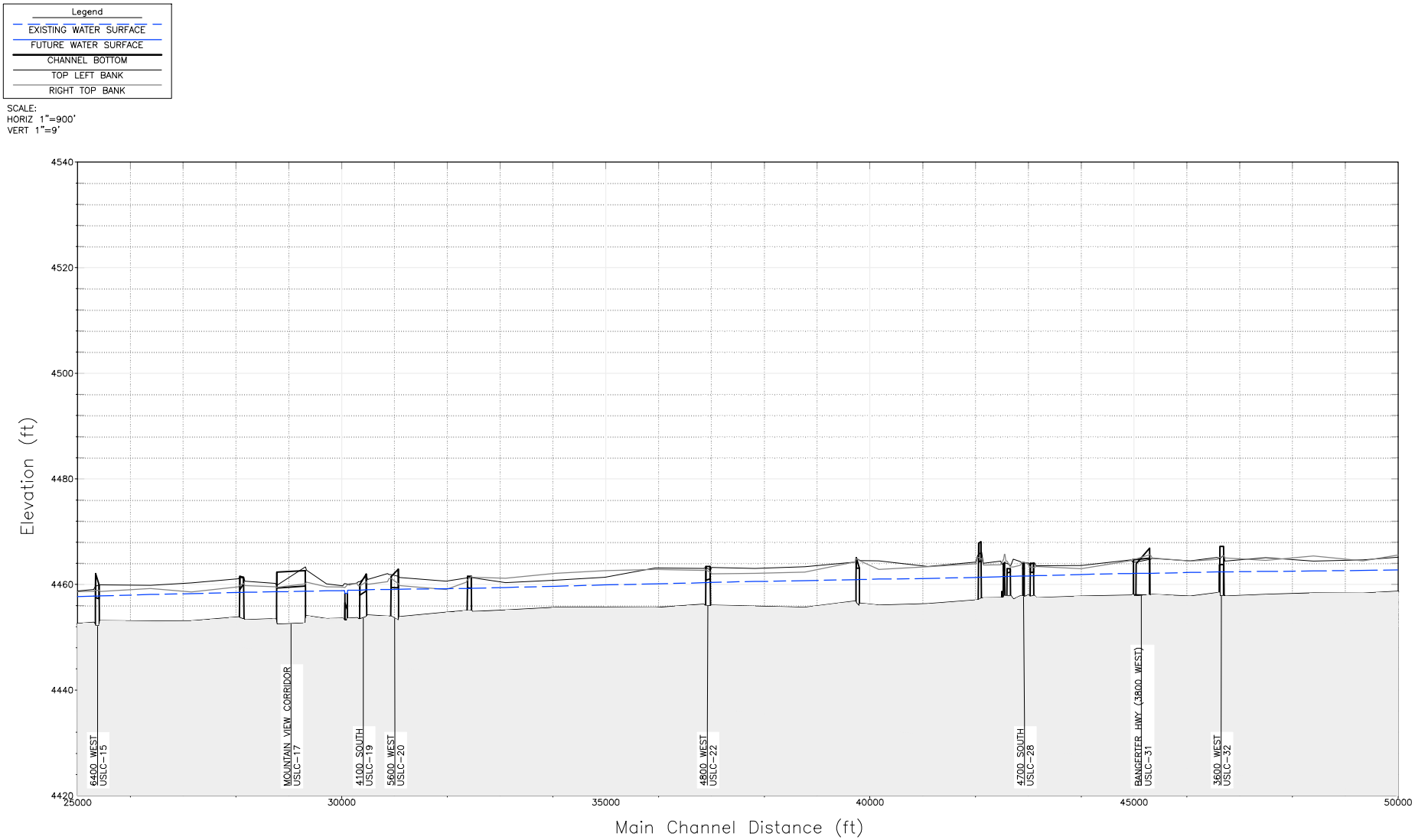

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FIGURE I-03
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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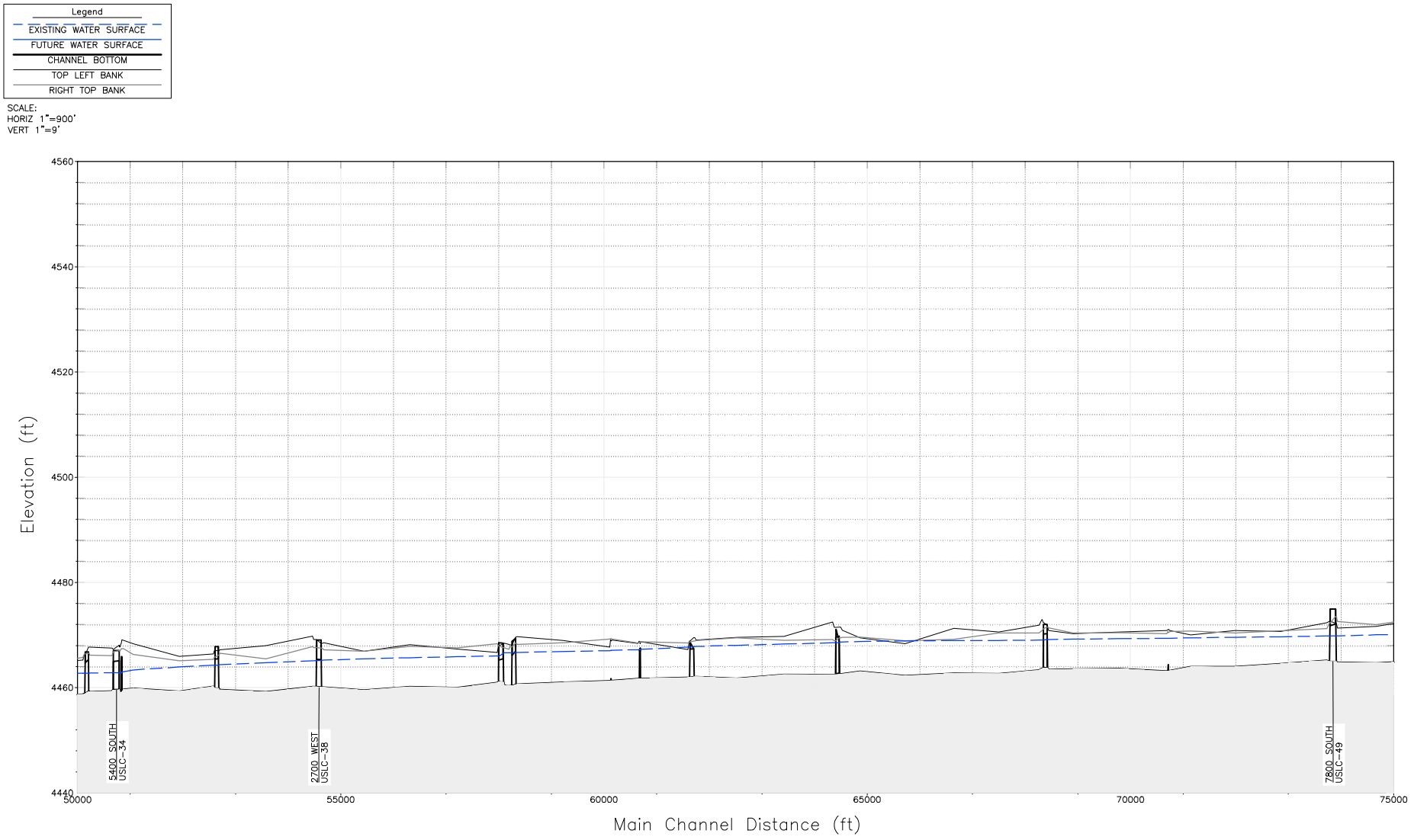

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FIGURE I-03
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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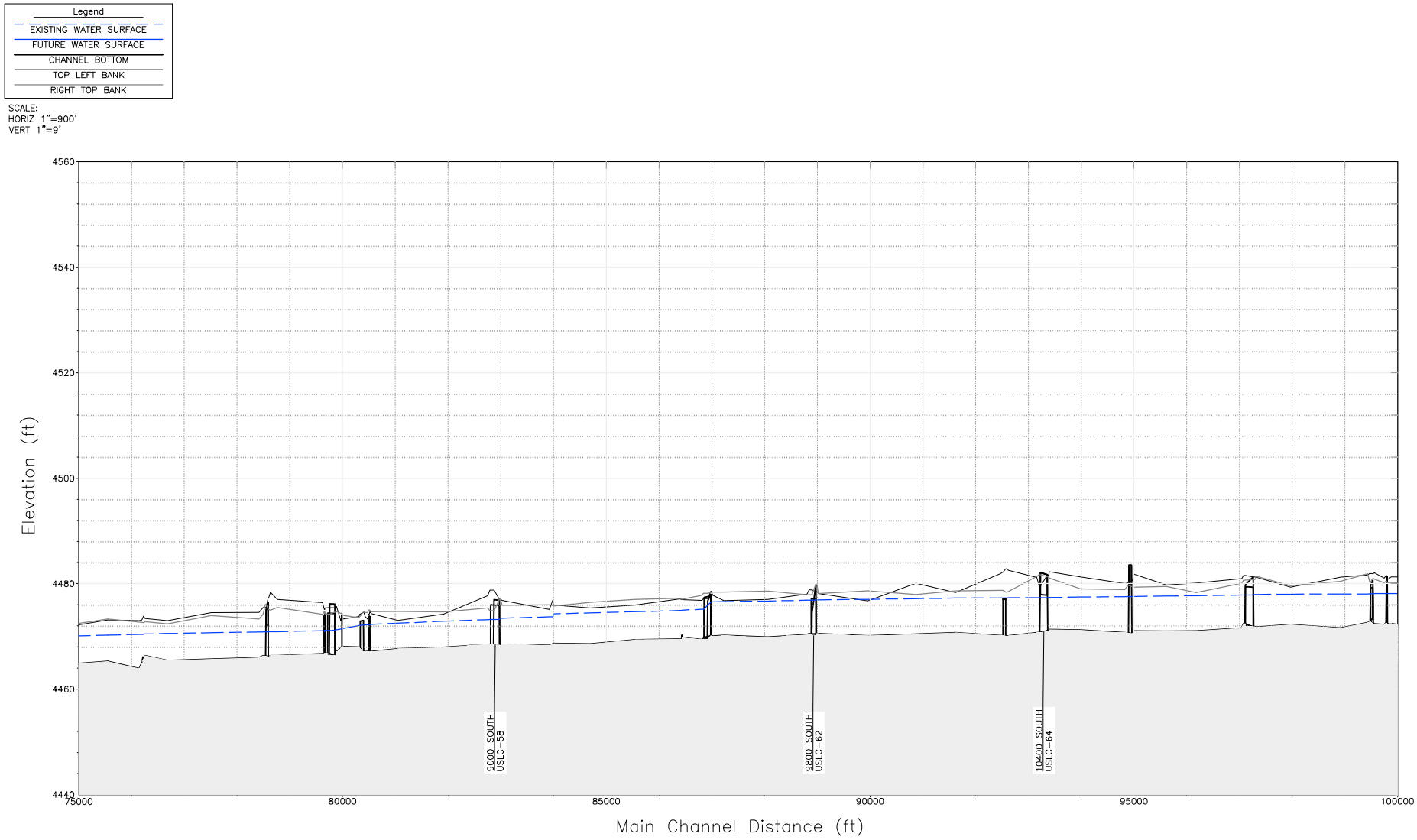

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FIGURE I-03
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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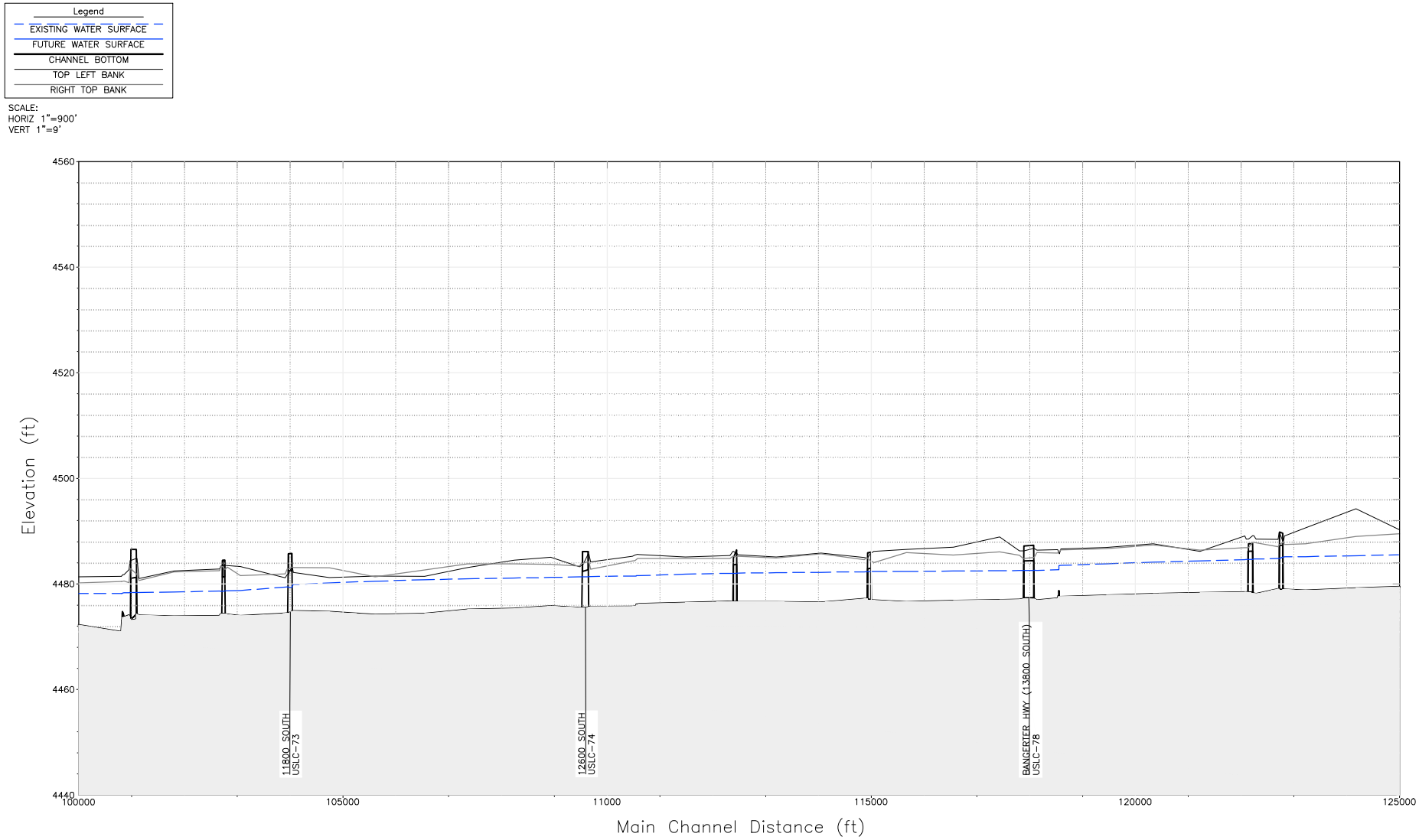

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FIGURE I-03
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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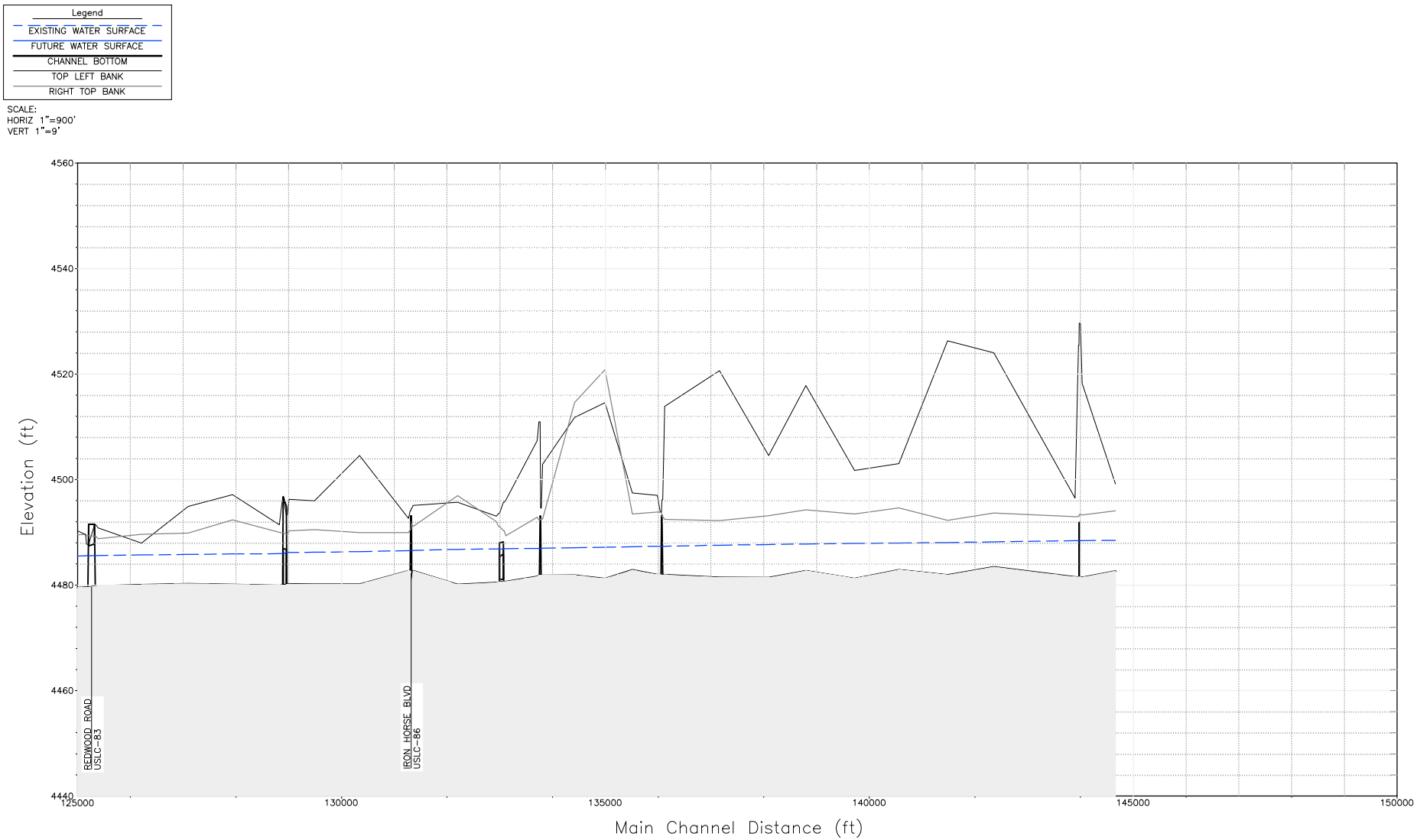

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FIGURE I-03
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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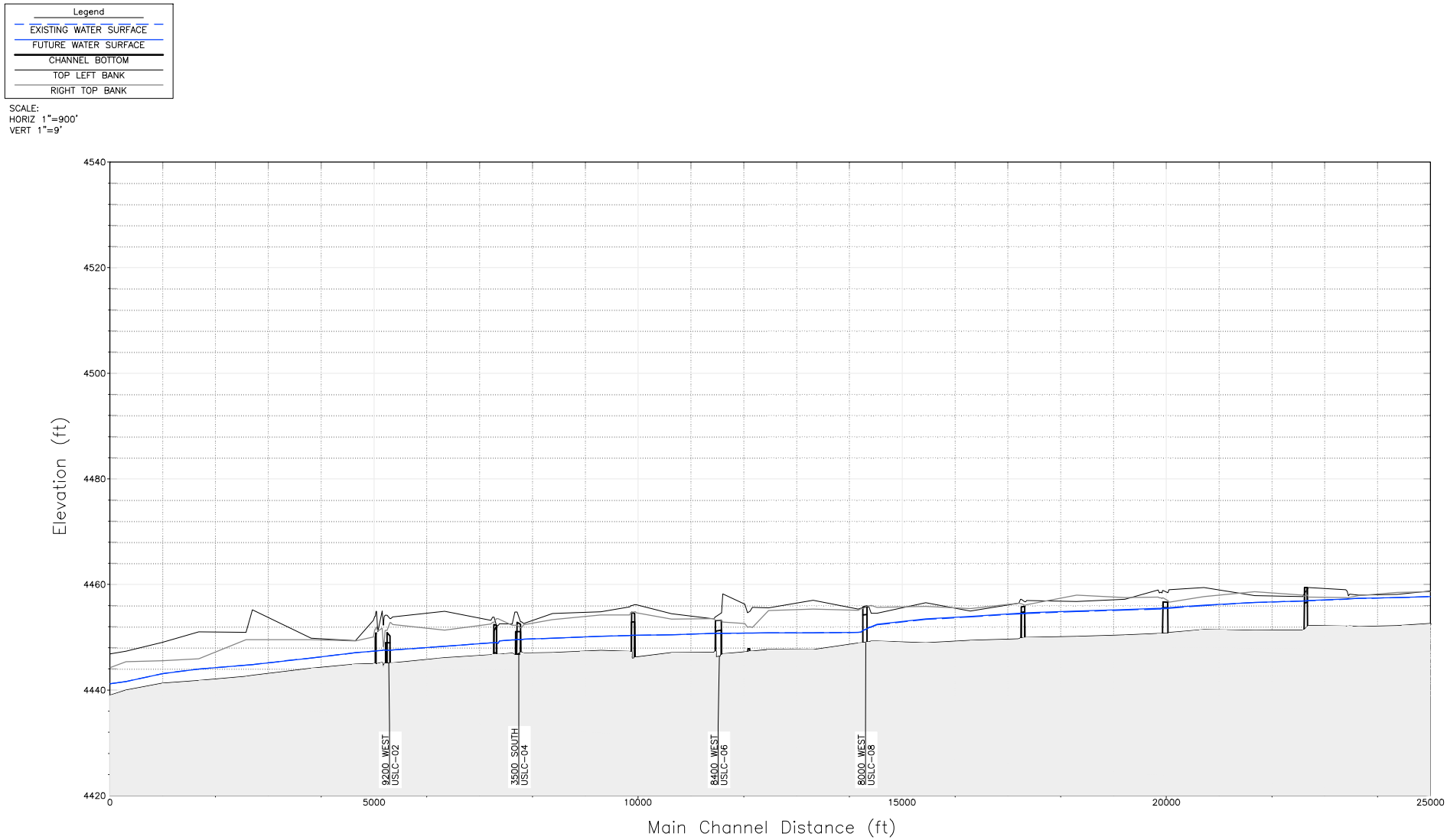

