

**MINUTES OF THE WORK SESSION
OF THE MAYOR AND BOARD OF ALDERMEN
OF THE CITY OF STARKVILLE, MISSISSIPPI
FEBRUARY 2, 2024**

Be it remembered that the Mayor and members of the Board of Aldermen met in a Work Session on Friday, February 2, 2024 at 11:00 a.m. in the second-floor conference room of City Hall located at 110 West Main Street, Starkville, MS. Present were Mayor D. Lynn Spruill, Alderwoman Sandra Sistrunk, Alderman Jeffrey Rupp, Alderman Mike Brooks, Alderman Hamp Beatty and Alderman Henry Vaughn, Sr. City Attorney Berk Huskison and Deputy City Clerk Joanna McLaurin were also present.

Mayor Spruill opened the work session. The work session was properly noticed pursuant to Miss. Code Ann. §25-41-13 and a copy of that notice is included in the minutes. The work session was live streamed on Facebook. The public and media were welcomed and attended. The session is also available for viewing on the City website.

Dan Cordell with Civil Link gave a presentation on the final street analysis results and the plans for the 2024 overlay projects.

The Mayor and members of the Board discussed items on the upcoming February 6, 2024 agenda. Department Directors were available to answer questions related to the items. All agenda items were discussed.

SIGNED AND SEALED THIS THE 20TH DAY OF FEBRUARY, 2024.

MAYOR D. LYNN SPRUILL

Attest:

Seal

JOANNA MCLAURIN
DEPUTY CITY CLERK



STARKVILLE, MS ROAD MAINTENANCE AND IMPROVEMENTS

February 2, 2024
Dan Cordell, P.E.



**Program
Overview**

**Starkville by
the Numbers**

**Roadway
Treatments**

**Future
Roadmap**



HISTORIC **STARKVILLE** **MISSISSIPPI'S COLLEGE TOWN**

Catalyst

Response

What's New

Success Story

Catalyst

**What Brought
Us Here?**



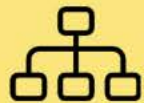
Cost to Overlay

\$5.5 - \$6m Annually

Response

Response

Response / Research



**Preservation
Methods**

+



**Sister
Communities**

+



**Site
Visits**

+



**Training
Sessions**



What's New



**Utilize New
Treatment
Methods**



**Convenience
Factor**



**Public
Outreach &
Education**



Success Story

Rankin County



Program Overview

A turn-key maintenance and improvements program for Cities and Counties. Provides realistic expectations regarding current conditions, costs and budgetary needs.

1

Survey

Video and rate all City roads on a 1-10 scale.

2

Data

Detailed attribute collection for all City roads.

3

Planning

Implementation budgeting and planning.

4

Report

Multi-year implementation guidance document.

**PASER
System**

**Cost-Benefit
Factor**

**Web Based
Planning Tools**

**Program
History**

PASER System



Objective, 1 to 10 condition rating system that uses visual inspection to evaluate pavement surface conditions. Recognizing defects, and understanding their causes, helps us rate pavement condition and select cost-effective repairs.

