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**WORK ORDER NO. 2022-4 COVER SHEET**

**CULINARY WATER SYSTEM MASTER PLAN AND IMPACT FEE FACILITIES PLAN**

TOQUERVILLE CITY  
212 TOQUER BLVD.  
PO BOX 27  
TOQUERVILLE, UT 84774

**EXECUTION AND EFFECTIVE DATE**

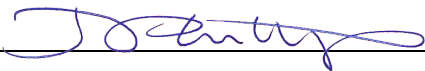
This Work Order No. 2022-4 has been executed by the duly authorized representatives of the parties and shall be effective as of the date of execution by CITY.

CONSULTANT

CITY

SUNRISE ENGINEERING, INC.

TOQUERVILLE CITY

By: 

By: \_\_\_\_\_

Name: Joseph K. Phillips, P.E.

Name: \_\_\_\_\_

Title: Vice President

Title: \_\_\_\_\_

Date: 12.14.22

Date: \_\_\_\_\_

## **WORK ORDER NO. 2022-4**

This Work Order is entered into by and between TOQUERVILLE CITY (CITY) and SUNRISE ENGINEERING, INC. (CONSULTANT).

### RECITAL

Pursuant to the Toquerville City Professional Services Agreement for Independent Contractors on Toquerville City Projects, executed between CITY and CONSULTANT and dated October 4, 2022, hereinafter referred to as the "Agreement", CITY and CONSULTANT desire to identify certain services and work to be performed by CONSULTANT pursuant to the Agreement. CITY intends to retain general engineering services for which CONSULTANT agrees to perform various professional engineering and planning services.

### ARTICLES

#### **ARTICLE 1. SCOPE OF WORK**

CITY is aware of several deficiencies and issues within its culinary water system and desires to have a useful master plan process completed which will provide an analysis according to the State of Utah Guidelines that will identify deficiencies and recommend improvements to the system. CONSULTANT will provide a Culinary Water Master Plan and Impact Fee Facilities Plan which includes the following Scope of Services.

1. Funding Procurement and Acquisition
  - a. Assist CITY in submitting a funding application to the Utah Drinking Water Board or other similar agency to fund or partially fund the cost of the planning effort.
2. Hold project kick-off meeting as well as regular coordination meetings with CITY staff.
  - a. Learn goals, specific concerns, deficiencies, expected growth areas, etc.
  - b. Provide progress updates and review findings and considerations.
3. Review past growth of culinary water system connections and estimate the number of new possible connections over a projected 20-year planning period. Consider growth that may occur as a result of proposed developments.
  - a. Coordinate with CITY to identify areas of potential growth and means to serve those areas.
4. Review and compile past water use data to update average usage. CONSULTANT will use metering data provided by CITY (3 years of data) to evaluate peak flows and peak instantaneous demands.
5. Assess the water source capacity currently developed and in use by CITY and estimate if that capacity is adequate for the planning period.
6. Assess the water storage capacity currently available to CITY and estimate if that capacity is adequate for the planning period.
7. Assess the culinary water treatment currently used by CITY and estimate if that capacity is adequate for the planning period.
8. Update CITY's water system model to include new growth demands.

- a. Evaluate the distribution system using the updated computer-generated hydraulic model to evaluate if the sizes of the existing lines are adequate for connections added throughout the planning period.
  - b. Model water pressure and fire flow within the existing system in accordance with the State of Utah Rules for Public Drinking Water Systems.
9. Provide a list of recommended improvements to meet deficiencies identified. The intent of this Master Plan is to recommend improvements that may be constructed by CITY to meet existing and future culinary water needs.
10. Provide an Engineer's Opinion of Probable Cost for recommended improvements to be constructed by CITY during a 10-year development horizon.
11. Review existing water rate structure and provide recommendations to comply with the proposed financing plan.
  - a. Review user rate revenue from the past three years to evaluate performance. Update user rate calculations for the current Culinary Water Master Plan.
  - b. Incorporate rate adjustments needed to account for rate increases.
12. Review connection fees and provide recommendations to meet needs pertaining to the culinary water connection.
  - a. Review existing connection fees and revenue.
13. Prepare a 20-year cashflow projection for the water system.
14. Prepare the analysis in report format and present to CITY.
  - a. Generate a Culinary Water Master Plan report from the tasks listed above, including conclusions and recommendations to CITY. Prepare the report in the form of an Impact Fee Facilities Plan. Submit one PDF copy of the Impact Fee Facilities Plan to CITY.
  - b. Attend one Toquerville City Council Meeting to present the Impact Fee Facilities Plan report to the City Council. Additional meetings will be additional services.
15. Prepare and recommend an Impact Fee for new improvements constructed to accommodate growth within the water system.
  - a. Prepare an Impact Fee Analysis in accordance with the requirements of the Utah Impact Fee Act.
16. The following services are excluded from the Scope of Work but may be included if requested by CITY. If such additional services are requested, CONSULTANT will invoice for such services at the rates and fees given in the attached Exhibit A.
  - a. Evaluation of secondary water system factors relating to the culinary water system, where such considerations are not specifically defined in this Scope of Work.
  - b. Once growth rates have been established and calculations made for culinary water demands, additional modifications to these growth rates requiring re-work on the water model and other calculations.
  - c. Consideration of custom fire flow requirements at specific locations.
  - d. Revisions resulting from the City Council meetings or from coordination with other entities (i.e., Southern Utah Home Builder's Association (SUHBA), etc.).
  - e. Meetings and coordination with CITY or other entities after the report has been presented to the City Council.