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FIGURE I-04
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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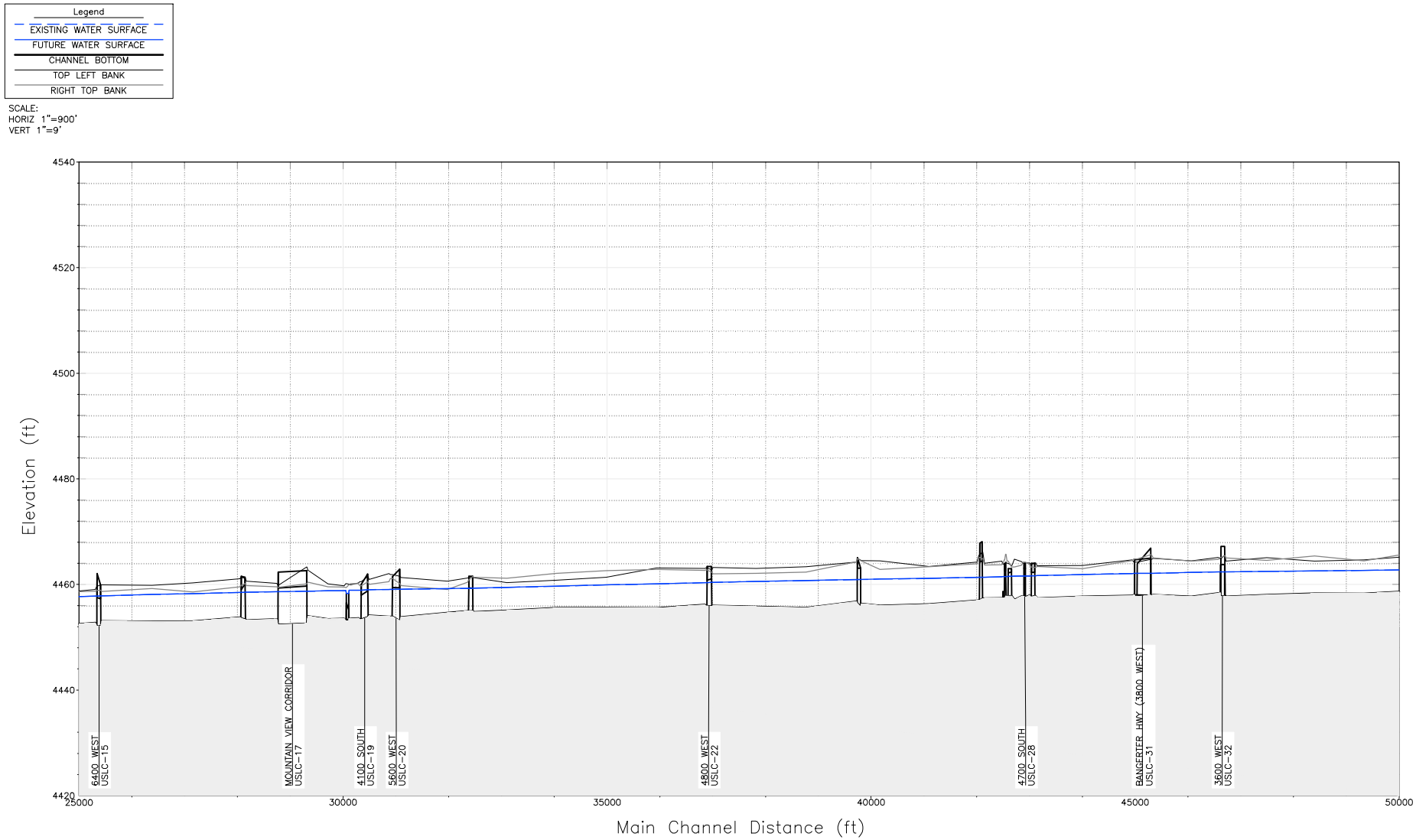

BOWEN COLLINS & ASSOCIATES

FIGURE I-04
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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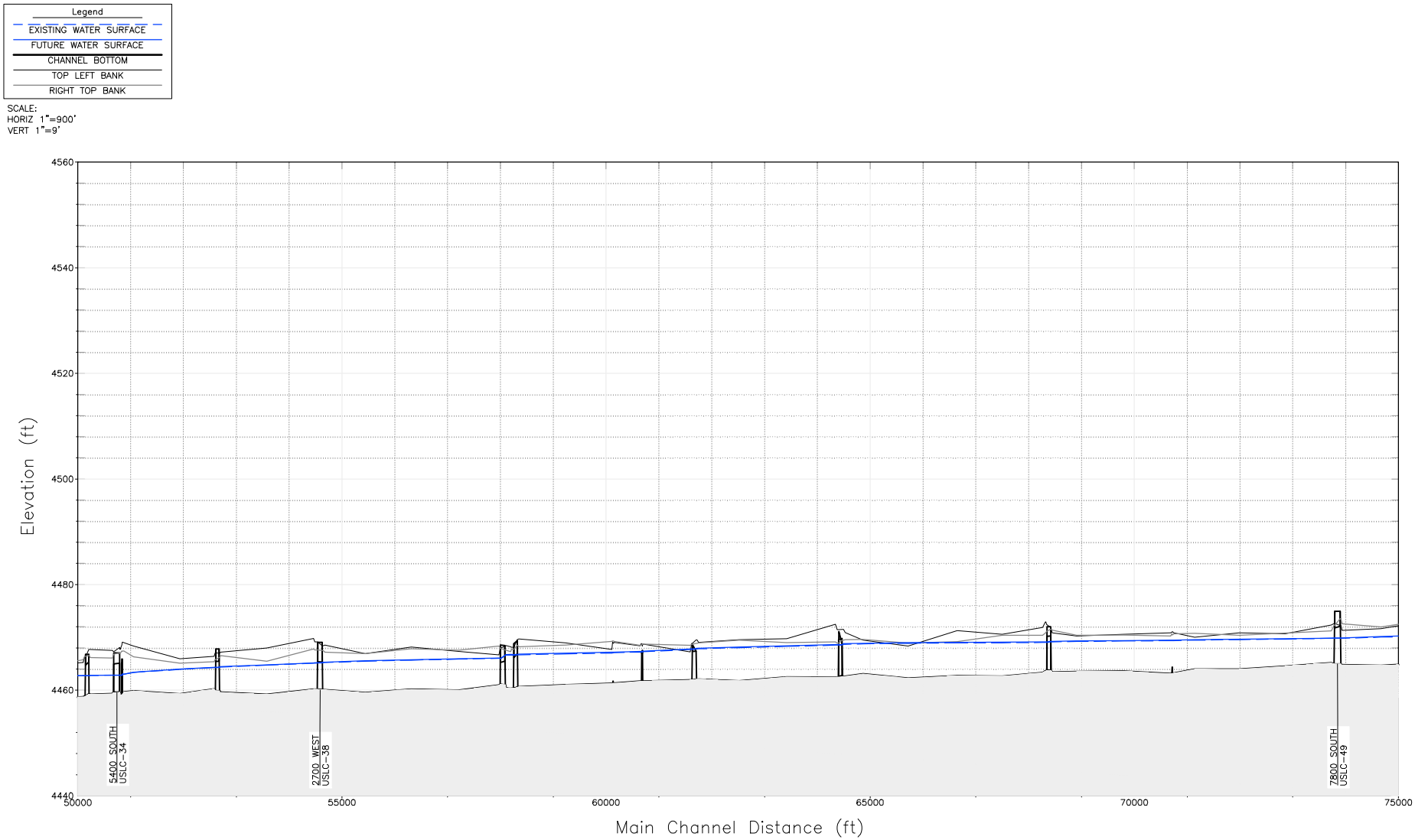

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FIGURE I-04
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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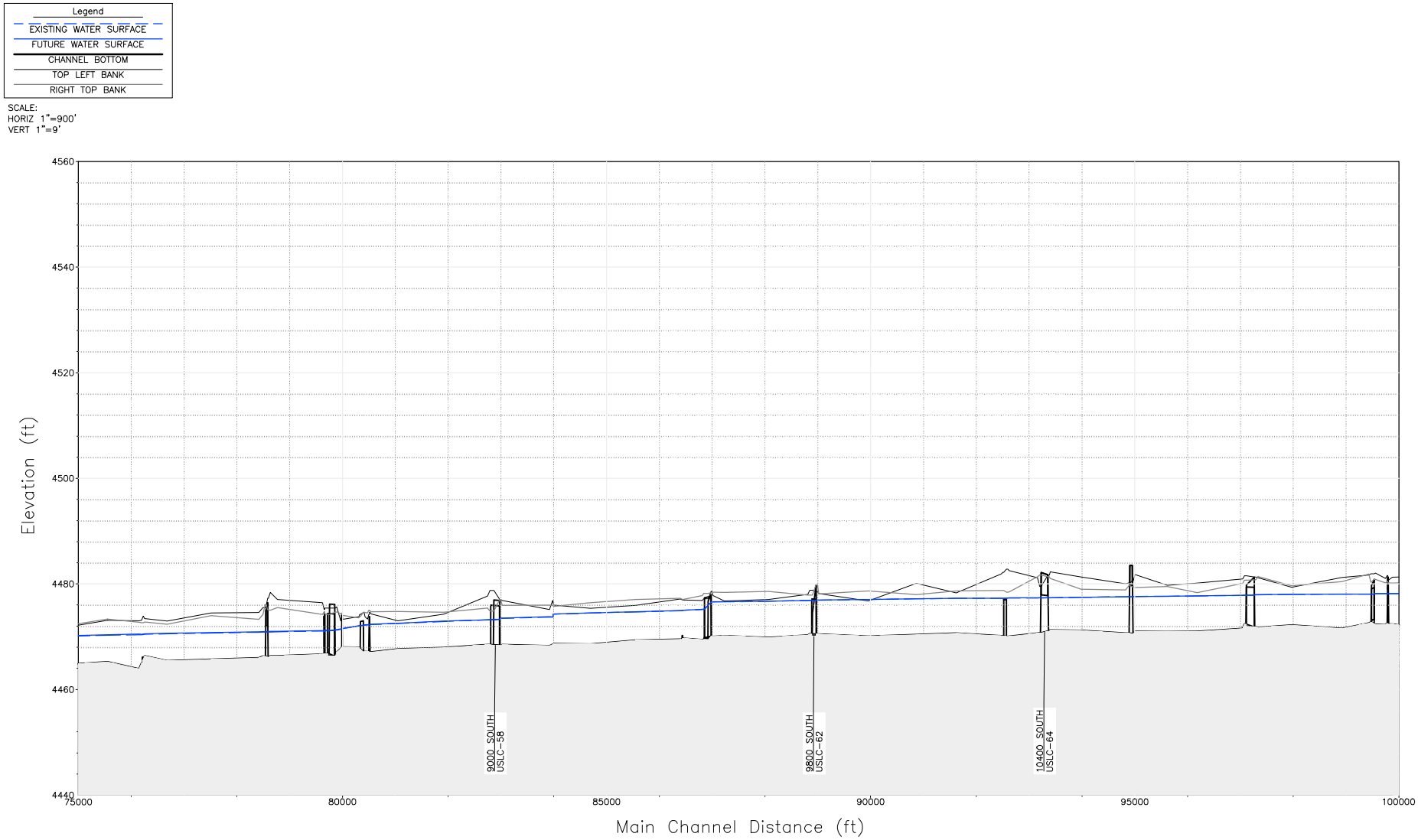

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FIGURE I-04
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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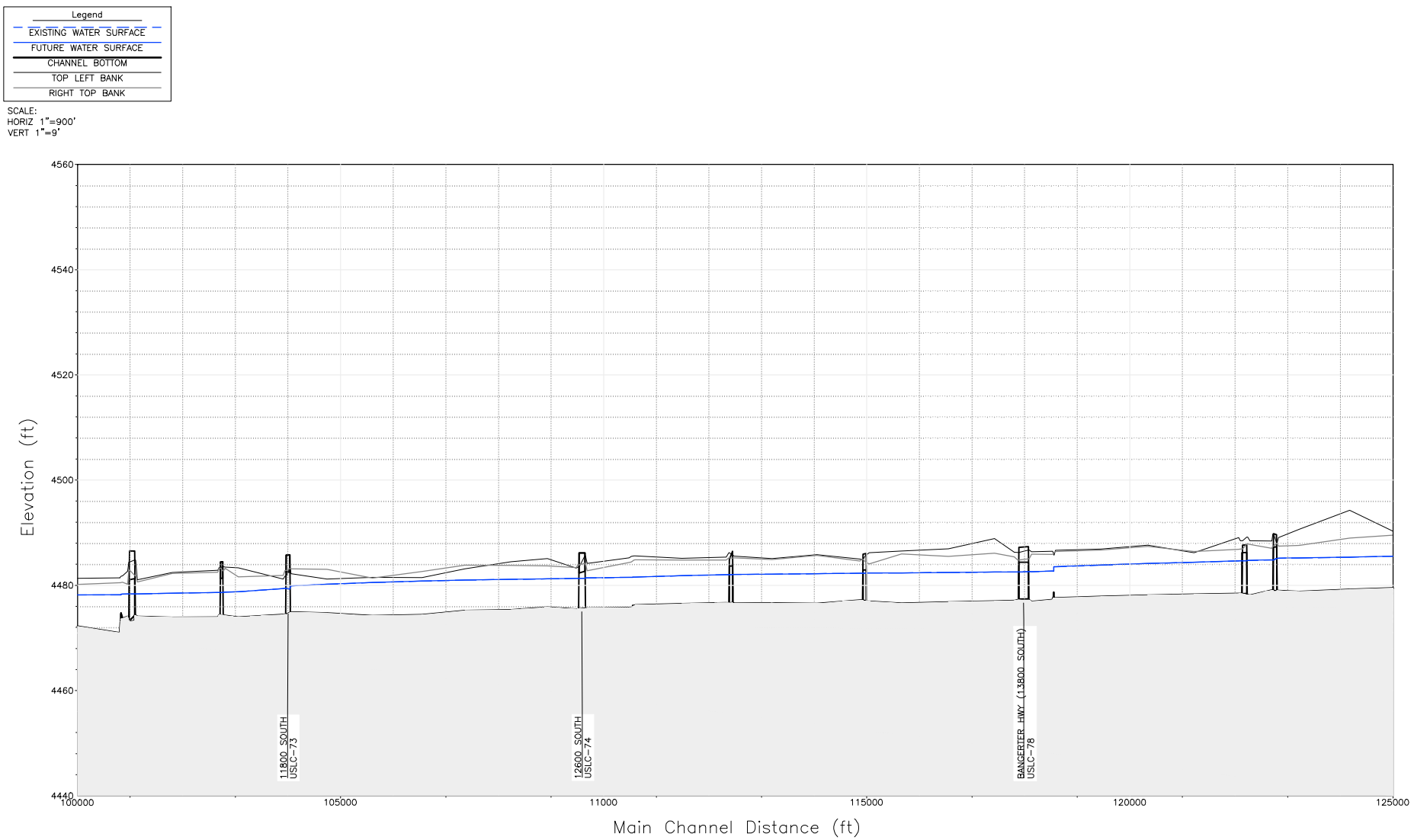

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FIGURE I-04
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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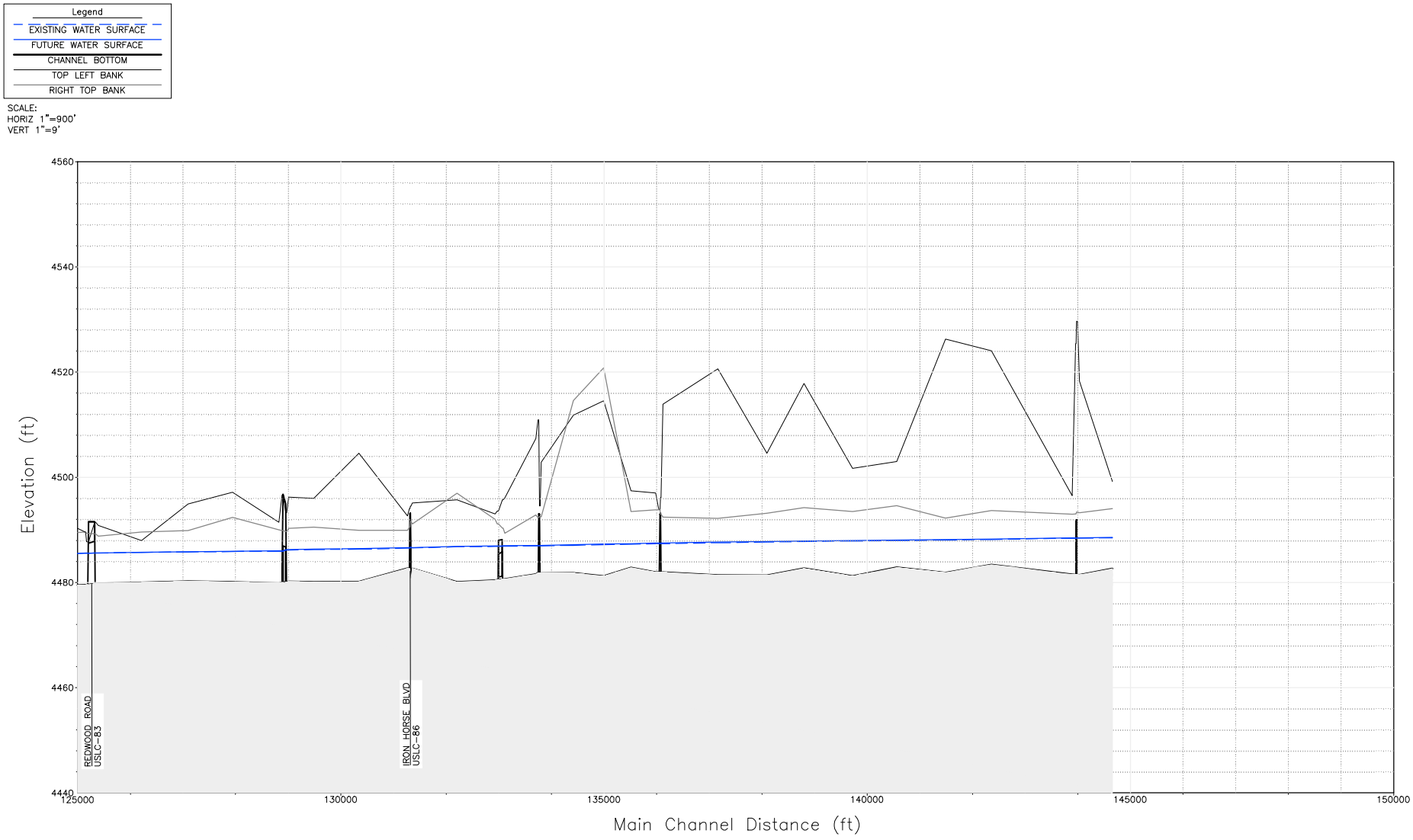

