

RESOLUTION NO. 1492

A RESOLUTION OF THE CITY OF DAYTON, COLUMBIA COUNTY, WASHINGTON AUTHORIZING THE AGREEMENT FOR GIS SERVICES TASK ORDER 2022-01 WITH ANDERSON PERRY & ASSOCIATES, INC FOR HIGH ACCURACY WATER SYSTEM INVENTORY WORK AND, AUTHORIZE THE MAYOR TO EXECUTE SAID AGREEMENT.

WHEREAS, City staff, as part of the 2022 Budget, requested funding to utilize GIS as a means to assist in cost savings resulting from greater efficiency, improve decision making processes, expand communication efforts, and maintain historical data; and,

WHEREAS, the 2022 Budget authorized by the Dayton City Council on December 1, 2021, provides funding for GIS Services.

NOW, THEREFORE, CITY COUNCIL OF THE CITY OF DAYTON, WASHINGTON, DOES HEREBY RESOLVE AS FOLLOWS:

SECTION 1. The City Council hereby awards the contract for professional services for GIS Services to Anderson Perry & Associates, Inc. incorporated hereto as Attachment "A". TASK ORDER 2022-01 , as per MRSC Small Works Roster contractors list.

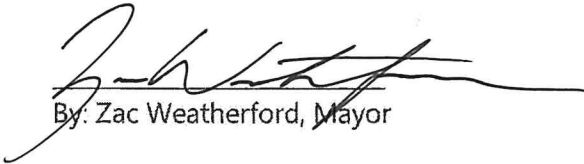
SECTION 2. The Mayor is hereby authorized to execute the agreement on behalf of the City of Dayton. The Mayor and his designee(s) are hereby authorized to implement such administrative procedures as may be necessary to carry out the directions of this legislation.

SECTION 3. This Resolution shall take effect and be in full force upon its approval.

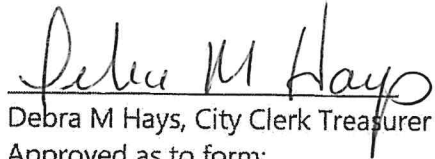
ADOPTED by the City Council of the City of Dayton, Washington on this ____14th ____

day of _____ June _____, 2022.

City of Dayton


By: Zac Weatherford, Mayor

Attested/Authenticated By:


Debra M Hays, City Clerk Treasurer
Approved as to form:


Quinn Plant, City Attorney

TASK ORDER 2022-01

CITY OF DAYTON, WASHINGTON High Accuracy Water System Inventory

This Task Order shall be attached to and become a permanent part of the Agreement for Engineering Services entered into by and between the City of Dayton (CITY) and Anderson Perry & Associates, Inc. (ENGINEER) on June 14, 2022.

SCOPE OF WORK

The work under this Task Order consists of completing a high accuracy inventory of the CITY's water system assets. A detailed Scope of Services is included in Exhibit A.

COMPENSATION

The CITY will compensate the ENGINEER for performing the services outlined in this Task Order on a time and materials basis, plus direct reimbursable expenses not to exceed \$20,000 and pursuant to the ENGINEER's current Hourly Fee Schedule (Exhibit B).

This Task Order is executed on the date shown below.

CITY: City of Dayton
By: _____
Name: Zac Weatherford
Title: Mayor
Date: _____

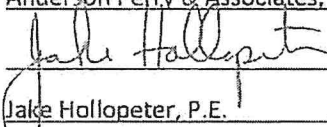
ENGINEER: Anderson Perry & Associates, Inc.
By: 
Name: Jake Hollopeter, P.E.
Title: Vice President
Date: June 14, 2022



EXHIBIT A
SCOPE OF SERVICES AND FEE ESTIMATE
June 14, 2022

BACKGROUND

The Scope of Services described below outlines Anderson Perry & Associates, Inc.'s (ENGINEER) technical approach and estimated fees to conduct a high-accuracy GNSS asset inventory of the City of Dayton's (CITY) "top-level" water assets. With assistance from the CITY, the ENGINEER will use state-of-the-art high-accuracy GPS (GNSS) technology and equipment to collect centimeter accuracy X, Y, and Z values for each asset, and when applicable, take detailed photographs. Once completed, the ENGINEER will work with the CITY to determine pipe connectivity and, by referencing the top-level assets, delineate the CITY's pipes for the water system.

On behalf of the CITY, and as a member of the Esri Partner Network, the ENGINEER will complete a high-accuracy GNSS asset inventory of the CITY's water system and delineate the pipe network.

Task 1: Project Management/Quality Control

This task encompasses project initiation, planning, execution, quality control, and monitoring for each of the following tasks are executed according to plan, meet the project requirements, and are delivered on time and on budget. For purposes of this Scope of Services, Rusty Merritt, GIS Department Manager, will serve as the ENGINEER's designated project manager and Ryan Paulson, Public Works Director, will serve as the CITY's primary point of contact.

Task 2: High-Accuracy Water System Asset Inventory

Recent advancements in GIS/GPS technology position the CITY to benefit from using ArcGIS Online with a high-accuracy GNSS unit to obtain real-time centimeter accuracy positions. The ENGINEER will travel on site and, using the CITY's existing ArcGIS Online Account and hosted feature services, collect the X, Y, and Z coordinates for the CITY's water system assets. The budget for this task includes high-accuracy GPS data collection of the following assets:

- Hydrants
- Hydrant valves
- System valves
- Control valves

This task includes a total of **five days** of field data collection using the ENGINEER's high-accuracy GPS unit at \$30 per hour and staff time. It is assumed that the CITY will provide support personnel when the ENGINEER is performing data collection (e.g., aiding in finding buried assets and providing as-needed traffic control).

