







Professional Services Fee Proposal

January 2022

Mr. Craig Light P.E. Engineering Director City of Jonesboro, Arkansas 300 S Church Jonesboro, AR 72401 Re City of Jonesboro, Arkansas 2022 Street Conditions 360-Degree Patrol - Option Sidewalk Inventory - Option

The University of Arkansas' Technology Transfer Program, Ergon Asphalts and Emulsions, Inc., and DataStream are pleased to work with Jonesboro, Arkansas Public Works Department to develop First Step Pavement Management. First Step Pavement Management is designed to incorporate all hard-surfaced roadways maintained by the City and address the following immediate goals:

- Develop an Inventory of hard-surfaced roadways under the authority of the City
- Perform a condition patrol of all inventoried, hard-surface roadways
- Perform the condition patrol with optional 360-Degree Cameras
- · Develop and Inventory of existing, city-maintained sidewalks

Additional Goals may include:

- Review the Department's current street maintenance practices and techniques
- Extend the functional life of hard-surfaced roadways maintained by the City

PROJECT SCOPE OF WORK

1.0 Pavement Management – Inventory

Pavement Inventory

- Create an inventory and associated map of all public, hard-surfaced roadways
- Receive known roadway information (construction history, work history, maintenance cost history, etc.)
- · Quickly review maintained roadway inventory with the client
- · Export Google Earth (KMZ) files for the client's immediate use



Figure 1 - Pavement Inventory

2.0 Pavement Management – Inventory Condition Assessment / Distress Patrol

· Pavement health is illustrated as:

EXCELLENT

- A pavement in condition EXCELLENT is in perfect condition
- No corrective maintenance or preventive maintenance is recommended
- Distress should be both localized and isolated

o GOOD

- Preventive maintenance may be recommended
- Corrective maintenance is typically not recommended
- · Pavement distress is limited to oxidation, weathering and minor climate (non-structural) related damage.
- Structural distress (if present) is both localized and low density (<5%)

o FAIR

- Preventive maintenance may be recommended
- Corrective maintenance may be recommended
- A variety of pavement distresses may be present
- Structural distress may be localized as well as global
- · Global Structural damage is low severity / low density

CRITICAL

- A pavement in condition CRITICAL is likely to be LOST (and require reconstruction) within 2 years
- A variety of pavement distresses may be present
- Surface and Structural distresses are typically global in nature
- A combination of corrective and preventive maintenance may be recommended

- A LOST pavement requires major M&R (Maintenance and Repair/Reconstruction)
- · Shallow, Deep, and/or Full-Depth Reconstruction may be recommended



- Surface Distress - Low Density

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Su - Surface Distress - Medium to High Density

Climate (non-structural) related distress including:

Surface Cracking, Longitudinal and Transverse Cracking, Block Cracking, Edge Cracking Severe Weathering, Raveling, Bleeding, Scaling (PCC), Durability Cracking (PCC)



- Structural Distress and



- Mass Structural Distress

- Evidence of structural/durability distress present
- · Depth of structural damage (shallow, deep) is not indicated
- · Distresses include Alligator Cracking, Rutting (High Severity), Depression (High Severity), Utility Cuts



- Pothole 01 and



- Pothole 02

- Observed Pothole 01 is of higher importance than observed Pothole 02
- Pothole 01 is a Major Pothole and is typically structural in nature
- Pothole 02 is a minor pothole and may consist of edge conditions / small popouts



- Drainage / Water Issue
- Observed drainage issues present on the pavement surface may be a variety of causes
- Depression, rutting, drainage (or lack of drainage), condensate lines, roof drains, etc

2.3 Reporting - Dynamic Roadway Condition Map



Figure 2 - Dynamic Condition Map with Road Condition and Distress Toggle Buttons

2.4 Geolocated Video, Road Book, Project Planner



Figure 3 - Condition Map with Video (1080p / 30fp)

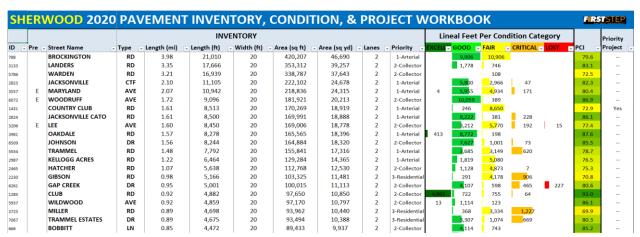


Figure 4 - Road Book and Project Planner

3.0 360-Degree Camera

- In addition to Standard Patrol Video Cameras, professional 360-Degree Spherical Cameras will be utilized
- Completed 360-Degree Data will be uploaded to Google Maps for the Street View[™] Program
- Completed 360-Degree Data will be utilized to develop 4.0 Public Sidewalk Network Inventory

4.0 Public Sidewalk Network Inventory

- Will build upon existing sidewalk data (if available)
- Receive known sidewalk information (construction history, work history, maintenance cost history, etc.)
- Refine sidewalk inventory linework:



Figure 5 - Example Sidewalk Inventory

5.0 Compensation

Jonesboro, Arkansas	Method	Fee
FirstStep Pavement Management		\$33,225.00
Optional 360-Camera Patrol		\$8,500.00
Sidewalk Network Inventory		\$7,775.00
TOTAL:	Lump Sum	\$49,500.00

6.0 Additional Services

Services requested by the Owner falling outside the Scope of Basic Services described above shall be considered Additional Services.

- Enhanced Site Assessments, Patrols and Reports
 - 360 Degree Camera Data Collection (Option Proposed)
 - Google Earth Street View™ Patrol (Option Proposed)
 - Sidewalk Inventory and Patrol (Option Proposed)
 - Striping Inventory and Patrol
 - Sign Patrol
 - o Drainage / Ditch Patrol
 - Private Roadways / Parking Lots / Boat Ramps
 - Night Patrol
 - Sanitary / Storm Sewer Inventory and Patrol
 - Mapping of existing subsurface video inspections
 - Perimeter Fences and Exterior Drives
 - Building / Facility Patrol

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- o Building Interior / Product Patrol
- Geotechnical Investigations and reports
- Contract administration, bidding and negotiation
- Construction administration
- Additional site visits at the request of the owner

7.0 Method of Payment

Method of payment shall be a monthly invoice or one single invoice per patrol. Hourly tasks or services approved by the Client are invoiced monthly based upon time spent performing the task or service outlined above. Invoices are due and payable upon receipt and within 30 days.

We appreciate the opportunity to be of service in the development of your pavement management program.

Please indicate your acceptance of the terms, scope of work and fee by signing and returning a copy to our office. A facsimile signature is sufficient to indicate your understanding of the proposed agreement. If you have any questions or concerns, please do not hesitate to call. This proposal is valid for 120 days from receipt. Additionally, the proposal may become null and void 12 months from the date of acceptance by the client, if the work has not been authorized to begin within that time.

Sincerely, Michael G. Morgan Senior Project Manager		
Agreed to and accepted this date:		Agreed to and accepted this date:
	-	
Signature	-	Signature
Printed Name	-	Printed Name
Title / Authorizing Agent	-	Title / Authorizing Agent