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FIGURE I-04
HYDRAULIC PROFILE OF UTAH AND SALT LAKE CANAL - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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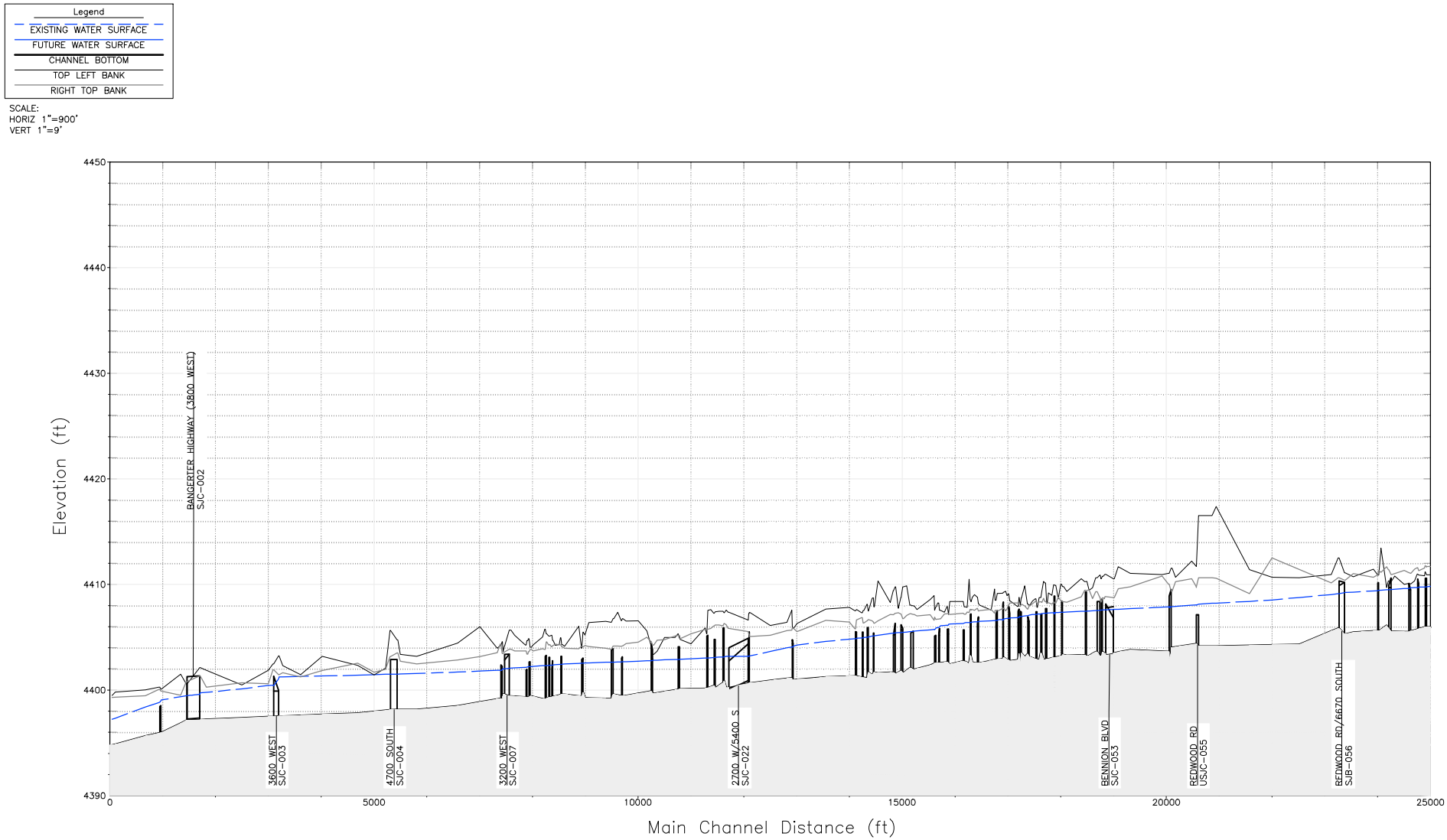

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FIGURE I-05
HYDRAULIC PROFILE OF SOUTH JORDAN CANAL - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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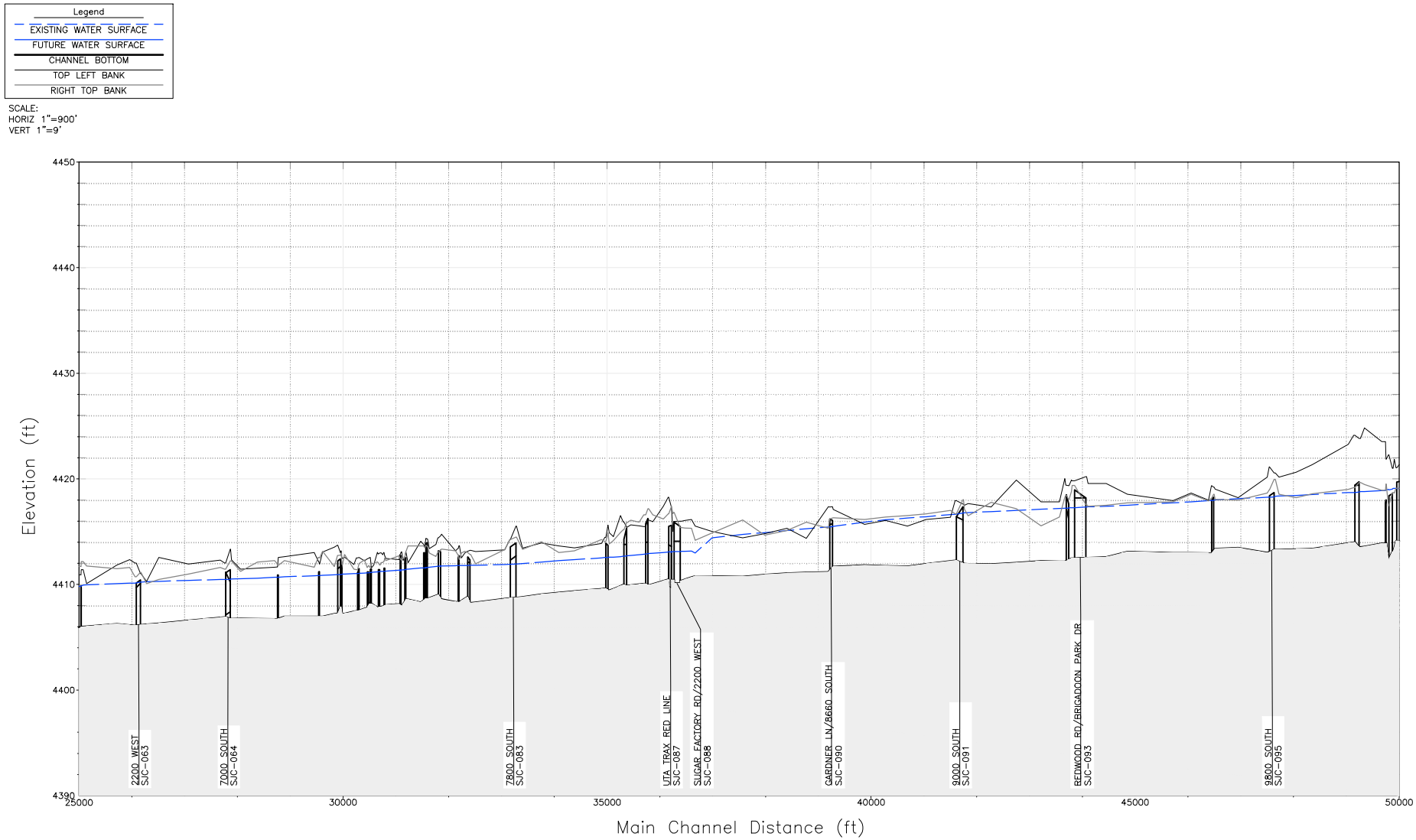

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FIGURE I-05
HYDRAULIC PROFILE OF SOUTH JORDAN CANAL - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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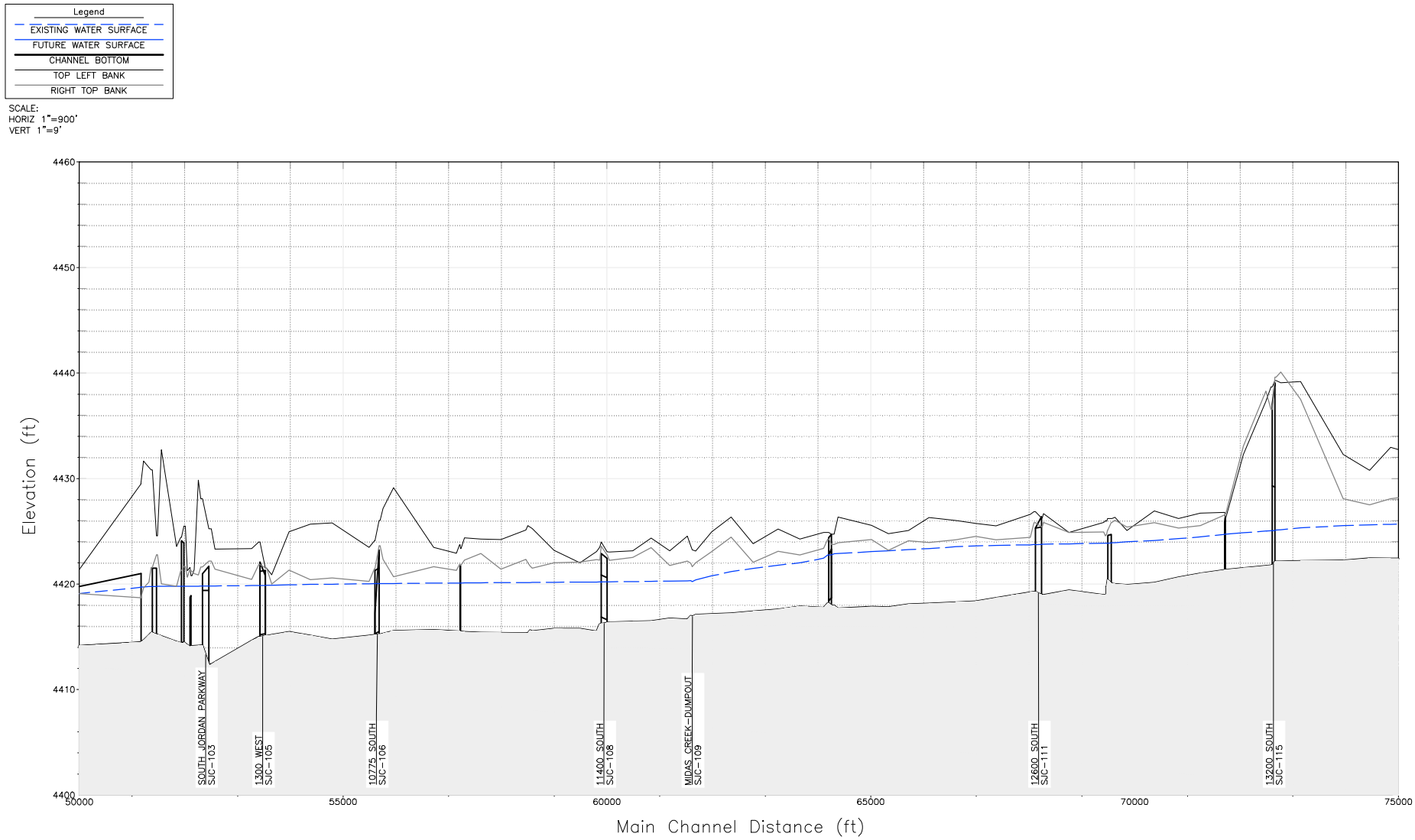

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FIGURE I-05
HYDRAULIC PROFILE OF SOUTH JORDAN CANAL - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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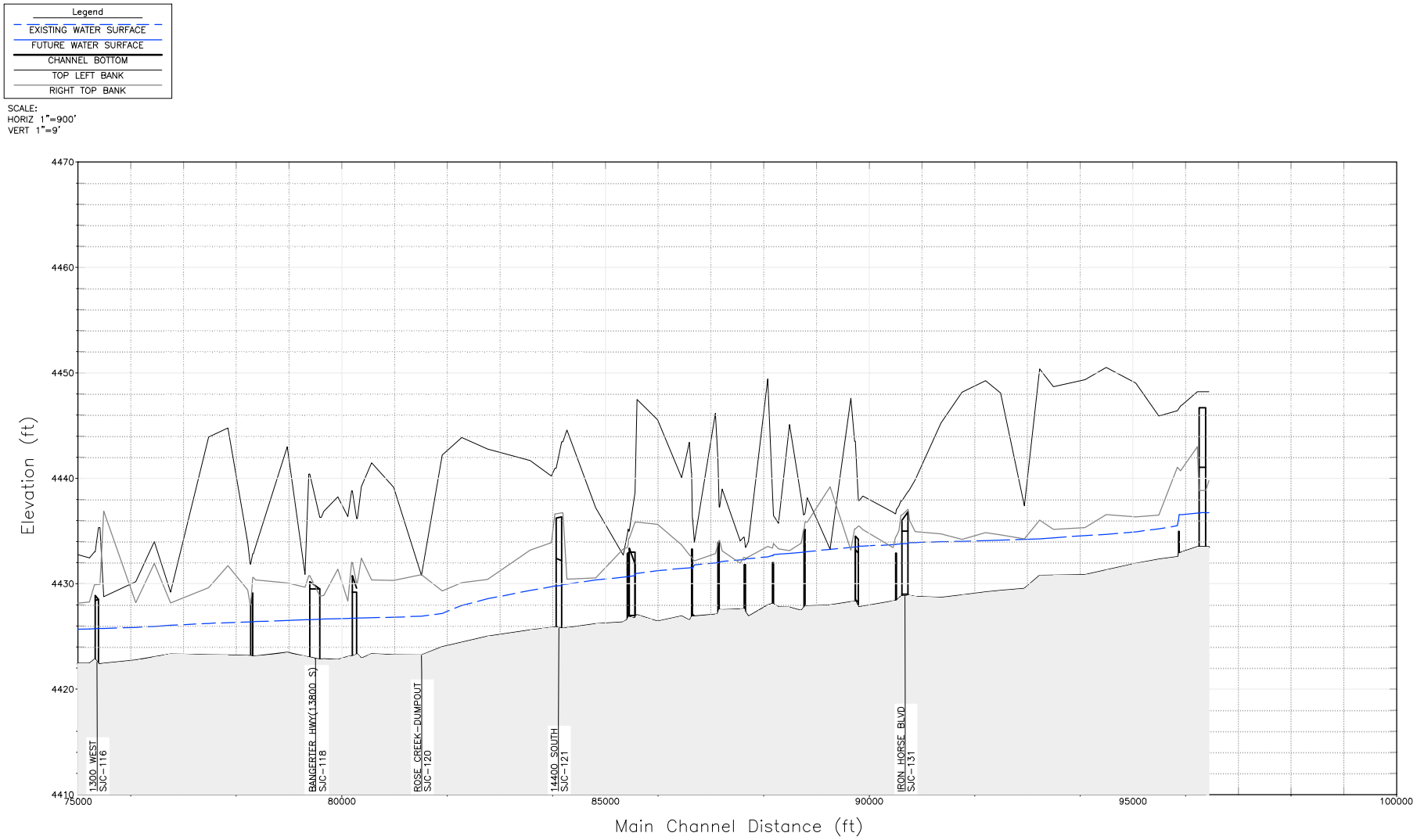

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FIGURE I-05
HYDRAULIC PROFILE OF SOUTH JORDAN CANAL - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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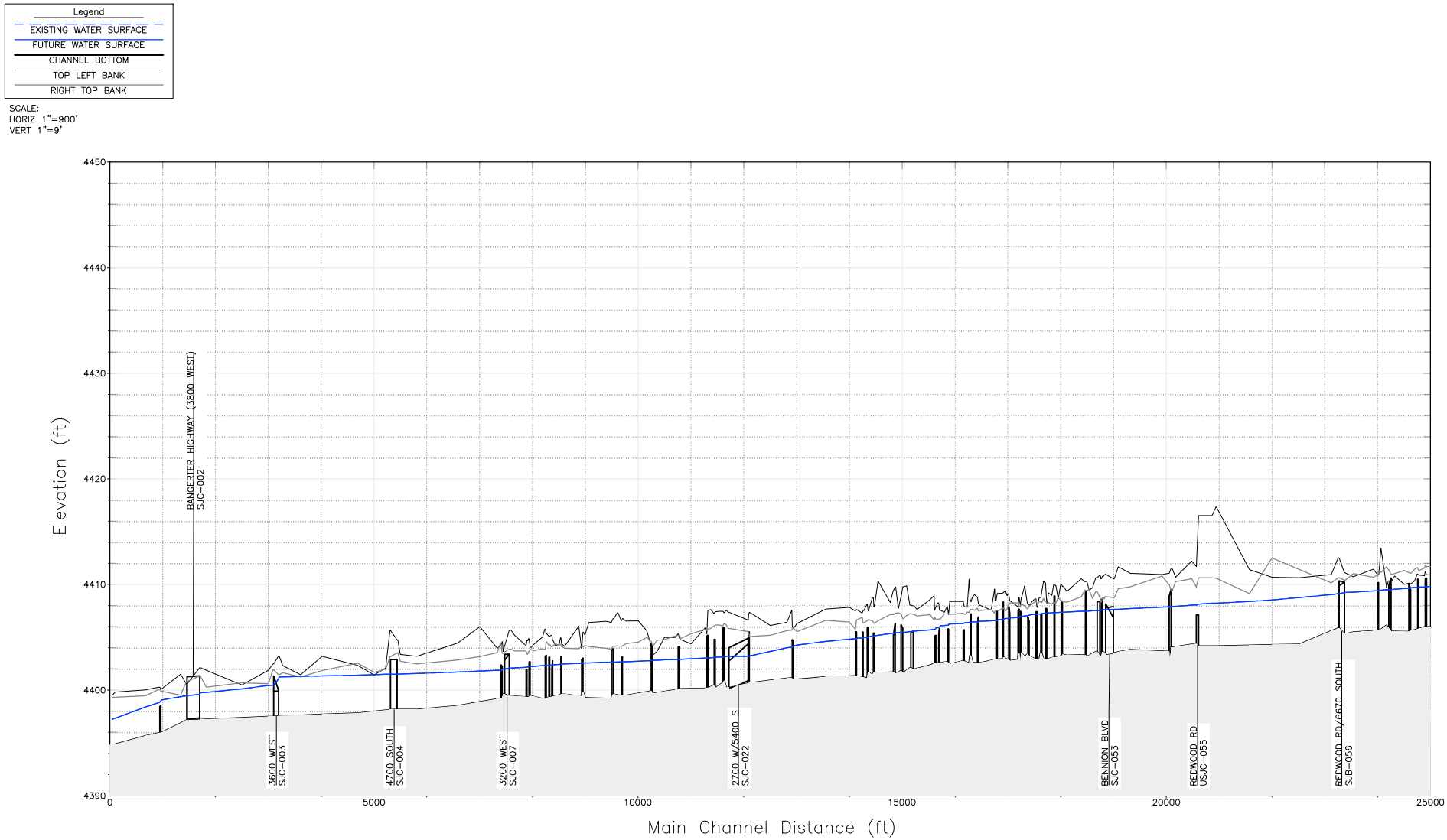