Excellent

RSR 9-10

No Maintenance
Required

New
Construction /
Like New

Good

RSR 7-8

Crack Sealing, Fog
Sealing, Minor
Patching

Recent Overlay or
Sealcoat; First
Signs of Aging

Fair

RSR 5-6

Single Treatment,
Double Treatment

Sound Structural
Condition;
Showing Signs of
Aging

Poor

RSR 3-4

Structural Overlay

Significant Aging
& Needs
Structural
Renewal

Failed

RSR 1-2

Reconstruction

Severe
Deterioration or
Failed; Extensive
Repairs Needed

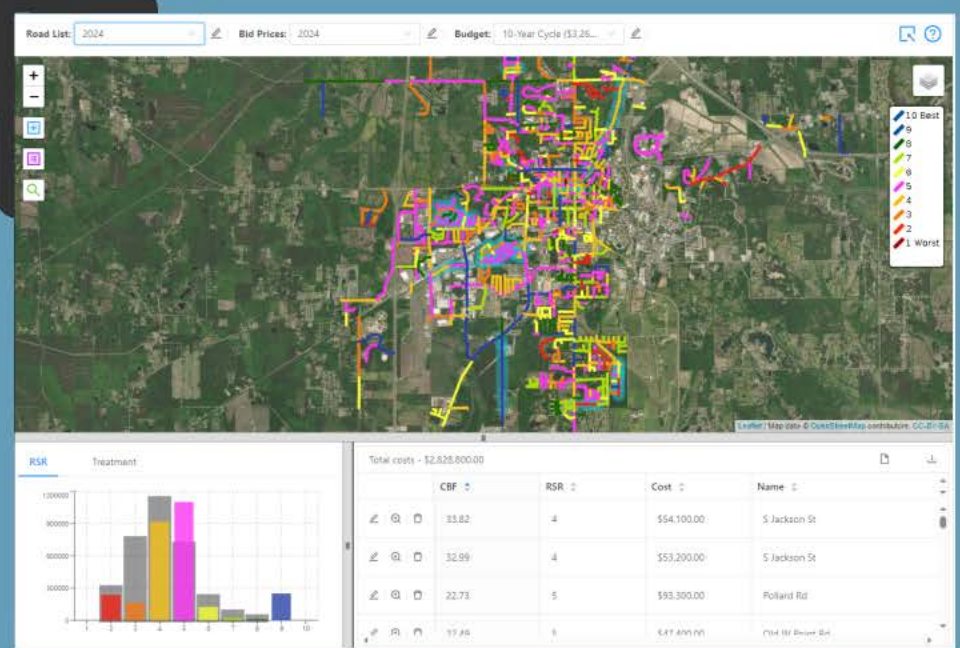
Cost-Benefit Factor

Cost Benefit Factor (CBF) offers roadway managers a way to prioritize projects while accounting for the variables relevant to you and the realities of traffic, cost and life extension.

$$\frac{(\text{Traffic / Constraint Factor}) \times (\text{Life Extension})}{(\text{Unit Cost}) \times (\text{RSR})}$$

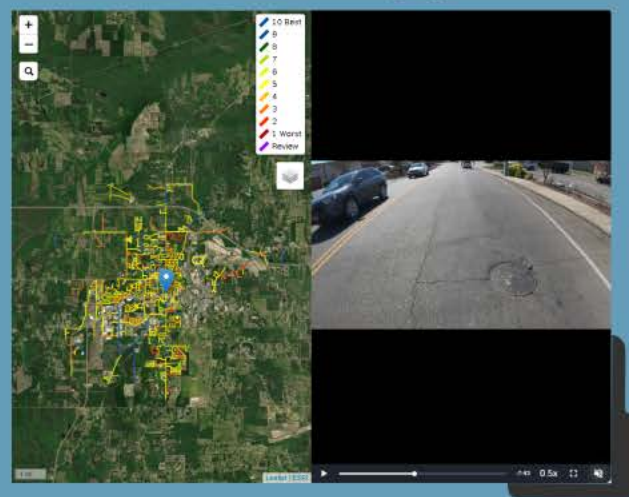
Web Based Planning Tools

Get the most out of your investments.



Planning Tool

Video App



Program History

Started in 2015 to answer one question: "How much money do I need to spend on my road network?"

Clients

Southaven, MS
Olive Branch, MS
Franklin, TN
Rankin Co, MS
Lauderdale Co, MS
Hancock Co, MS
Biloxi, MS
Diamondhead, MS
Senatobia, MS
+ 7 Others

Mileage

More than 7,000
miles surveyed
over 16 clients.

Multiple client
resurveys for
rating and plan
updates.

Awards

MML Planning &
Economic Dev.
Award for
Excellence

AEMA Past
President's Award
for Emulsion
Excellence

NADO Impact Award

Other

Disaster Recovery

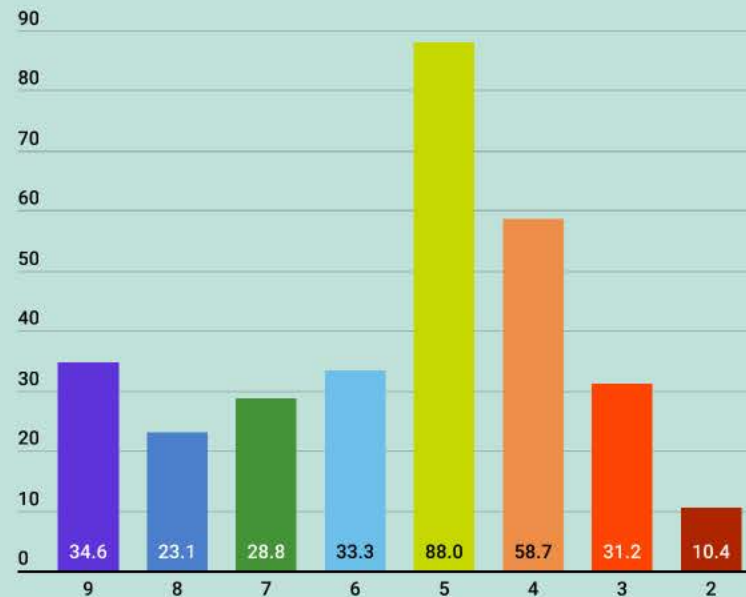
Cost Recovery for
Road Damage

Secondary Planning
& Implementation
Assistance

Client Success

Starkville by the Numbers

2024 Snapshot in Time



**5.5 Average
Road Surface Rating (RSR)**

314 Total Lane Miles

308 Miles - Asphalt/Concrete
6 Miles - Gravel

Asphalt/Concrete:
208 Miles (67%) Preservation
100 Miles (33%) Structural

**Overall
Costs**

**Treatment
Planning**

**Long-Term
Plan**

Overall Costs

\$36,000,000
Current Estimate

Maintenance
\$11m / 200 Miles
31% Total Cost

Structural
\$25m / 100 Miles
69% Total Cost

The cost to repair and maintain roads increases as the quality degrades.

