



CITY COUNCIL AGENDA REQUEST

Meeting Type: Mayor & Council Meeting

Meeting Date: 1/17/2023

Agenda Item: Arcadis Professional Services Task Order No. 007 for the 133 Huntington Road Stormwater Improvements Project

Department: Public Works

Requested By: Chad Townsend

Reviewed/Approved by City Attorney? No

Cost: \$78,740 (lump sum price)

Funding Source if Not in Budget Bonded Capital Projects

Please Provide A Summary of Your Request, Including Background Information to Explain the Request:

This request is to approve the professional services provided by Arcadis for design development of the 133 Huntington Road Drainage Improvements Project.

See attached proposal for additional information about the scope of work.

PROFESSIONAL SERVICES TASK ORDER

Task Order Number: 007
Task Order Date: January 5, 2023

Subject to the Master Services Agreement between *the City of Dalton, Georgia* [Client] and *Arcadis U.S., Inc.* [Arcadis], dated March 1, 2020, Client hereby authorizes Arcadis to perform services as specified in this Task Order and in accordance with the above-mentioned Agreement.

1. Project Description: A description of Client’s Project for which work is requested is provided in Attachment 1, incorporated into this Task Order.

Client's Project Number: _____
Project Name: Huntington Rd – Design Services
Client's Representative: Jackson Sheppard

2. Scope of Work: Arcadis shall perform its services as described in Attachment 1, incorporated into this Task Order.

Arcadis's Job Number: _____
Arcadis's Representative: Richard Greuel, P.E.

3. Time Schedule: Arcadis shall use reasonable efforts to complete its work by: 180 days of Notice to Proceed

4. Compensation: Arcadis's Compensation authorized under this Task Order, which shall not be exceeded without prior written authorization of Client, is:

\$ 78,740 [] This Task Order's Method of Payment is incorporated and attached as Attachment 2.

5. Special Conditions: This Task Order is subject to the special provisions as described in Attachment 3, attached and incorporated into this Task Order:

6. Amendment: [] This Task Order amends a previously executed Task Order: Ridge Street Drainage Study
Previous Task Order Number: ___ Previous Task Order Date: _____

ISSUED AND AUTHORIZED BY:
Client

ACCEPTED AND AGREED TO BY:
Arcadis, INC.