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FIGURE I-06
HYDRAULIC PROFILE OF SOUTH JORDAN CANAL - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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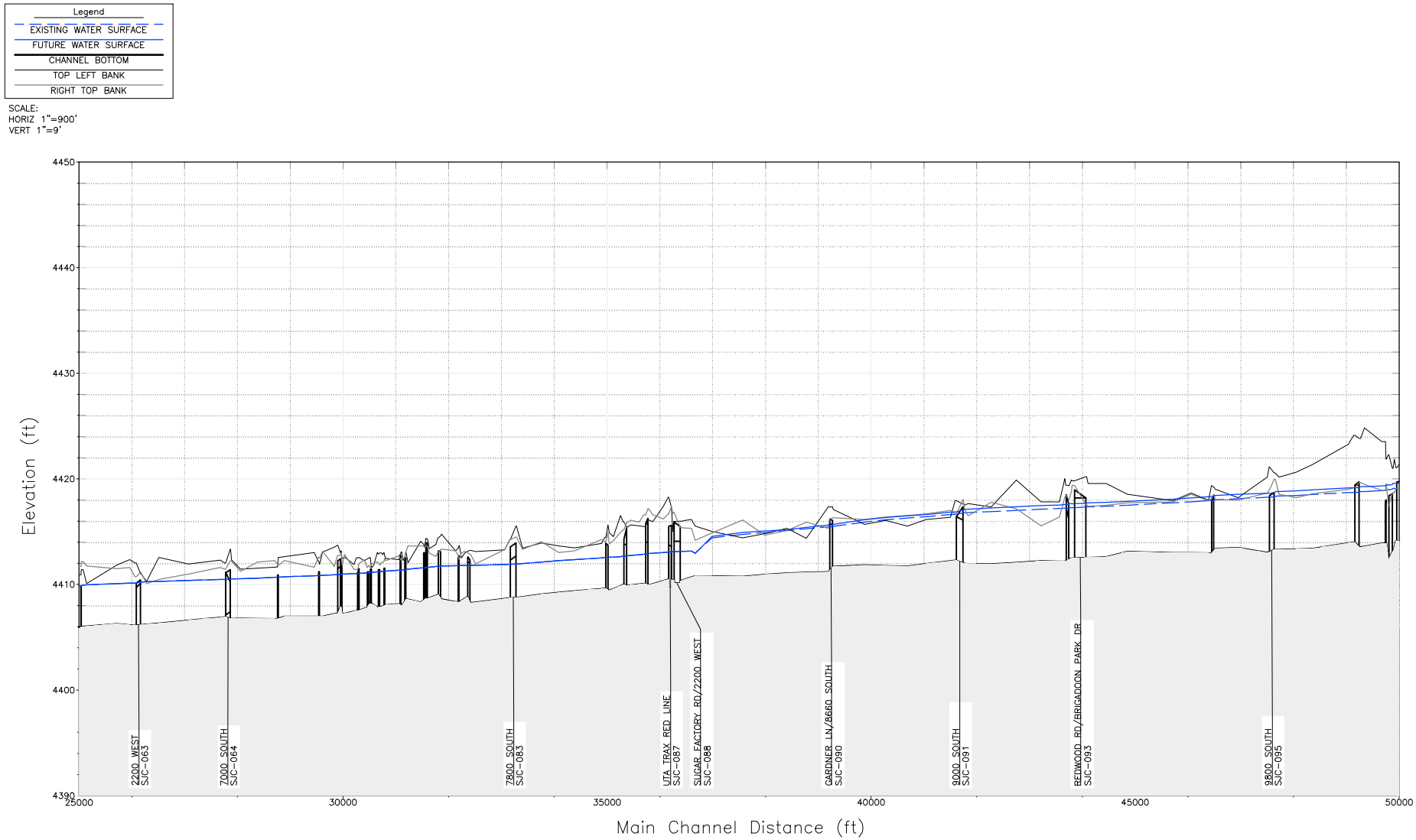

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FIGURE I-06
HYDRAULIC PROFILE OF SOUTH JORDAN CANAL - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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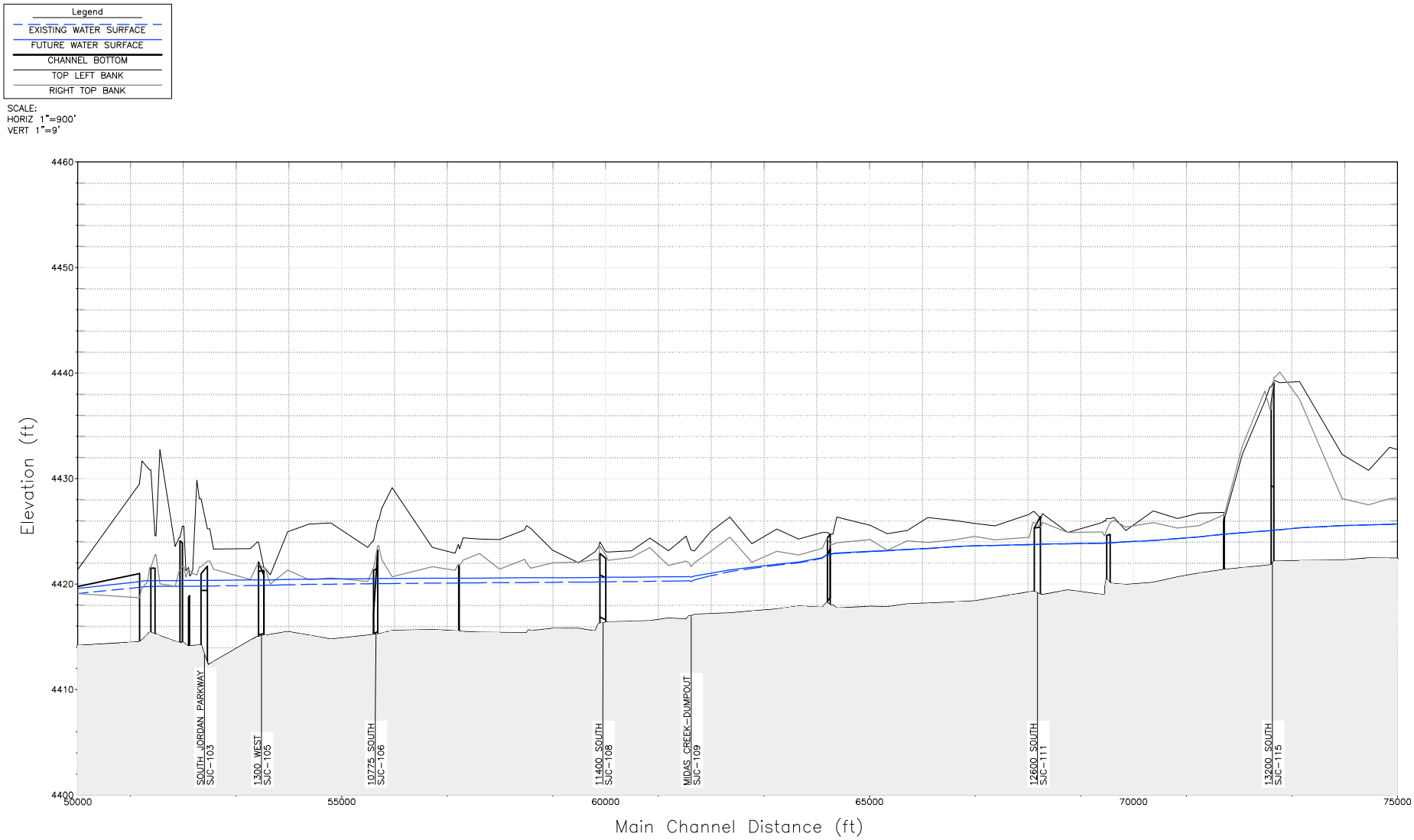

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FIGURE I-06
HYDRAULIC PROFILE OF SOUTH JORDAN CANAL - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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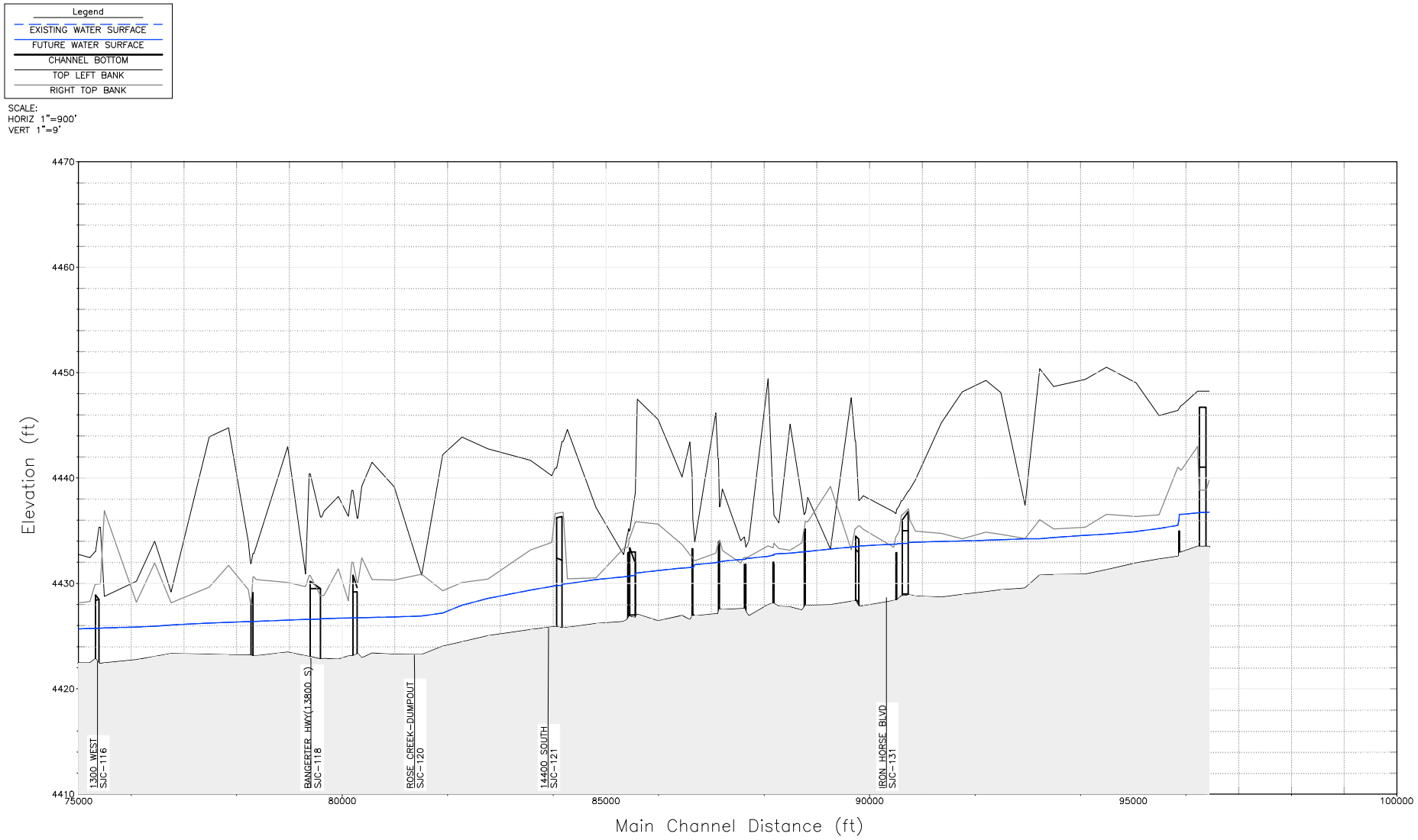

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FIGURE I-06
HYDRAULIC PROFILE OF SOUTH JORDAN CANAL - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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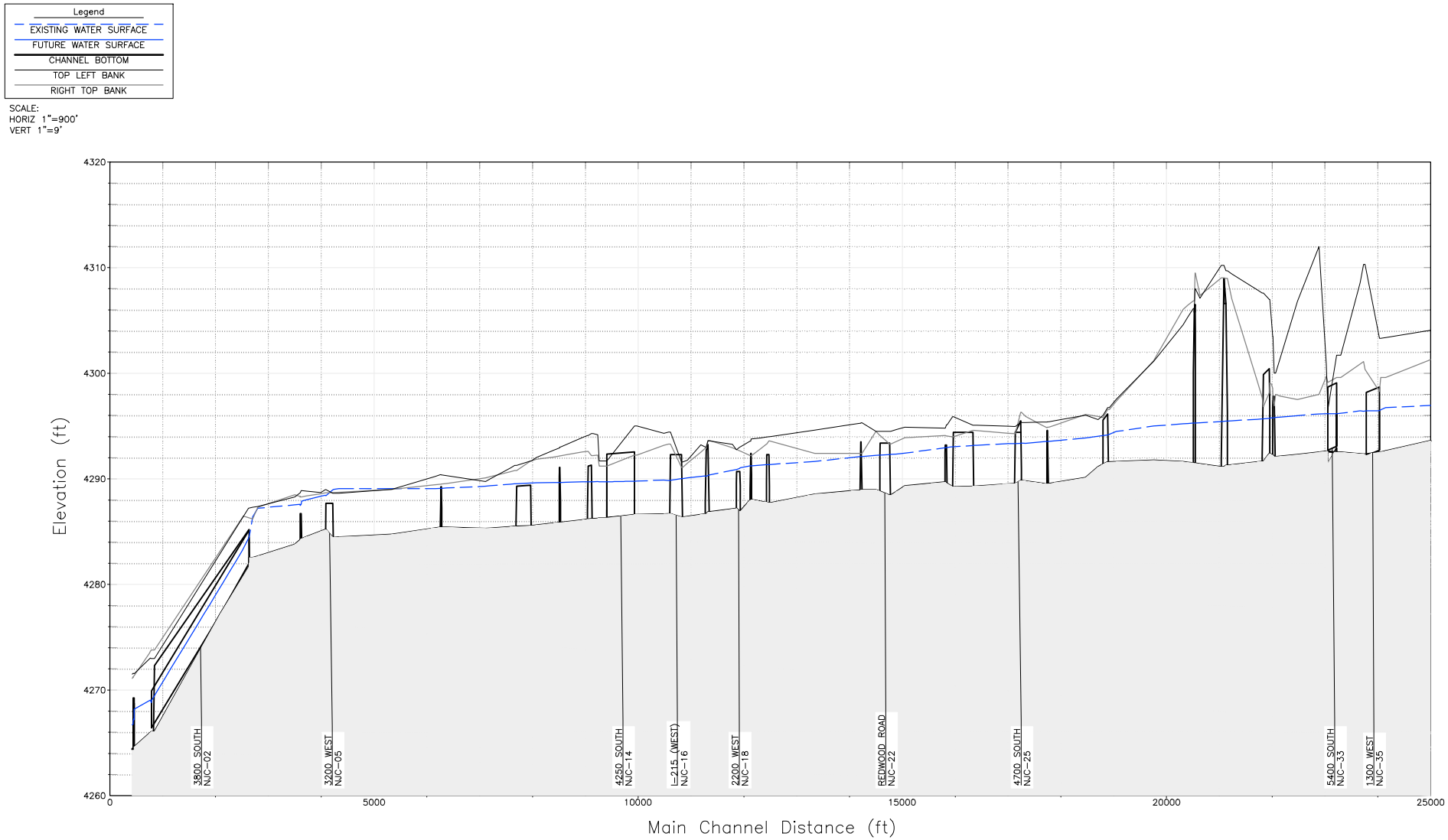

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FIGURE I-07
HYDRAULIC PROFILE OF NJC - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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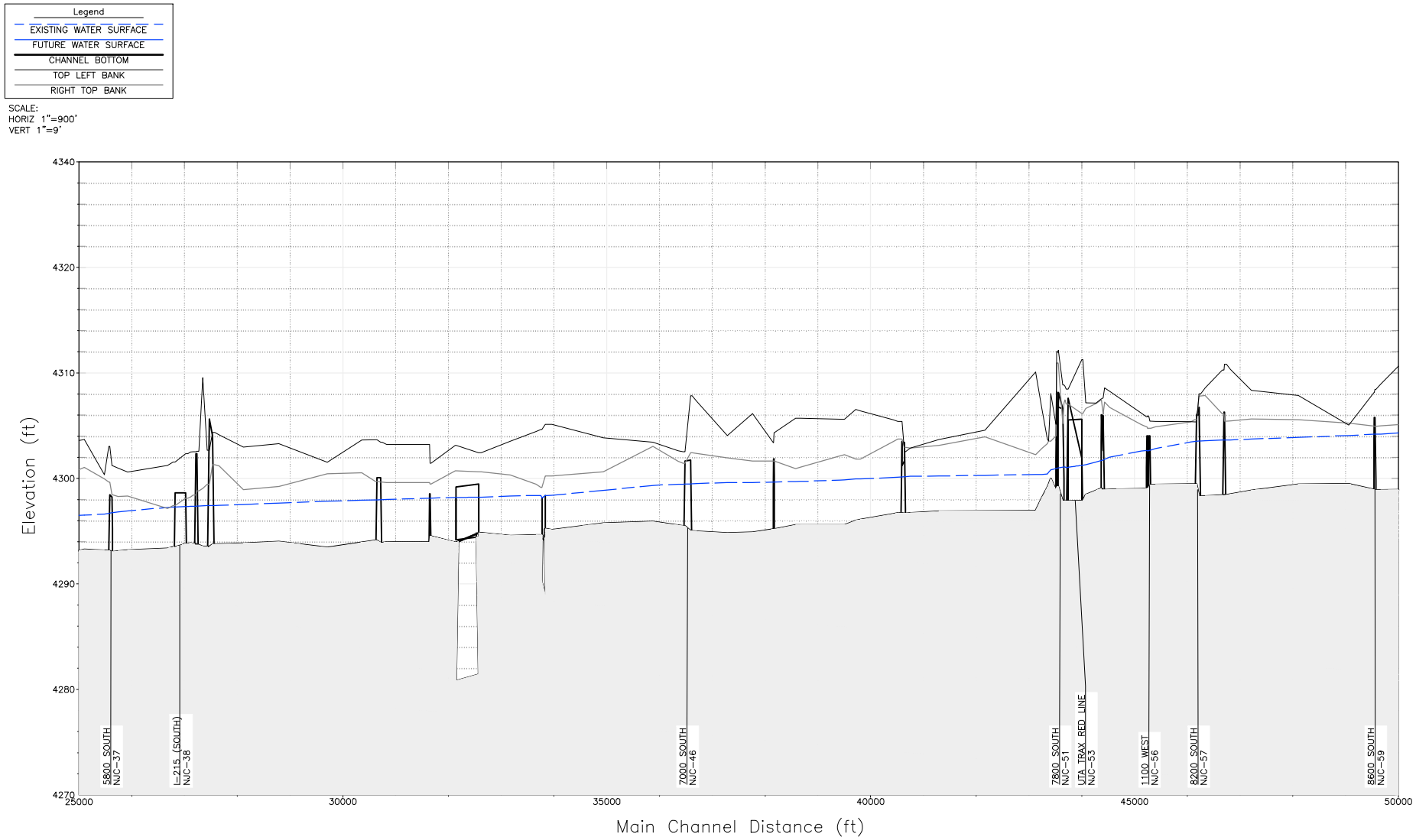

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FIGURE I-07
HYDRAULIC PROFILE OF NJC - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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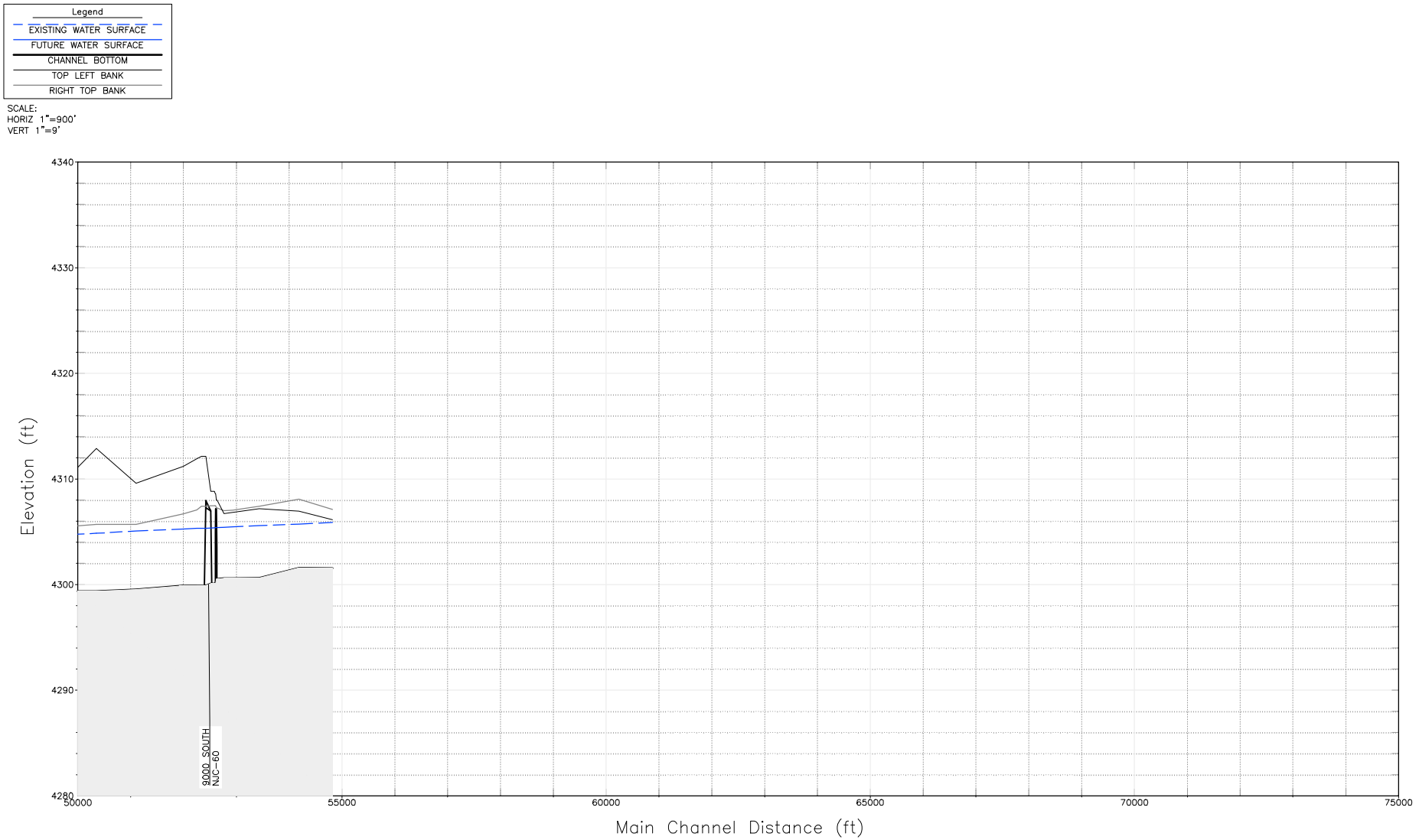