Note: Due to the high number of water meters, meters will not be inventoried during this task. However, the ENGINEER will train the CITY's staff on the use of Esri's Field Maps with smart devices to collect meter locations and descriptive information.



CITY OF DAYON, WASHINGTON
HIGH ACCURACY WATER SYSTEM INVENTORY

Task 3: Delineate Water Pipes to High-Accuracy Positions

Upon completion of Task 1, the ENGINEER will use the GNSS positions and historical AutoCAD drawings to reconcile the existing pipe network to observed GNSS positions. The ENGINEER will then prepare a large format map for the CITY to markup and communicate any corrections and updates. The ENGINEER will use the map to modify the pipe layer according to the markups. The product of this task is the addition of a pipe layer to the CITY's water system geodatabase. The resulting product will be delivered to the CITY through ArcGIS Online such that the CITY can make additional edits/changes to pipe alignments and attributes.

FEE ESTIMATE

The ENGINEER's proposed fee for the above scope of services is **\$20,000**. The estimated fees for each task are outlined as follows.

High-Accuracy GPS Water Asset Inventory	Total
Task 1: Project Management/Quality Control	\$ 3,720
Task 2: High-Accuracy Water System Asset Inventory (5 days)	\$ 7,180
Task 3: Delineate Water System Pipes to High Accuracy Positions	\$ 5,810
High-Accuracy GNSS Equipment Rental	\$ 1,800
Travel - Mileage	\$ 590
Travel - Lodging	\$ 900
TOTAL	\$ 20,000

EXHIBIT B HOURLY FEE SCHEDULE

Revised May 2022

PROFESSIONAL TECHNICAL STAFF

TECHNICIANS		ENGINEERING		ARCHAEOLOGY	
Technician I	\$ 65.00	Engineering Technician I	\$105.00	Archaeological Technician I	\$ 60.00
Technician II	\$ 75.00	Engineering Technician II	\$110.00	Archaeological Technician II	\$ 70.00
Technician III	\$ 80.00	Engineering Technician III	\$115.00	Staff Archaeologist I	\$ 75.00
Technician IV	\$ 90.00	Staff Engineer I	\$120.00	Staff Archaeologist II	\$ 80.00
Technician V	\$ 95.00	Staff Engineer II	\$125.00	Project Archaeologist I	\$ 85.00
Technician VI	\$100.00	Project Engineer I	\$130.00	Senior Archaeologist I	\$105.00
Technician VII	\$105.00	Project Engineer II	\$135.00	Senior Archaeologist II	\$120.00
Senior Technician I	\$110.00	Project Engineer III	\$145.00		
Senior Technician II	\$120.00	Project Engineer IV	\$150.00	PROJECT REPRESENTATIVES	
Senior Technician III	\$125.00	Project Engineer V	\$155.00	Project Representative I	\$ 95.00
Senior Technician IV	\$135.00	Project Engineer VI	\$165.00	Project Representative II	\$100.00
Senior Technician V	\$145.00	Project Engineer VII	\$170.00	Project Representative III	\$105.00
Senior Technician VI	\$155.00	Senior Engineer I	\$175.00	Project Representative IV	\$110.00
Senior Technician VII	\$165.00	Senior Engineer II	\$180.00		
Senior Technician VIII	\$170.00	Senior Engineer III	\$185.00	OVERTIME	
Senior Technician IX	\$185.00	Senior Engineer IV	\$190.00	Overtime Surcharge	\$ 35.00
		Senior Engineer V	\$200.00		
		Senior Engineer VI	\$205.00		
		Senior Engineer VII	\$210.00		
		Senior Engineer VIII	\$225.00		

SURVEYORS AND CREWS

Survey Technician I	\$ 70.00	Professional Land Surveyor I	\$130.00	Total Station	\$ 25.00
Survey Technician II	\$ 85.00	Professional Land Surveyor II	\$140.00	ATV (4-hour minimum)	\$ 32.00
Survey Technician III	\$ 90.00	Professional Land Surveyor III	\$155.00	Resource Grade GPS	\$ 22.00
Survey Crew Chief I	\$ 95.00	Professional Land Surveyor IV	\$175.00	Electrofischer	\$ 25.00
Survey Crew Chief II	\$100.00	Professional Land Surveyor V	\$185.00	Unmanned Aircraft System	
Survey Crew Chief III	\$110.00	GPS Total Station	\$ 40.00	(UAS/Drone)	\$ 45.00
Survey Crew Chief IV	\$140.00	Robotic Survey Station	\$ 30.00	GIS RTK GPS/GNSS Unit	\$ 32.00

OUT OF TOWN WORK

Mileage will be charged at the applicable IRS rate for vehicles, which is \$0.585 per mile for standard highway vehicles as of January 1, 2022. Mileage will be charged at \$0.75 per mile for vans and pickup trucks. Subsistence will be charged either per diem or actual cost, per contract. Lodging will be billed at actual cost.

OTHER

Other miscellaneous, direct, and outside expenses, including special Consultants, will be charged at actual cost plus 10%.

Expert Witness will be charged at two times the standard hourly rate.

All accounts unpaid 30 days after date of invoice may be charged a service fee of 1.0% per month.

This Hourly Fee Schedule is revised annually on or around March 1.