By: _____ By: _____

Title: _____ Title: _____

PROFESSIONAL SERVICES TASK ORDER

Task Order Number: 007

Attachment 1

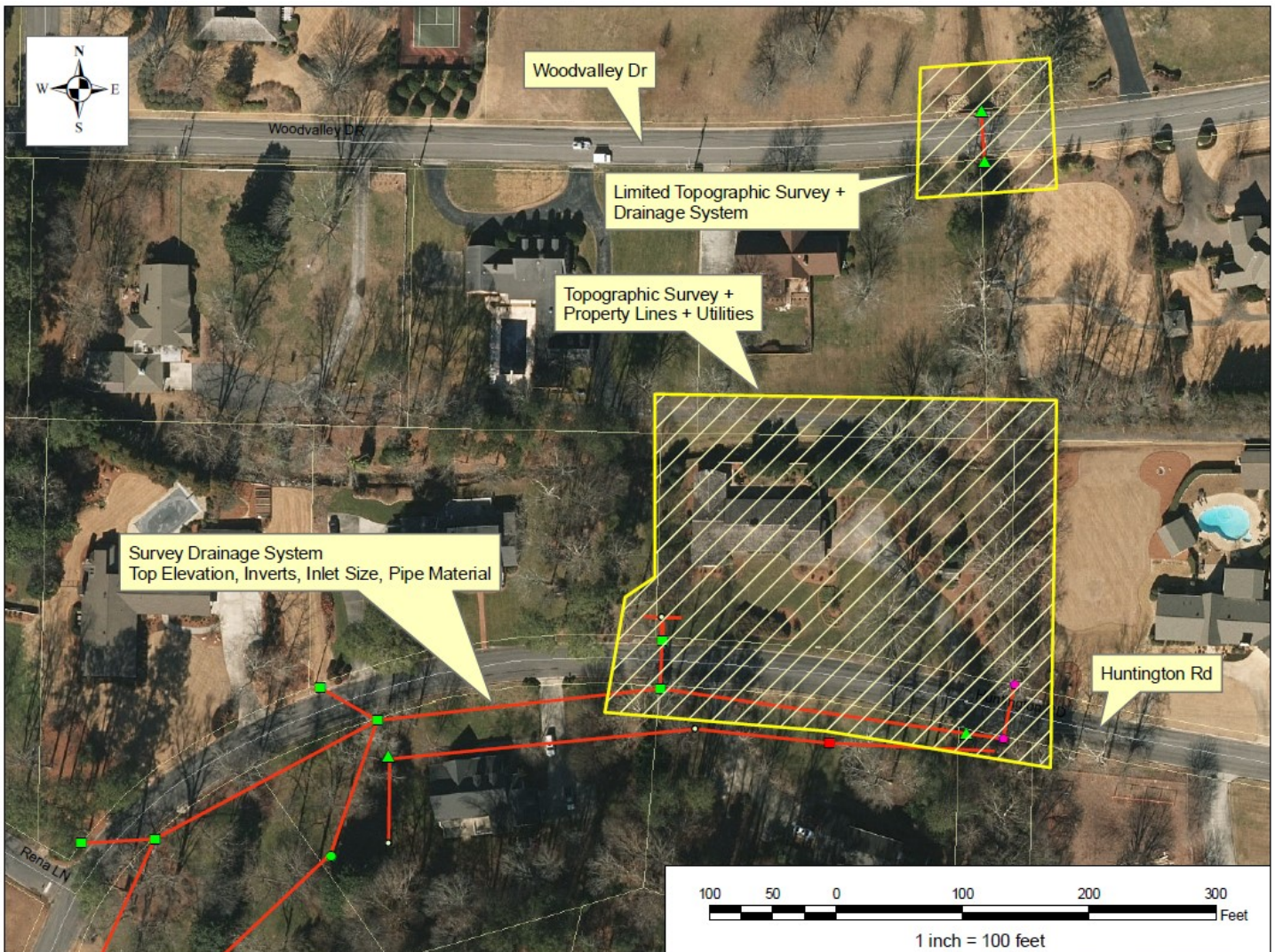
Description of Project & Scope of Work

Introduction

The City of Dalton Public Works Department has requested that Arcadis prepare this proposal to provide engineering support to develop infrastructure improvements in the McClellan Creek watershed. Specifically, this Task Order will focus on the development of construction plans for a detention facility constructed on the property currently located at 133 Huntington Road.

Task 1 – Survey

Arcadis will subcontract Southeastern Engineering, Inc. (SEI) to conduct a survey of the property at 133 Huntington Road. The surveying effort will be limited to that necessary to create a connection from the drainage system on Huntington Road to a small above ground detention pond on the southwest corner of the property. Survey will also include the drainage system on Wood Valley Drive of sufficient detail to model the floodplain in the area. The figure below illustrates the areas to be surveyed.



Task 2 – Floodplain Analysis

Following surveying, Arcadis will create a HEC-RAS 2D model of the floodplain from Wood Valley Drive upstream to Huntington Road. This modeling will be limited in scope and of sufficient detail to determine the limits of the 100-year floodplain. This modeling will be used to assist in design to determine if the detention facility can be built outside of the floodplain and / or have limited impacts such that a no-rise condition can be maintained.

Deliverables:

- Technical Memo outlining process and results of an existing conditions 100-year floodplain analysis
- HEC-RAS 2D Model Files

Assumptions:

- No FEMA Coordination
- McClellan Creek Floodplain Flow Rates from Task Order 6 Modeling will be used

Task 3 – Construction Plans

Once the floodplain for McClellan Creek has been established, Arcadis will work with the City to create a design of the detention facility. The design guidelines will focus on the following parameters:

- Model 1-yr, 2-yr, 5-yr, 10-yr, 25-yr, 50-yr, and 100-yr Storm Events
- Identify the quantity / rate of runoff that can be delivered to the proposed detention pond via the existing drainage system on Huntington Road
- Maximize Efficiency for Impacts to McClennan Creek for the 1-yr, 25-yr, and 100-yr Events
- Result in no increases in the existing conditions 100-year floodplain elevation
- Ensure no impacts to State Stream Buffer (25-foot)

30% Plans

Arcadis will prepare a design submittal at the 30-percent design stage and submit to the City of Dalton Public Works Department for review. The purpose of the 30% plans are to provide a engineering design that identifies all constraints to the design and provide “proof of concept”. The 30-percent design drawings and deliverables will include:

- 30% Submittal Construction Plan Sheets
 - Title Sheet
 - Existing Conditions Plan
 - Demolition Plan
 - Site, Grading and Drainage Plan
 - Limited Construction Details

Arcadis will provide a brief stormwater management memo outlining the hydrologic / hydraulic performance of the proposed improvements. As such, this memo will focus on illustrating the differences between the existing and proposed conditions of the design / plan.

Deliverables:

- 30% Construction Plans (PDF Format)
- Technical Memo outlining anticipated performance of the detention facility and the impacts to McClellan Creek

Assumptions:

- No more than 2 Design Iterations for Final Concept.
- ARCADIS will address one round of review comments for the 30-percent design.
- The City will provide one set of consolidated review comments for the 30% Design Plan submittal.

- The scale of plan drawings will be 1-inch equals 20-feet.
- This project will be exempt from water quality, channel protection, and detention requirements of the City's Land Development Ordinance.
- It is anticipated that the disturbed area of the project will be less than 1 acre, as such, no NPDES Construction permit will be required for this project. Additionally, the City will need to issue a Land Disturbance Permit for the project under the Georgia Erosion & Sedimentation Act given that the project will be located within 200-feet of a State Water.
- No geotechnical or environmental design services will be required for this project.
- GDOT standard details and specifications will be sufficient for the project for drainage elements.
- No structural design services will be required for the project.