BOWEN COLLINS & ASSOCIATES

FIGURE I-07
HYDRAULIC PROFILE OF NJC - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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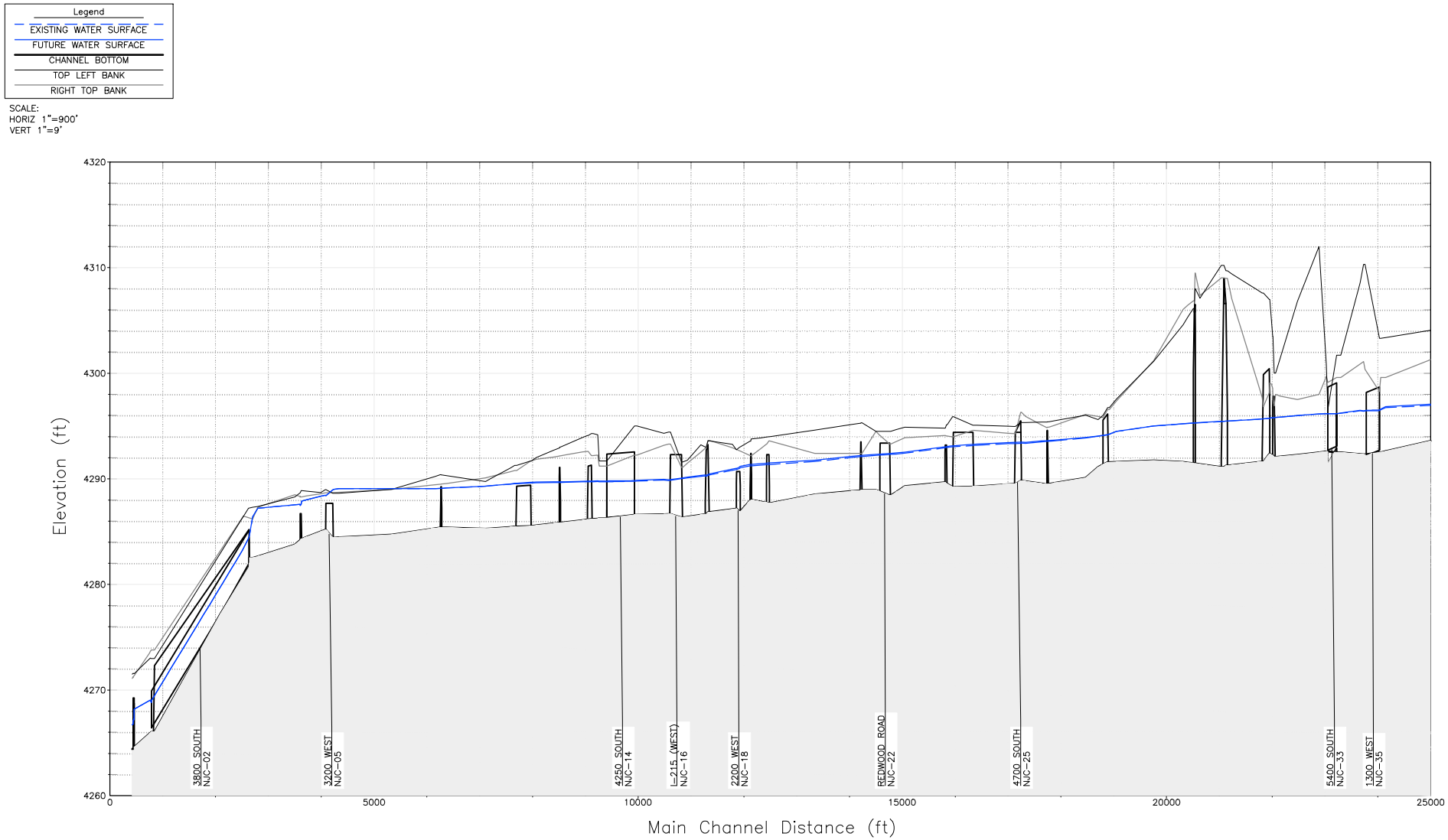

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FIGURE I-08
HYDRAULIC PROFILE OF NJC - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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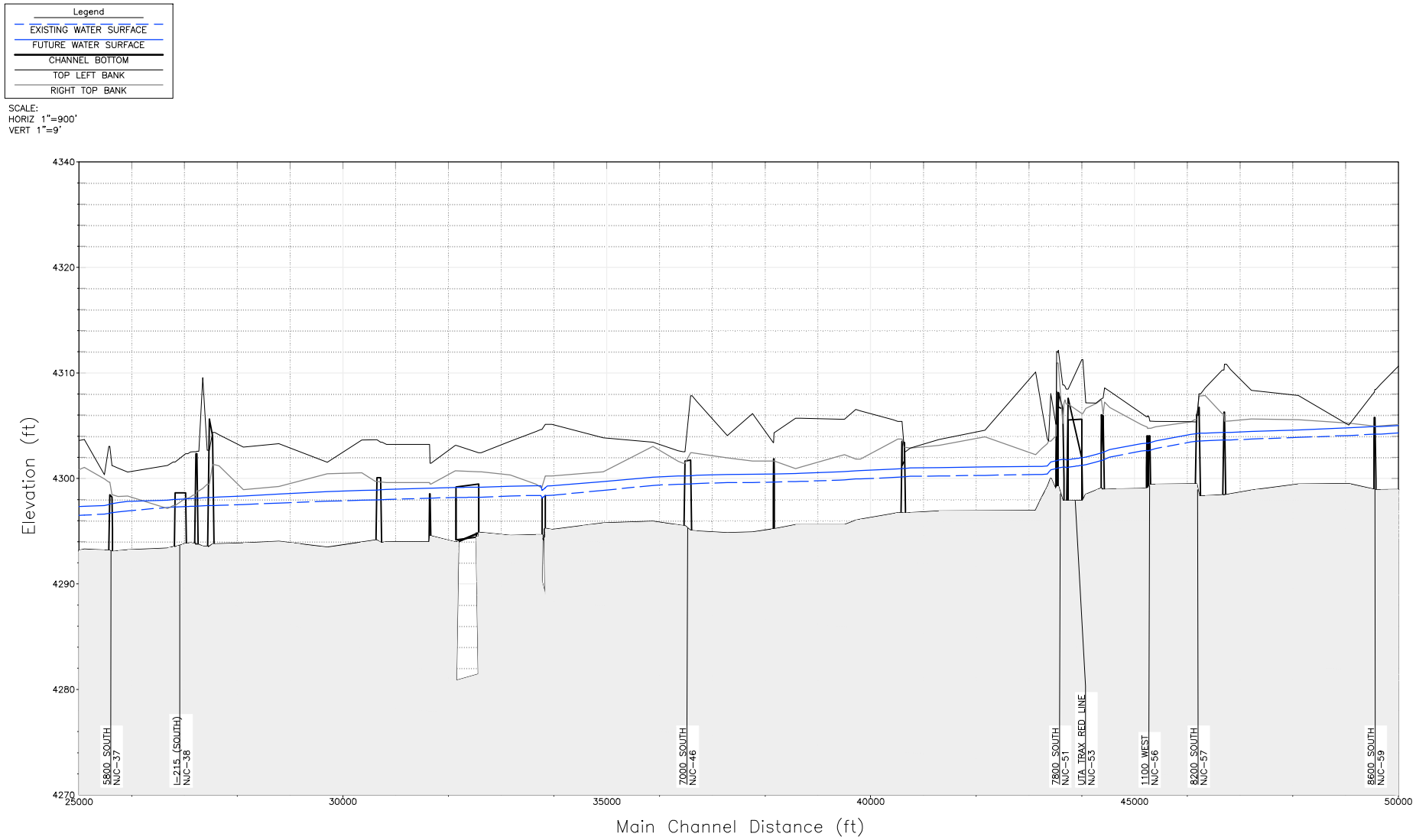

BOWEN COLLINS & ASSOCIATES

FIGURE I-08
HYDRAULIC PROFILE OF NJC - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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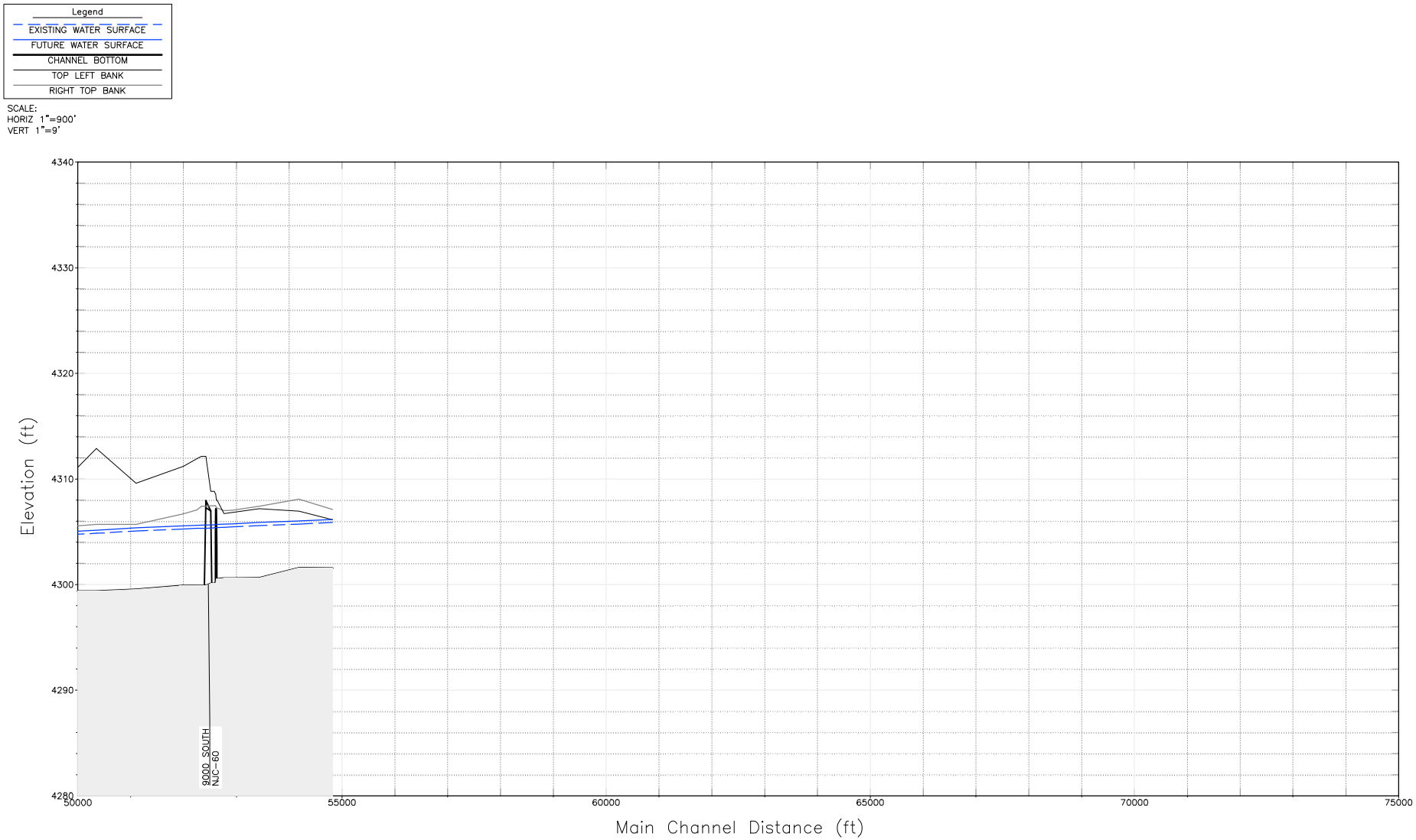

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FIGURE I-08
HYDRAULIC PROFILE OF NJC - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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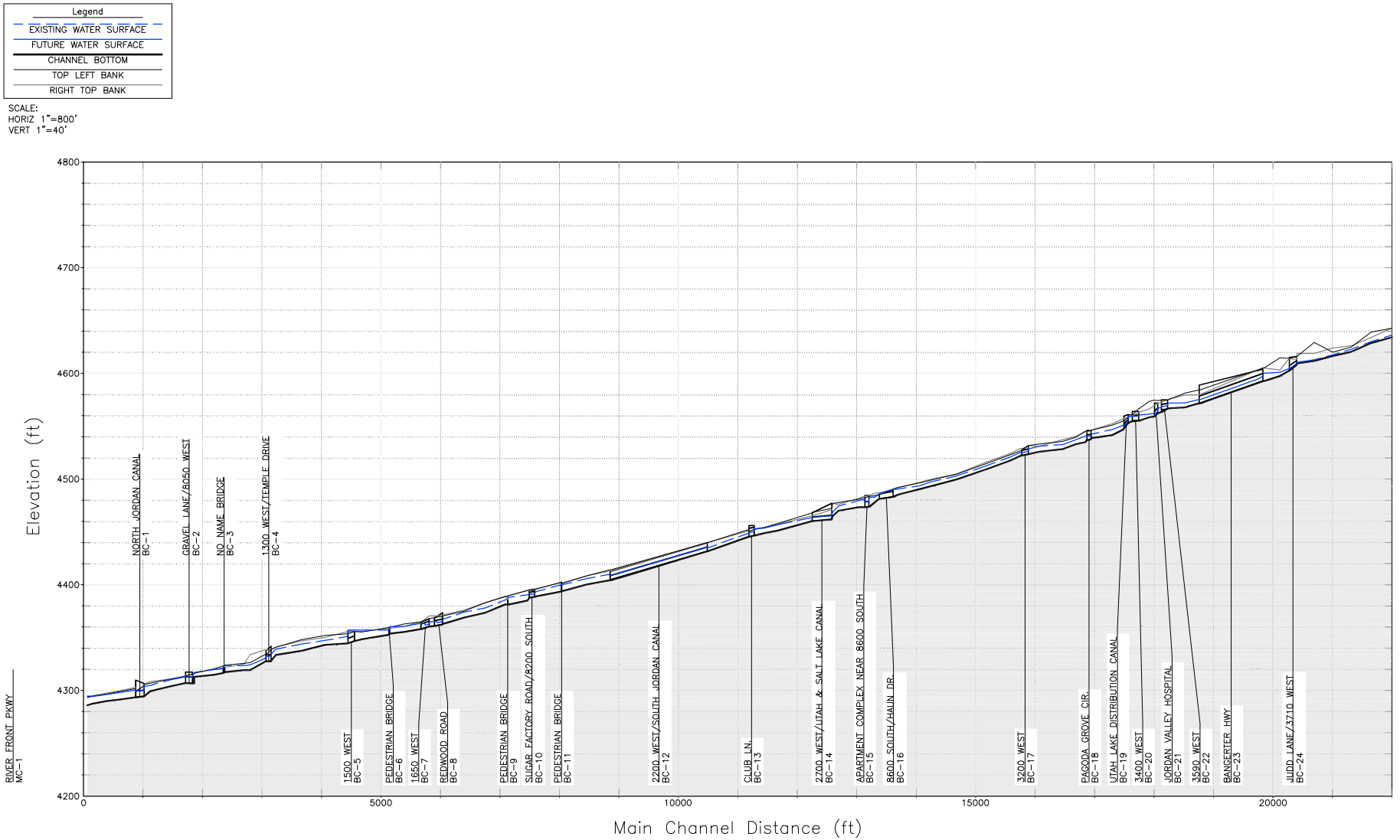

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FIGURE I-09
HYDRAULIC PROFILE OF BINGHAM CREEK - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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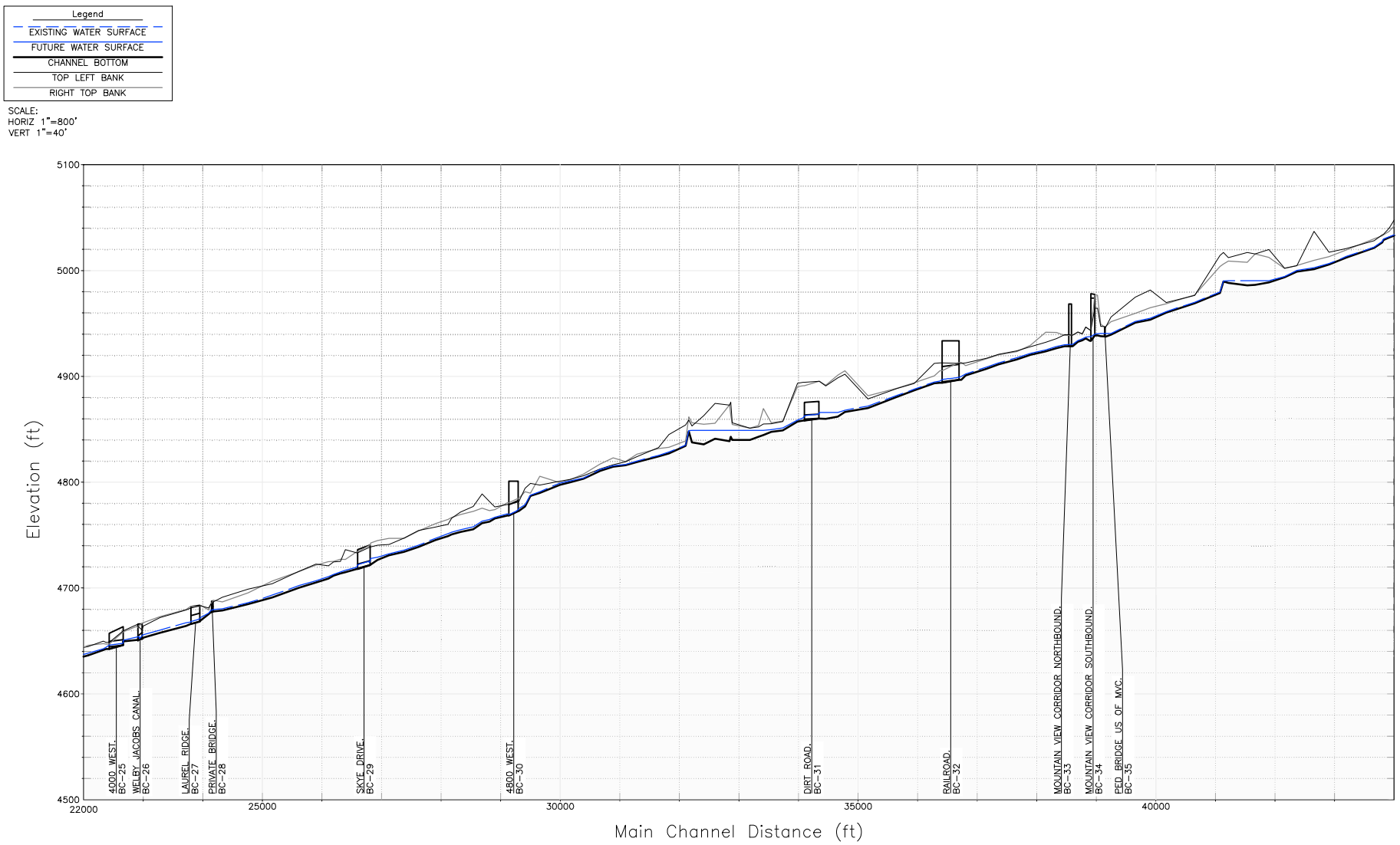