## **ARTICLE 2. COMPENSATION**

CITY agrees to compensate CONSULTANT for services listed in Article 2, Items 1-15 of Work Release 2022-4, for the lump sum amount of Fifty-Nine Thousand, Eight Hundred Dollars (\$59,800). These payments shall be considered complete compensation for all engineering services outlined in this agreement.

Additional services listed in Article 2, Item 16, if directed by CITY, will be performed at the rates and fees shown in the attached Exhibit A. Other items not listed above, may be requested in writing by CITY.

CONSULTANT will submit monthly itemized billings for this work, which will be due and payable within 30 days of receipt thereof by the CITY.

## **ARTICLE 3. INVOICING**

Instructions and invoices submitted pursuant to this Work Order shall be sent to:

TOQUERVILLE CITY  
212 TOQUER BLVD.  
PO BOX 27  
TOQUERVILLE, UT 84774

Invoices shall be submitted monthly based on the prior month's effort and are due and payable within (30) thirty days.

**SUNRISE ENGINEERING  
FEE SCHEDULE  
EXHIBIT A**

<b>WORK CODE</b>	<b>WORK CLASSIFICATION</b>	<b>HOURLY RATE</b>	<b>WORK CODE</b>	<b>WORK CLASSIFICATION</b>	<b>HOURLY RATE</b>
101	Engineer Intern (E.I.T.) I	\$117	456	Training Manager	\$179
102	Engineer Intern (E.I.T.) II	\$129	460	Training Director	\$203
103	Engineer Intern (E.I.T.) III	\$139	500	Funding Specialist	\$148
104	Engineer III	\$149	510	Plan Reviewer	\$132
105	Engineer IV	\$169	511	Building Inspector I	\$77
106	Engineer V	\$192	512	Building Inspector II	\$102
107	Senior Engineer	\$205	513	Building Inspector III	\$128
110	Principal Engineer	\$218	525	Building Official	\$148
121	Electrical Engineer Intern (E.I.T.) I	\$132	601	GIS Tech	\$79
122	Electrical Engineer Intern (E.I.T.) II	\$148	602	GIS Tech II	\$98
123	Electrical Engineer III	\$169	611	GIS Specialist I	\$125
124	Electrical Engineer IV	\$193	613	GIS Analyst	\$149
125	Electrical Engineer V	\$220	614	GIS Programmer	\$160
126	Principal Electrical Engineer	\$235	615	GIS Team Leader	\$165
301	Engineering Tech I	\$83	51	Administrative I	\$47
302	Engineering Tech II	\$100	52	Administrative II	\$63
303	Engineering Tech III	\$115	53	Administrative III	\$78
304	Engineering Tech IV	\$142	96	Public Information Manager	\$133
311	Electrical Tech I	\$102	701	Planner I	\$97
312	Electrical Tech II	\$118	702	Planner II	\$113
313	Electrical Tech III	\$138	703	Planner III	\$128
314	Electrical Tech IV	\$152	704	Planner IV	\$143
315	Electrical Tech V	\$169	705	Planner V	\$159
351	Construction Observer I	\$73	712	Project Manager II	\$199
352	Construction Observer II	\$90	723	Water Rights Specialist III	\$148
353	Construction Observer III	\$105	921	Survey Tech	\$91
354	Construction Observer IV	\$121	930	Survey CAD Tech	\$142
401	CAD Drafter I	\$84	935	One Man Survey Crew	\$169
402	CAD Drafter II	\$95	940	Survey Manager	\$179
403	CAD Drafter/Designer III	\$107	945	Registered Surveyor	\$193
404	CAD Drafter/Designer IV	\$121	950	Principal Surveyor	\$214
451	Training Specialist I	\$148			

**REIMBURSABLE EXPENSE SCHEDULE**

<b>Expense</b>	<b>Rate</b>	<b>Mark-Up</b>
Mileage	\$0.59 per mile	N/A
Field Vehicle (on site)	\$60 per day	N/A
Per Diem Meals	\$57 per day	N/A
Troxler Nuclear Density Gauge	\$50 per day	N/A
High Density Scanner	\$175 per hour	N/A
Material Testing Lab Work	Actual Cost	15%
Outside Consultants, Aerial Photography, etc.	Actual Cost	15%
Lodging	Actual Cost	10%
Other Expenses incurred	Actual Cost	10%

Fees automatically change after the beginning of the year and are subject to change on other occasions.

STG 01-2023