60% Plans

At the beginning of the 60% design effort, the Landscape Architect will meet with the City / Neighborhood landscape committee to discuss the post construction landscaping plans for the project. Comments for the landscaping will be incorporated at the direction of City staff. Arcadis will prepare a design submittal at the 60-percent design stage and submit to the city for review. The 60-percent design drawings and deliverables will include:

- 60% Submittal Construction Plan Sheets
 - Title Sheet
 - General Notes
 - Existing Conditions Plan
 - Demolition Plan
 - Tree Protection Plan (if required)
 - Site, Grading and Drainage Plan
 - Pipe Profiles
 - Traffic Control Plan (if required)
 - Landscaping Plan
 - Erosion & Sedimentation Plans
 - Erosion & Sedimentation Details
 - Standard Details

Deliverables:

- 60% Construction Plans (PDF Format and 1 hardcopy)
- Stormwater Management Analysis memo (PDF Format) – If changed from the previous submittal.

Assumptions:

- ARCADIS will address one round of review comments for the 60-percent design.
- Meetings with the Neighborhood landscape committee will be limited to one in-person meeting
- The City will provide one set of consolidated review comments for the 60% Design Plan submittal prior to the plan review meeting.
- The scale of plan drawings will be 1-inch equals 20-feet
- No renderings are included in the scope of work

90% Plans

Arcadis will prepare a design submittal at the 90-percent design stage and submit to the City for review. The 90-percent design drawings and deliverables will include:

- 90% Submittal Construction Plan Sheets
 - Title Sheet
 - General Notes
 - Existing Conditions Plan

- Demolition Plan
- Tree Protection Plan (if required)
- Site, Grading and Drainage Plan
- Pipe Profiles
- Traffic Control Plan (if required)
- Erosion & Sedimentation Plans
- Erosion & Sedimentation Details
- Standard Details

It is the intent of the 90% drawings to be sufficient for permitting. Following completion of the effort, Arcadis will provide a 90% set of construction plans marked "For Permitting" signed and sealed by a Georgia Registered Engineer with a Level II Design certification by the Georgia Soil and Water Conservation Commission.

Deliverables:

- 90% Construction Plans (PDF Format and 1 hardcopy)
- Stormwater Management Analysis memo (PDF Format) – If changed from the previous submittal.

Assumptions:

- ARCADIS will address one round of review comments for the 90-percent design.
- The County will provide one set of consolidated review comments for the 90% Design Plan submittal prior to the plan review meeting.
- Following completion of this task, the plans will be considered final and sealed / signed drawings will be provided.

Permitting

Based on the approach outlined above, no significant permitting is expected. The proposed project will avoid impacts to wetlands, buffers, and other environmentally sensitive areas. Finally, it is anticipated that any impacts to FEMA floodplain will require a "no-rise" condition. Should permitting with Georgia EPD, US Fish & Wildlife, US Army Corps of Engineers, or FEMA, a separate authorization will be prepared and submitted to the City.

PROFESSIONAL SERVICES TASK ORDER

Task Order Number: 007

Attachment 2

Task Order Payment Terms

All work will be completed on a time and materials basis for a fee not to exceed the amount listed in this Task Order based on the 2022 rate table below. The task budgets below are an estimate of the level of effort for each phase of the scope of work.

Task 1 – Survey - \$11,990

Task 2 – Floodplain Analysis - \$9,540

Task 3 – Construction Plans - \$57,210

2023 Rate Schedule

Title	Rate \$/hr
Project Administrative Assistant	\$70
Project Assistant	\$90
Sr Project Assistant	\$120
Project Manager	\$215
Engineering Technician I	\$90
Engineering Technician II	\$110
Staff Engineer/Scientist/Architect I	\$90
Staff Engineer/Scientist/Architect II	\$100
Staff Engineer/Scientist/Architect III	\$110
Project Engineer/Scientist/Architect I	\$120
Project Engineer/Scientist/Architect II	\$135
Project Engineer/Scientist/Architect III	\$150
Senior Engineer/Scientist/Architect I	\$165
Senior Engineer/Scientist/Architect II	\$180
Senior Engineer/Scientist/Architect III	\$195
Principal Engineer/Scientist/Architect I	\$240
Principal Engineer/Scientist/Architect II	\$265
Principal Engineer/Scientist/Architect III	\$290
Registered Land Surveyor	\$150
2-man Survey Crew	\$150
3-man Survey Crew	\$225

* A rate schedule will be provided with each Task Order proposal based on the specific services that will be provided and the rates effective at that time.

*All direct expenses will be billed at cost plus 10%

*Mileage will be billed at the current federal mileage rate

* Additional Services requested by the City beyond those in Scope of Work will be billed on an hourly basis in accordance with this rate schedule

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Attachment 3
Special Conditions

None.