BOWEN COLLINS & ASSOCIATES

FIGURE I-09
HYDRAULIC PROFILE OF BINGHAM CREEK - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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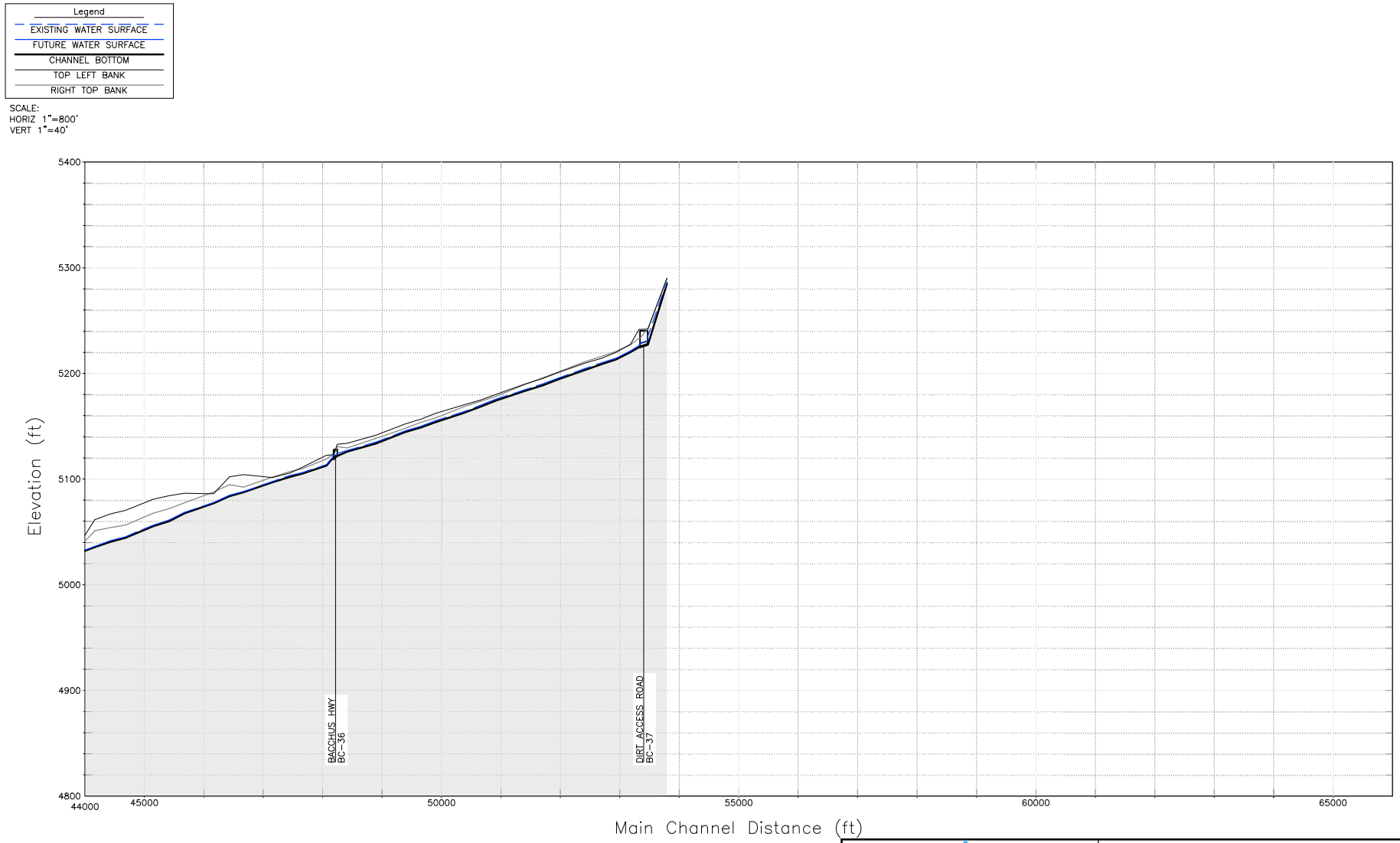

BOWEN COLLINS & ASSOCIATES

FIGURE I-09
HYDRAULIC PROFILE OF BINGHAM CREEK - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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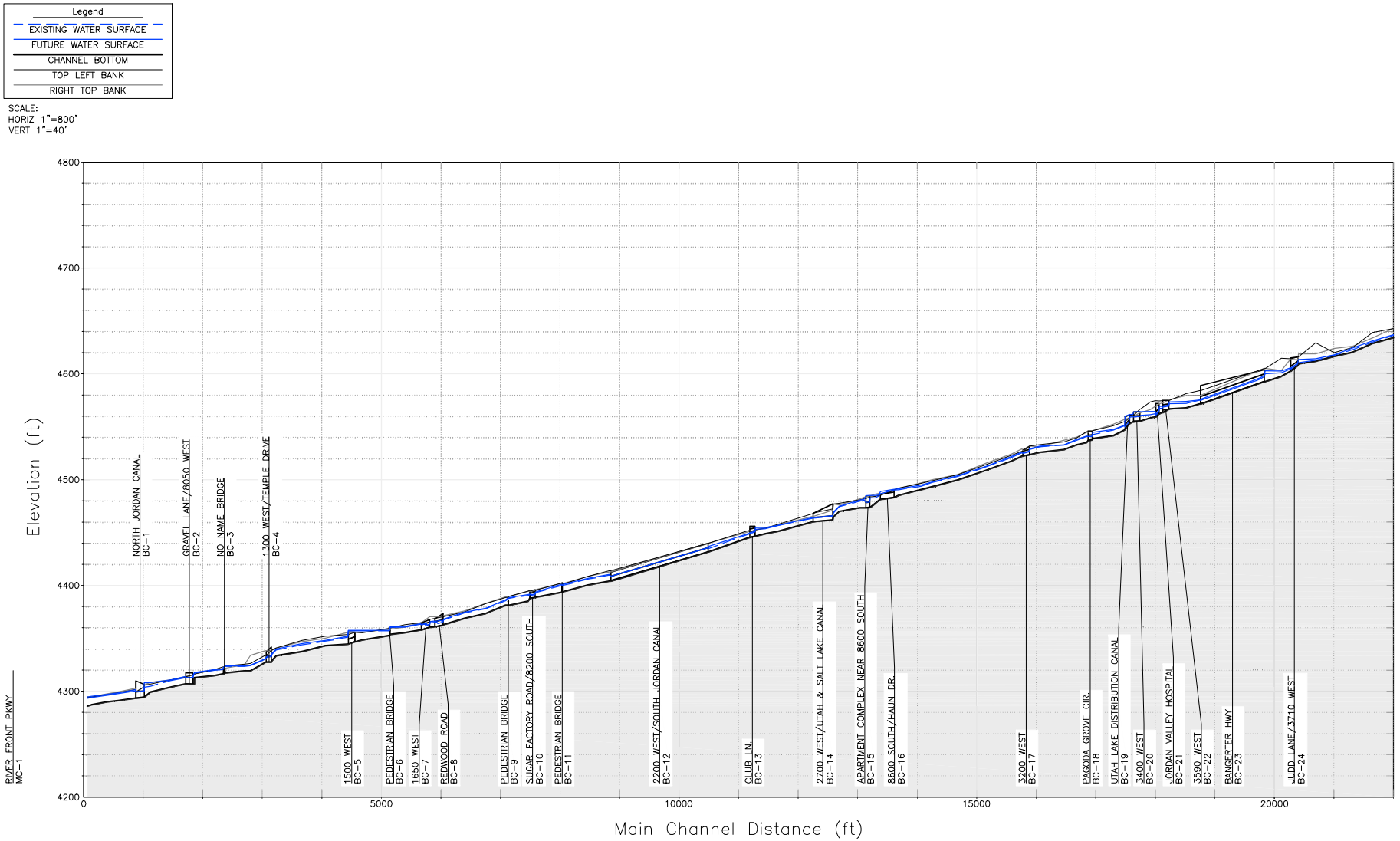

BOWEN COLLINS & ASSOCIATES

FIGURE I-10
HYDRAULIC PROFILE OF BINGHAM CREEK - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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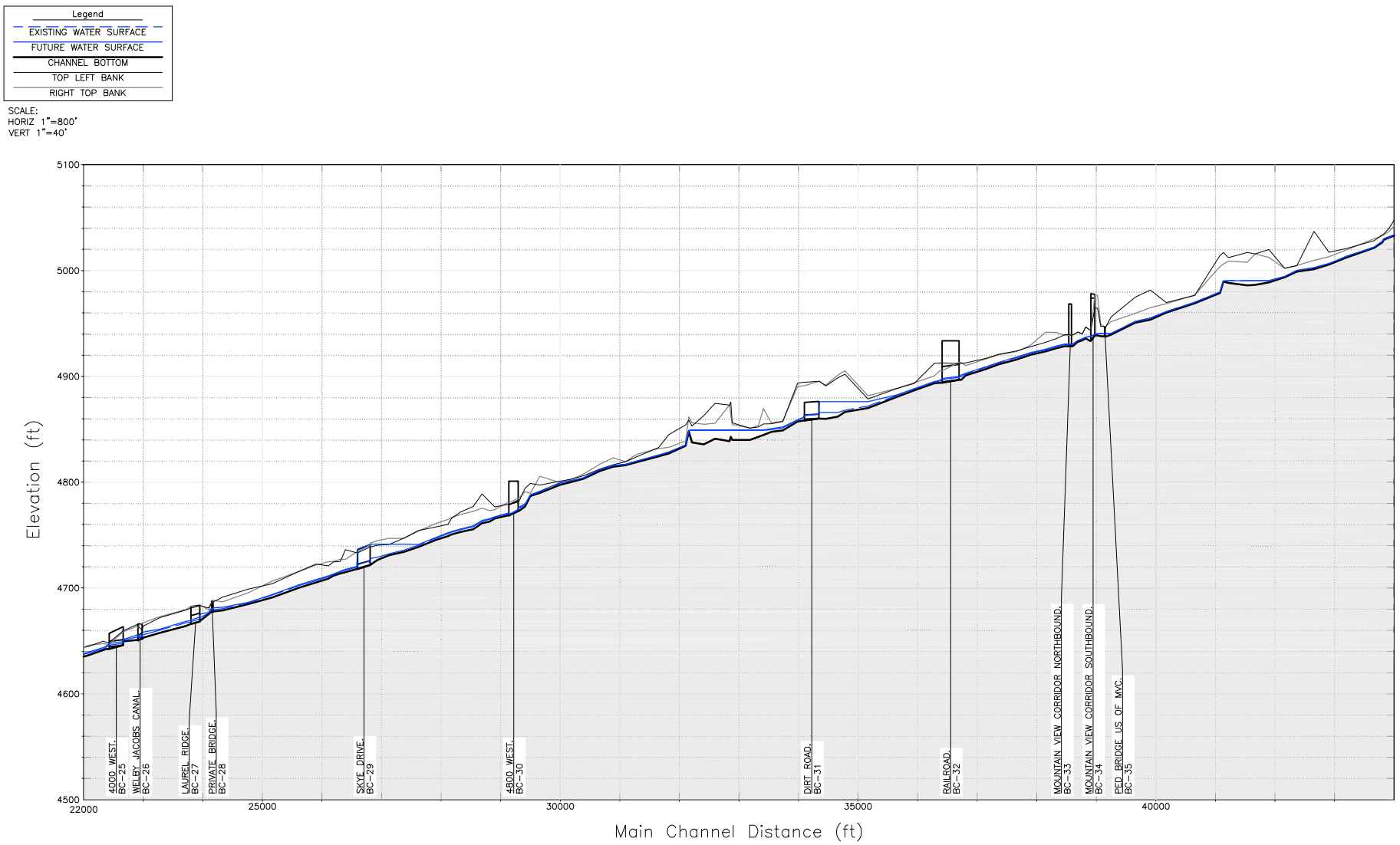

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FIGURE I-10
HYDRAULIC PROFILE OF BINGHAM CREEK - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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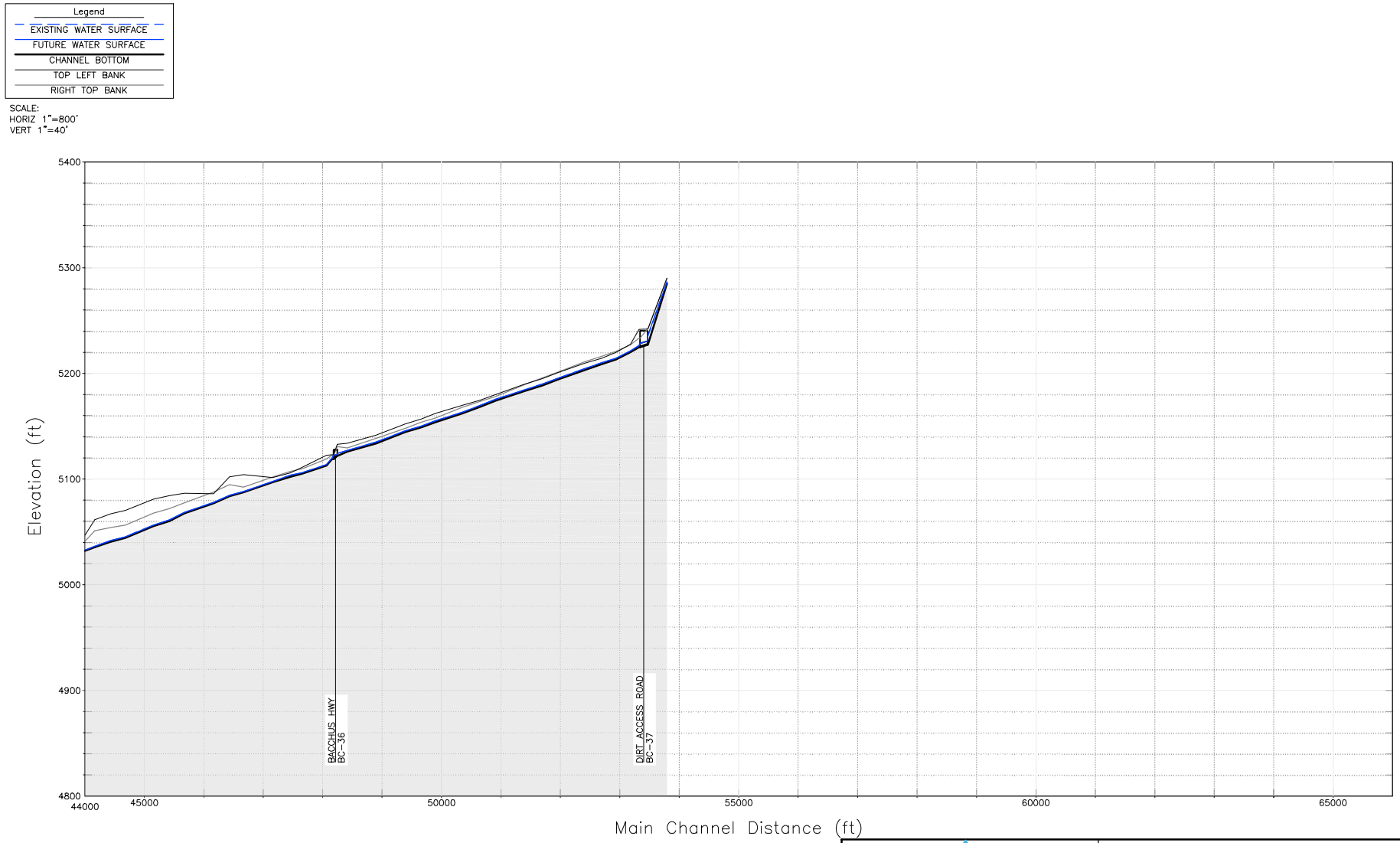

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FIGURE I-10
HYDRAULIC PROFILE OF BINGHAM CREEK - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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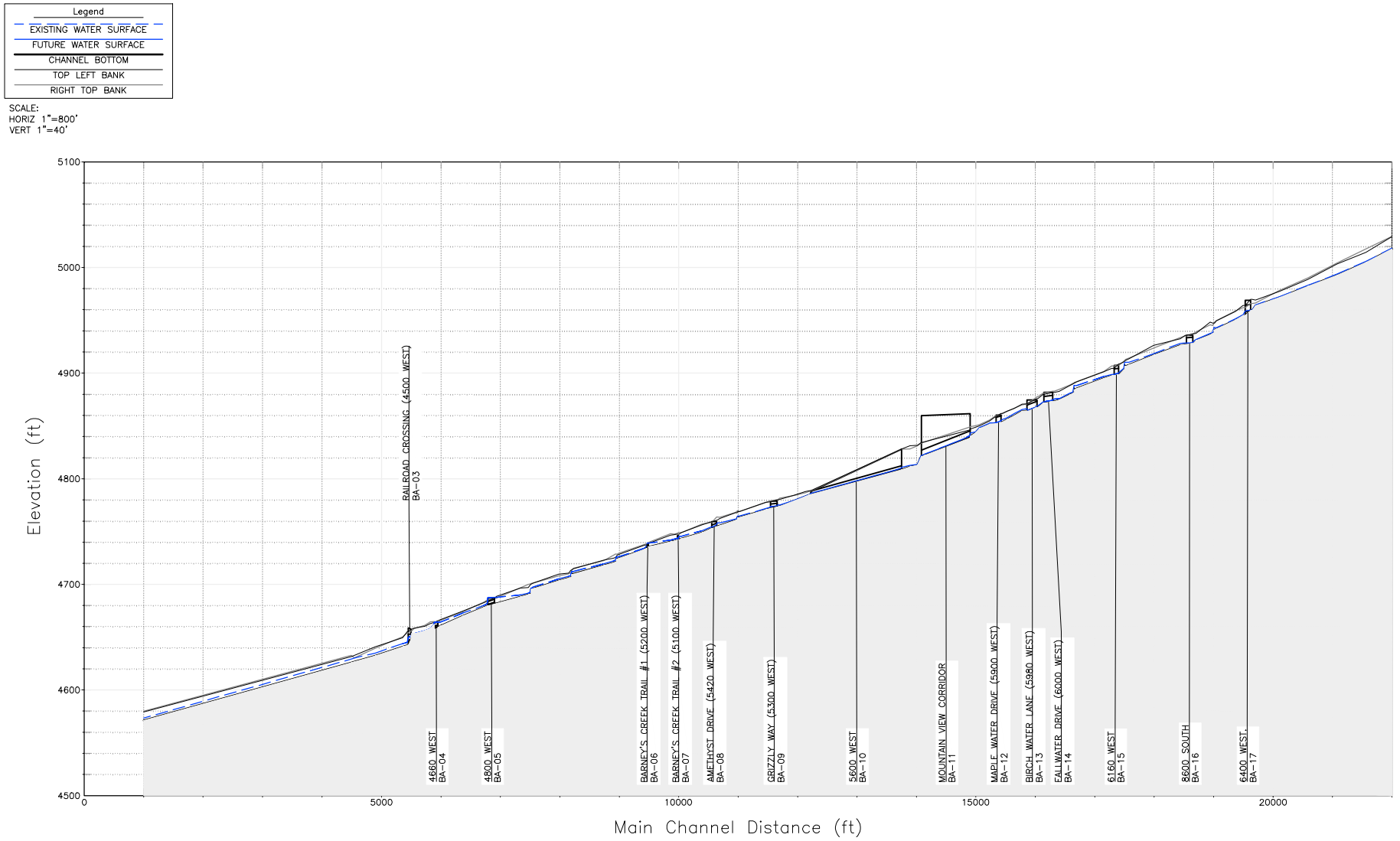

BOWEN COLLINS & ASSOCIATES

FIGURE I-11
HYDRAULIC PROFILE OF BARNEY'S CREEK - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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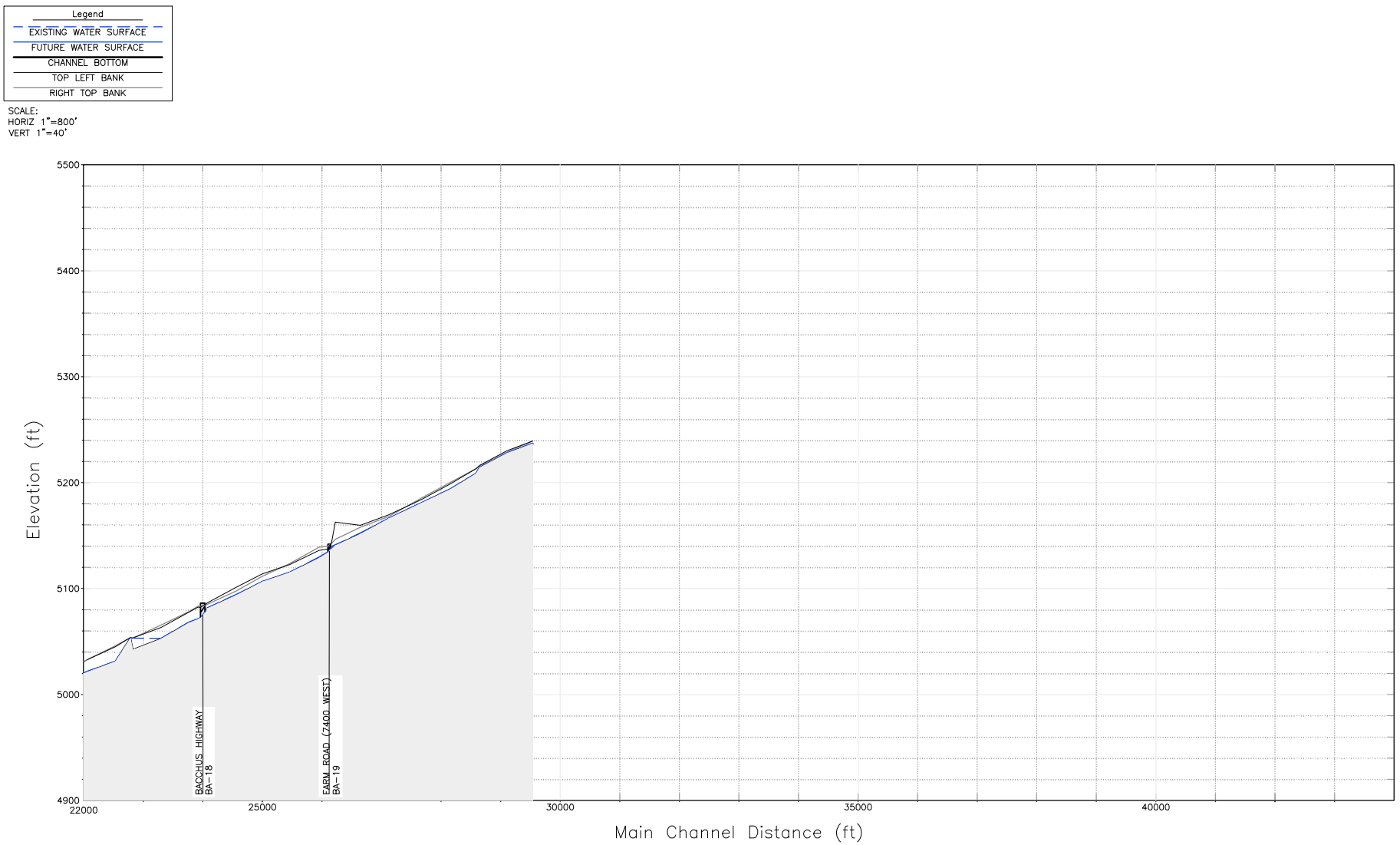

BOWEN COLLINS & ASSOCIATES

FIGURE I-11
HYDRAULIC PROFILE OF BARNEY'S CREEK - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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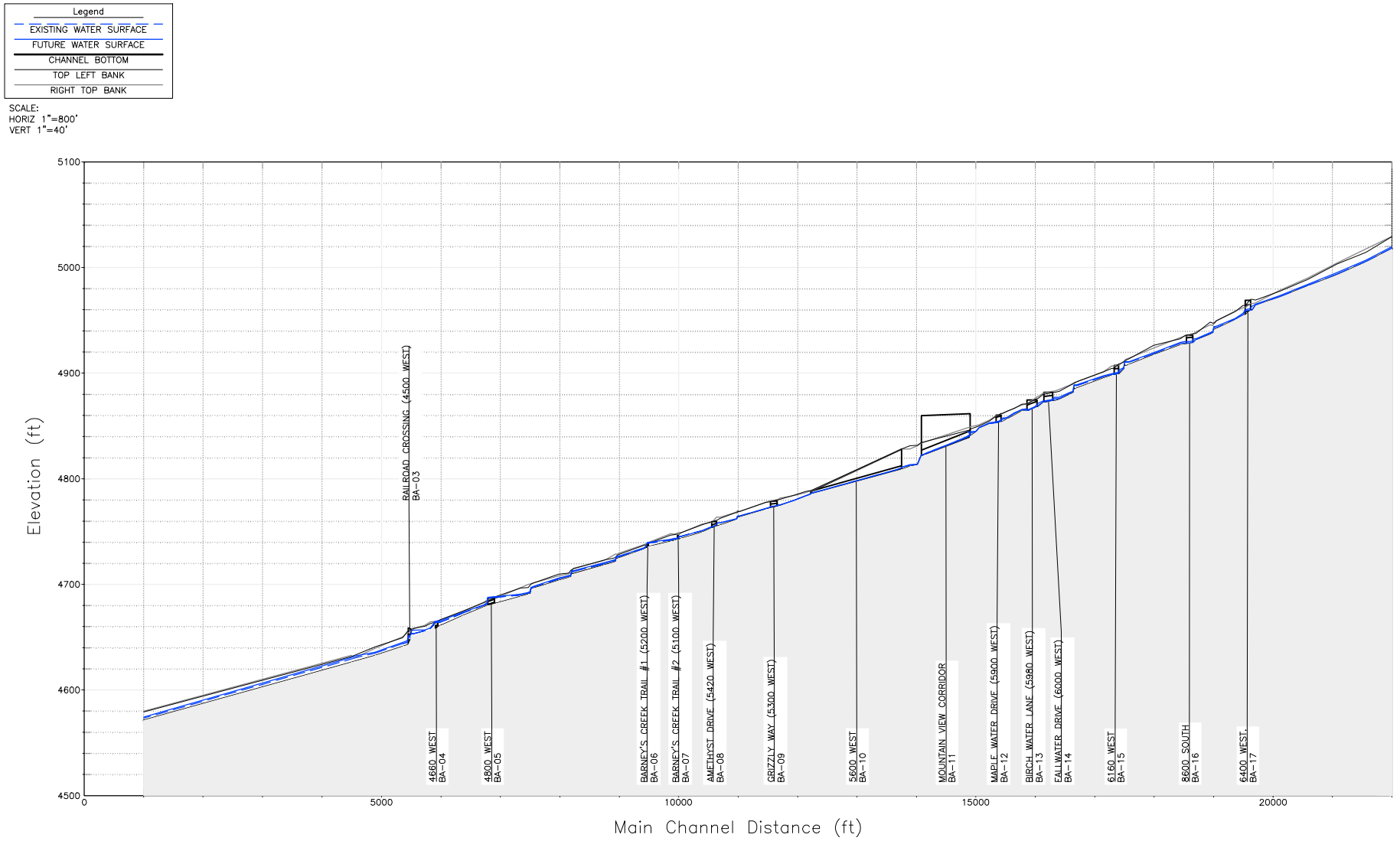

BOWEN COLLINS & ASSOCIATES

FIGURE I-12
HYDRAULIC PROFILE OF BARNEY'S CREEK - FUTURE 0.2 CFS-AC
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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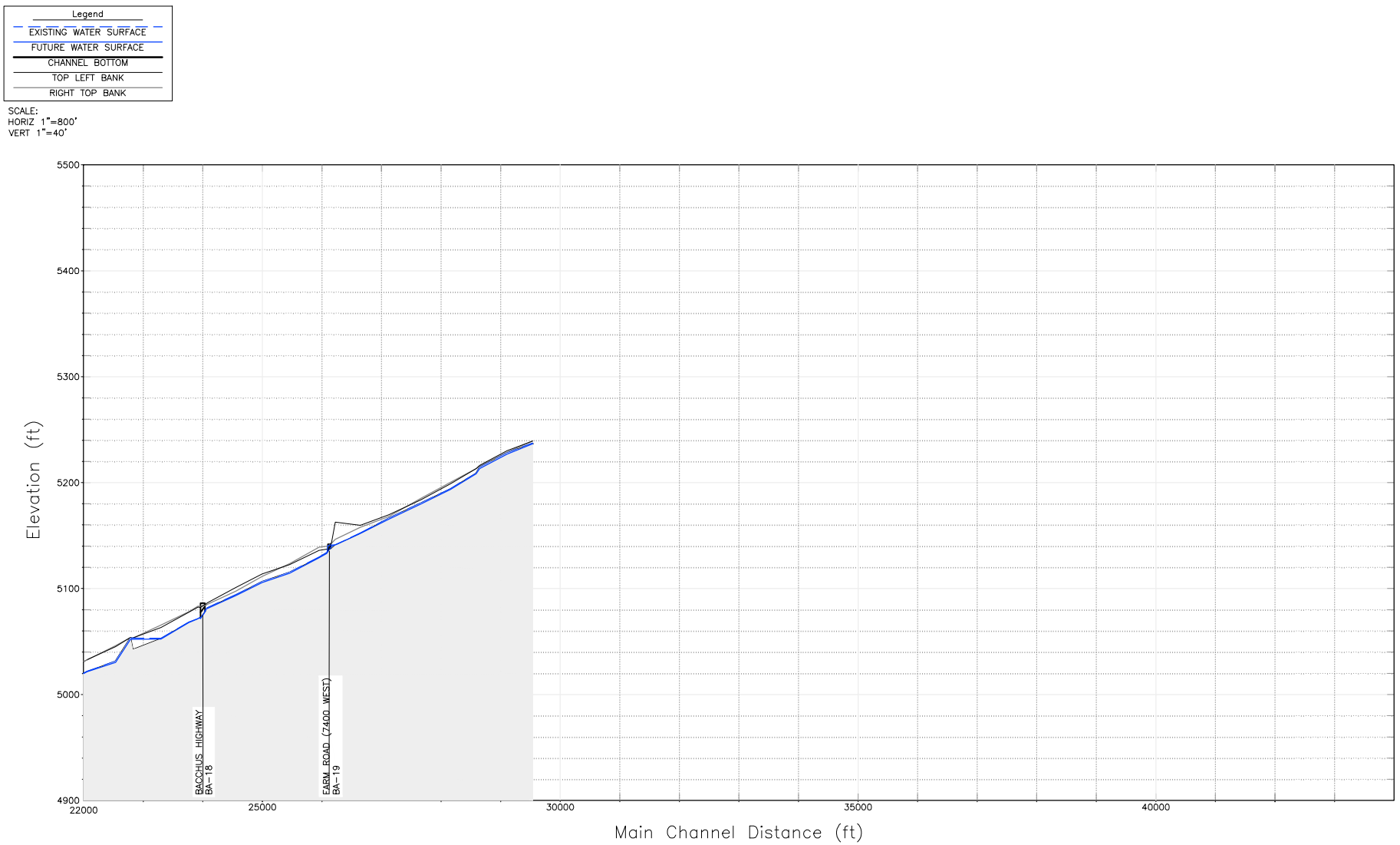
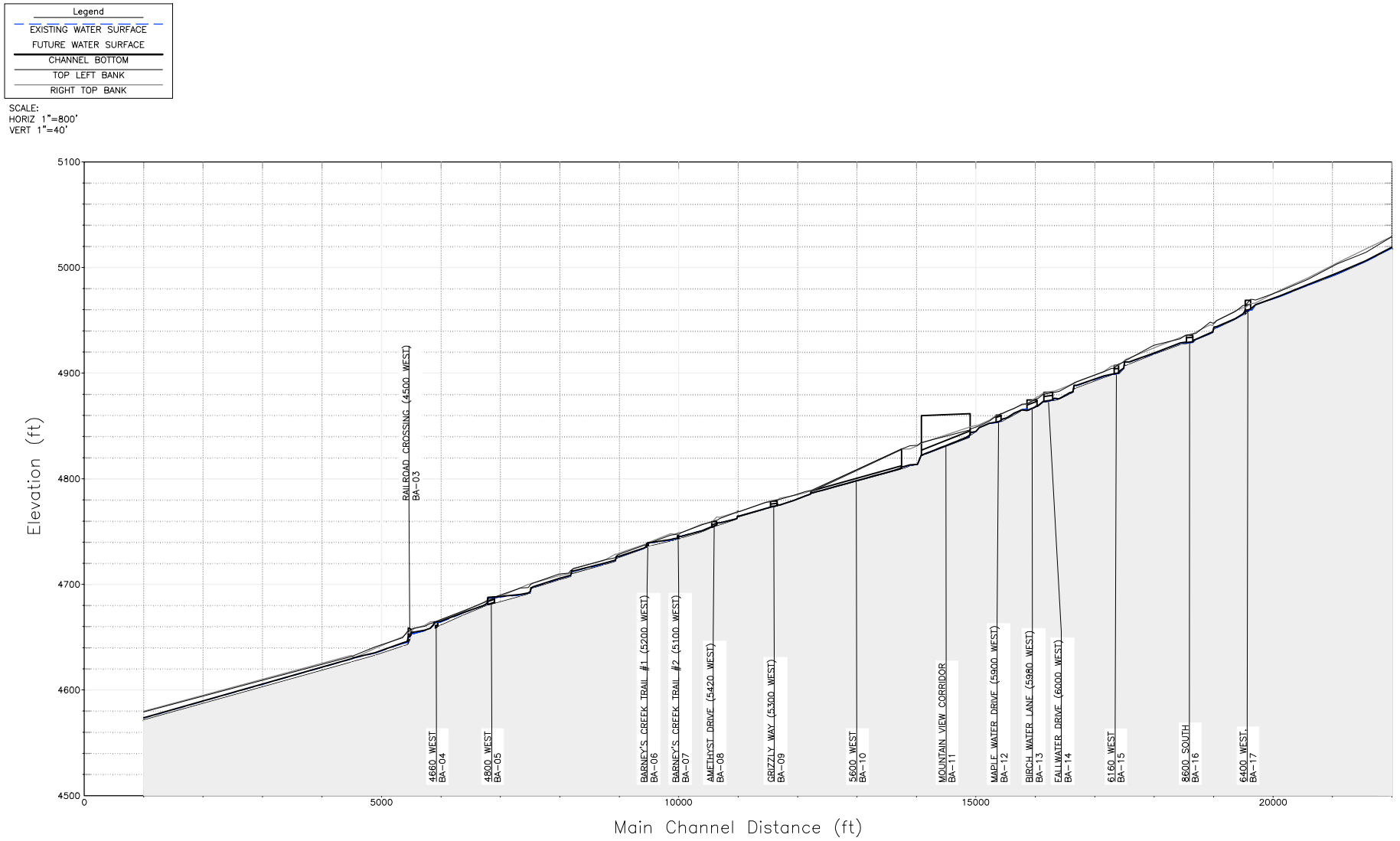


BOWEN COLLINS & ASSOCIATES

FIGURE I-12
HYDRAULIC PROFILE OF BARNEY'S CREEK - FUTURE 0.2 CFS-AC
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

P:\Salt Lake County\2019 Phase 2 – Southwest Canal and Creek Study\7.0 Profile Figures\Barneys Creek\Future Profile.dwg Plotted: 7/19/2022 11:57 AM By: Braxton Cook



BOWEN COLLINS & ASSOCIATES

FIGURE I-13
HYDRAULIC PROFILE OF BARNEY'S CREEK - FUTURE 0.02 CFS-AC
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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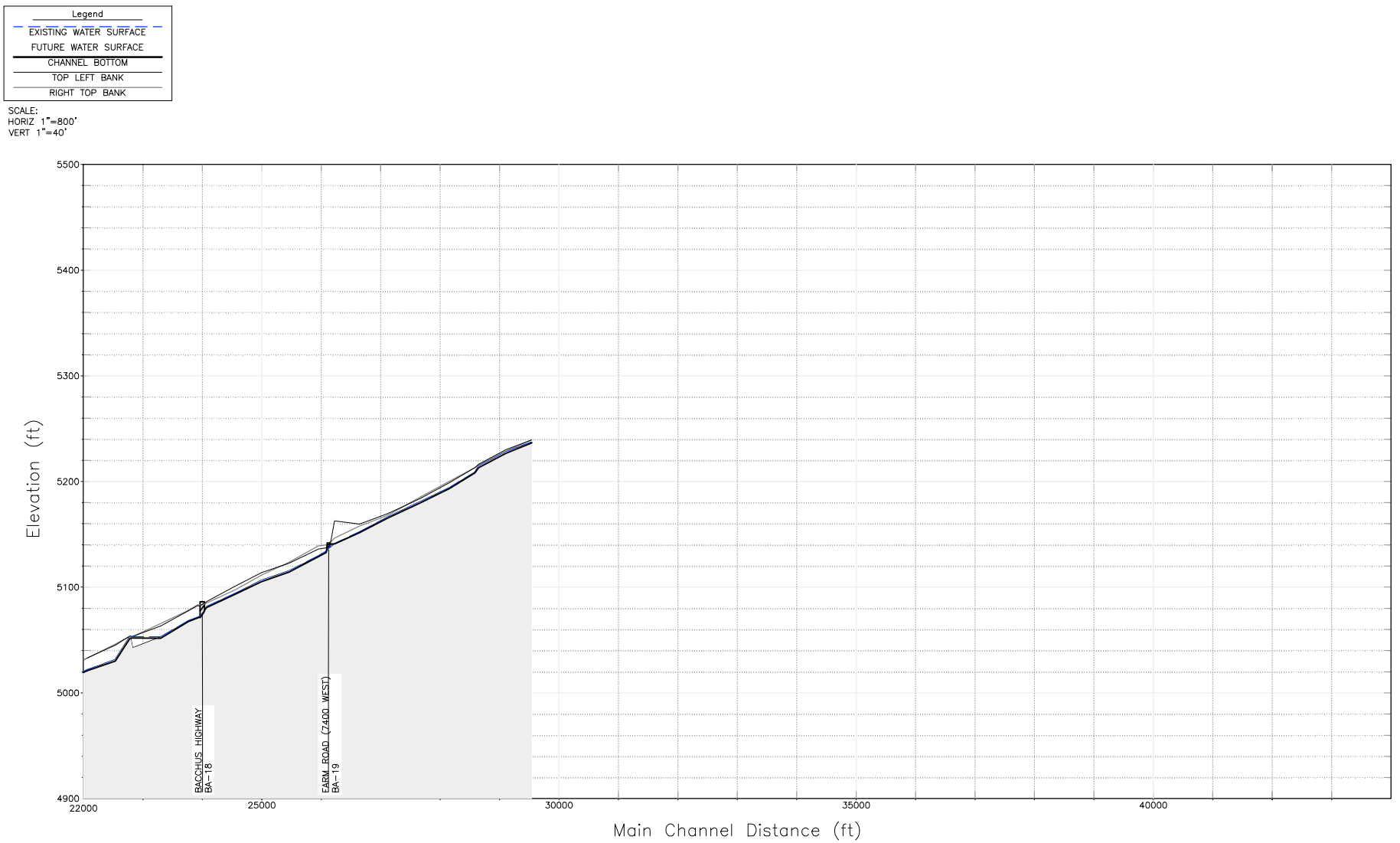

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FIGURE I-13
HYDRAULIC PROFILE OF BARNEY'S CREEK - FUTURE 0.02 CFS-AC
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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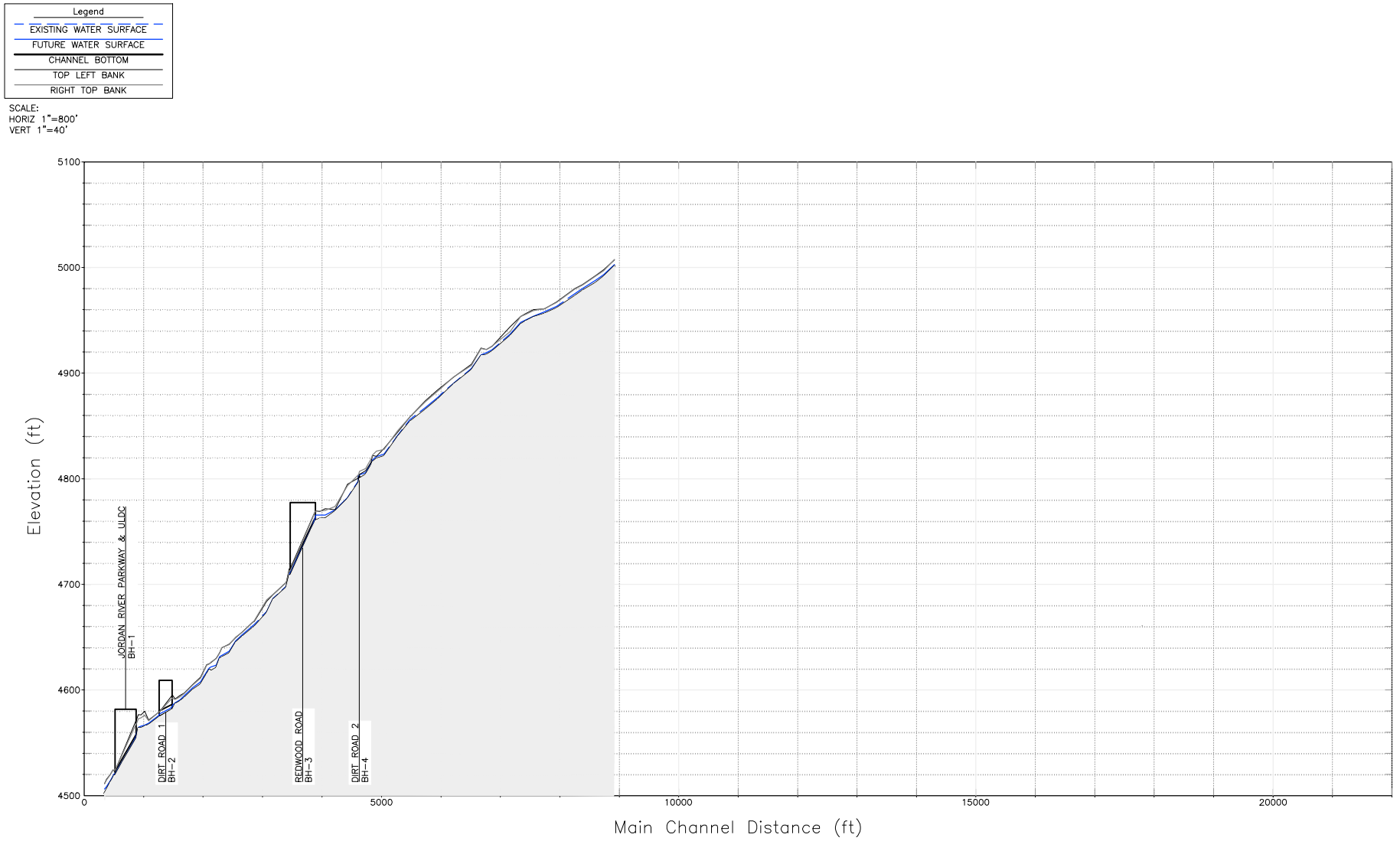

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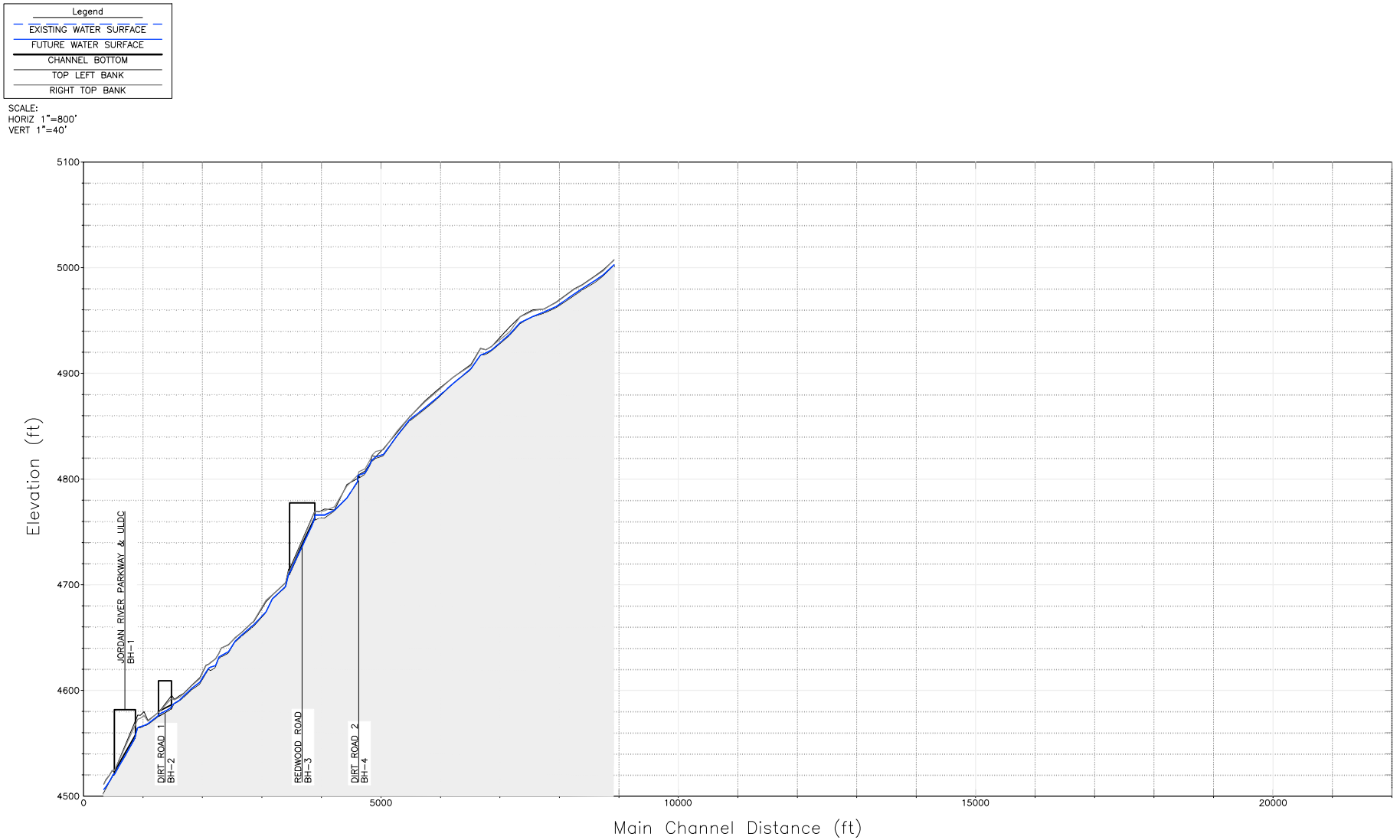
FIGURE I-14
HYDRAULIC PROFILE OF BEEF HOLLOW - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

P:\Salt Lake County\2019 Phase 2 – Southwest Canal and Creek Study\7.0 Profile Figures\Beef Hollow\Ex Profile.dwg Plotted: 7/19/2022 12:03 PM By: Braxton Cook



BOWEN COLLINS & ASSOCIATES

FIGURE I-15
HYDRAULIC PROFILE OF BEEF HOLLOW - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

P:\Salt Lake County\2019 Phase 2 – Southwest Canal and Creek Study\7.0 Profile Figures\Beef Hollow\Future Profile.dwg Plotted: 7/19/2022 12:04 PM By: Braxton Cook

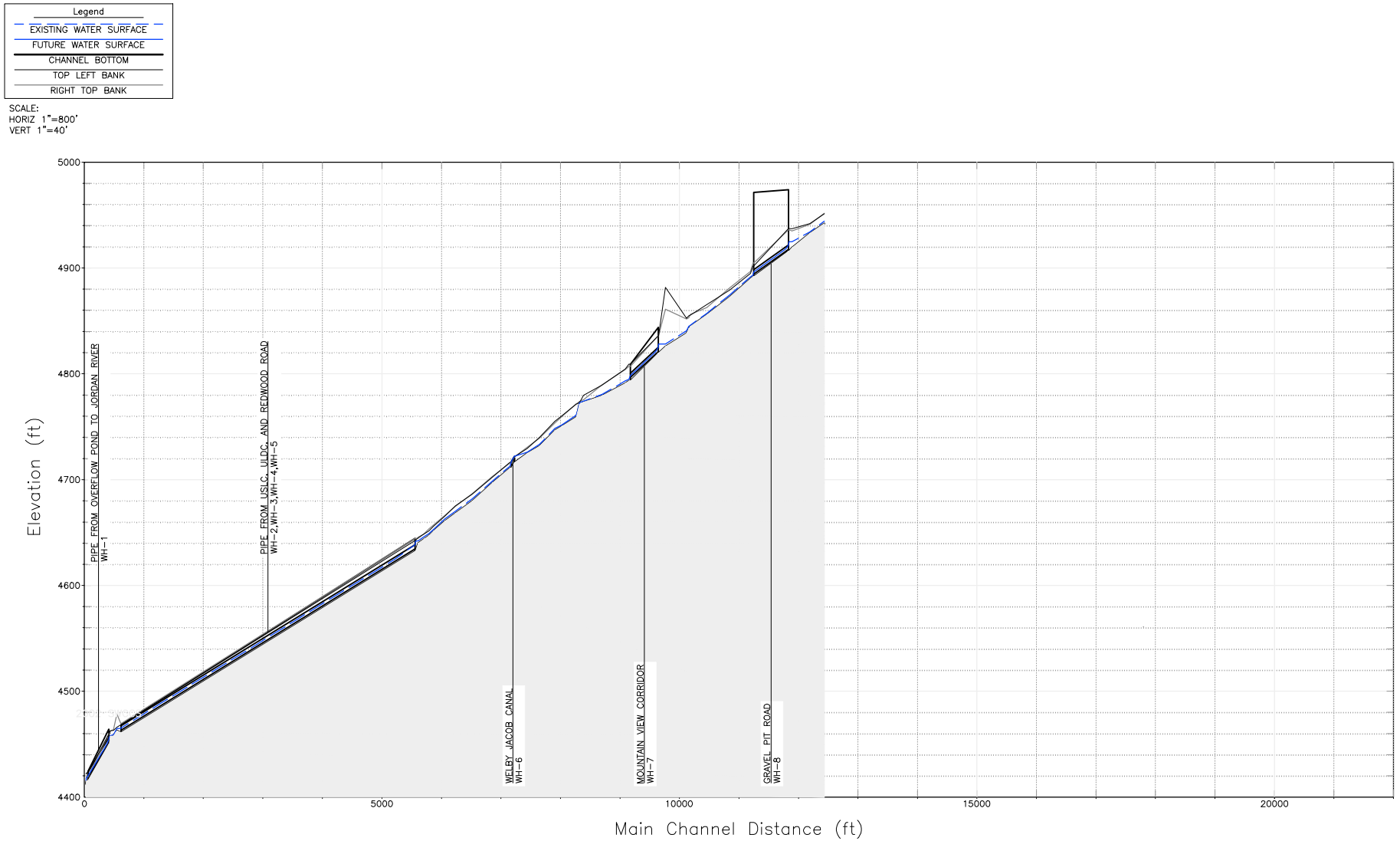


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FIGURE I-16
HYDRAULIC PROFILE OF WOOD HOLLOW - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

P:\Salt Lake County\2019 Phase 2 – Southwest Canal and Creek Study\7.0 Profile Figures\Wood_Hollow\Ex Profile.dwg Plotted: 7/19/2022 12:05 PM By: Braxton Cook

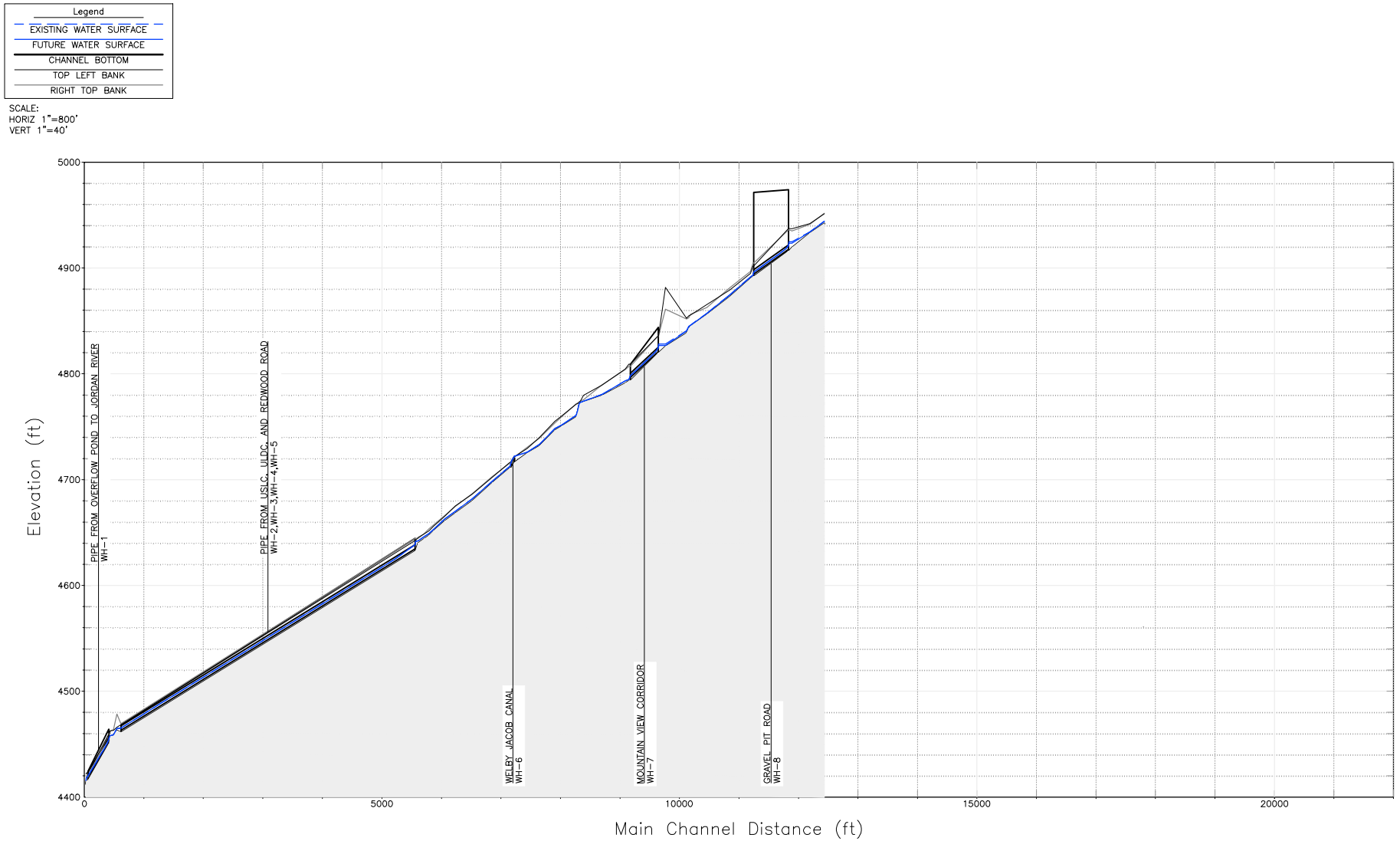

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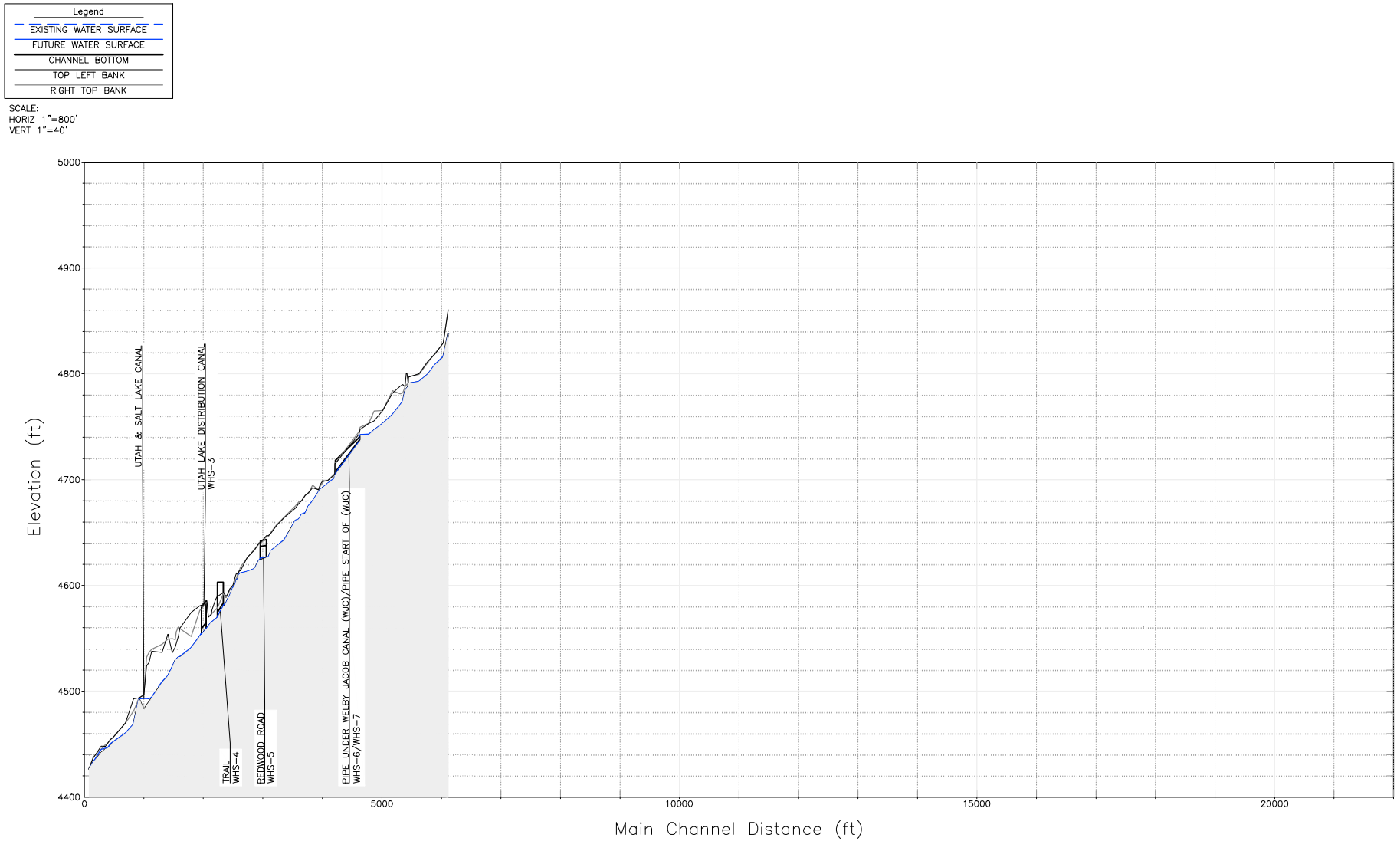
FIGURE I-17
HYDRAULIC PROFILE OF WOOD HOLLOW - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

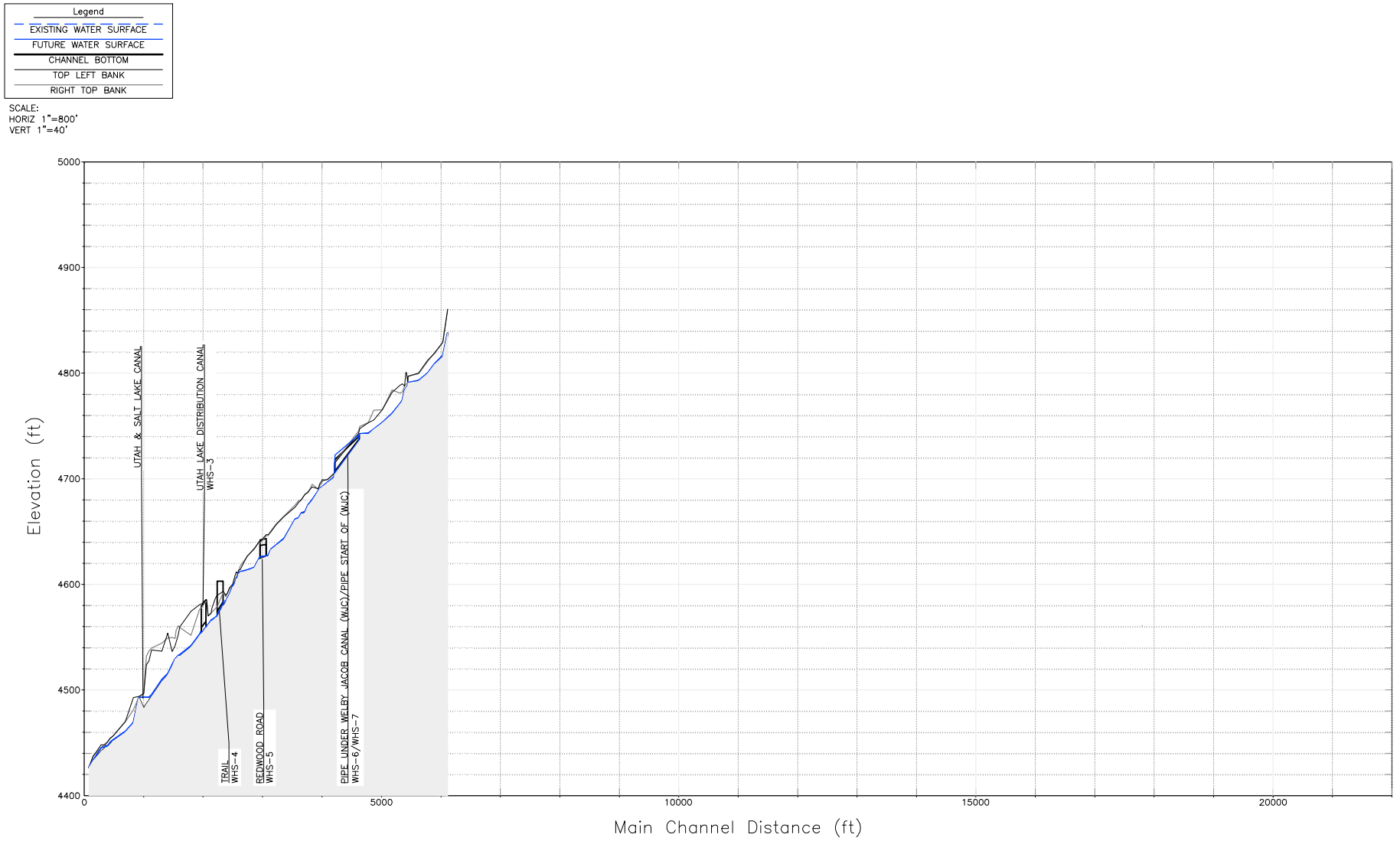
P:\Salt Lake County\2019 Phase 2 – Southwest Canal and Creek Study\7.0 Profile Figures\Wood_Hollow\Future Profile.dwg Plotted: 7/19/2022 12:06 PM By: Braxton Cook



BOWEN COLLINS & ASSOCIATES

FIGURE I-18
HYDRAULIC PROFILE OF WOOD HOLLOW SOUTH - EXISTING
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

P:\Salt Lake County\2019 Phase 2 – Southwest Canal and Creek Study\7.0 Profile Figures\Wood_Hollow_South\Ex Profile.dwg Plotted: 7/19/2022 12:12 PM By: Braxton Cook



BOWEN COLLINS & ASSOCIATES

FIGURE I-19
HYDRAULIC PROFILE OF WOOD HOLLOW SOUTH - FUTURE
SOUTHWEST CANAL AND CREEK STUDY
SALT LAKE COUNTY

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