RSR	Total Mileage	Total Est. Cost
9	34.6	\$0
8	23.1	\$440,000
7	28.8	\$820,000
6	33.3	\$2,280,000
5	88	\$7,700,000
4	58.7	\$11,520,000
3	31.2	\$7,770,000
2	10.4	\$5,510,000

Treatment Planning

In collaboration with City Engineering Staff, we have determined costs and the most effective treatment methods.

Budget Considerations Include:

- Treatment Method
- Patching Needs
- Striping Needs
- Lane Width
- Lane Count
- Road Type

RSR	Treatment	Life Ext.	Lane Mile Cost (12')
7/8	Fog and Crack Seal	2-3 Years	\$24,000
6	Single Treatment	6-8 Years	\$69,000
5	Double Treatment	10-12 Years	\$88,000
4	1.5" Overlay	12-15 Years	\$196,000
3	2" Overlay	12-15 Years	\$249,000
2	Full Depth Reclamation	15-18 Years	\$529,000

**Maintenance
Methods**

**Structural
Repairs**

Long-Term Plan



Estimated yearly budget to **bring all roads up to a maintenance level** over 10 years.

Objectives

- 01 Repair all roads with structural problems.**
RSR 2-4; \$24m total cost.
- 02 Keep the good roads in good condition.**
RSR 5-9; Apply preservation treatments to maintain these roads.
- 03 Bring all roads to maintenance level condition.**
Touch all roads over ten year period.
- 04 Re-assess and adjust as-needed.**
Assess progress every 3-5 years. Adjust plan and budget as needed.

Repair Type	Lane Miles	Cost
Preservation	17 mi. →	\$1.1m
Structural	9 mi. →	\$2.3m
Yearly Total	26 mi. →	\$3.4m

Roadway Treatments

Applying the right treatment at the right time for each road ensures a high-value investment in the city's infrastructure.

Nearly 70% of Starkville's roads are suitable for treatments such as **crack seal**, **fog seal**, **microsurfacing**, **thin lift** or **scrub seal**.

Treatment Methods

Treatment Methods

More money '**down**'
the road versus
'**down in the road.**'



Year 1: Mill & Overlay

Year 6: Crack Seal & Micro

Year 14: Picture Taken

**Crack
Seal**

**Fog
Seal**

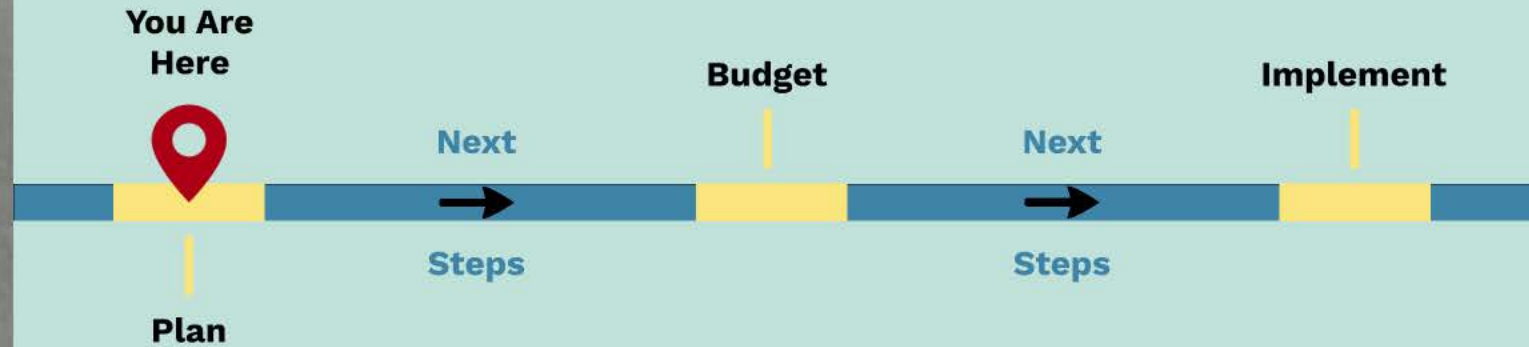
**Micro
Surfacing**

**Scrub
Seal**

Overlay

FDR

Future Roadmap



Ask, call or email questions.

Dan Cordell, P.E.
Barrett Burnworth

Civil-Link, LLC.
5779 Getwell Road, Bldg B
Southaven, MS 38672
(662) 510-2169



WORK SESSION

CITY OF STARKVILLE, MISSISSIPPI

FEBRUARY 02, 2024

11:00 a.m.

- A. CALL THE MEETING TO ORDER**
- B. REPORT FROM CIVIL LINK ON THE FINAL STREET ANALYSIS RESULTS
AND THE PLANS FOR THE 2024 OVERLAY PROJECTS**
- C. DISCUSSION OF THE AGENDA ITEMS FOR THE FEBRUARY 06, 2024
MEETING OF THE BOARD OF ALDERMEN FOR THE CITY OF
STARKVILLE.**
- D. ADJOURN MEETING**



**THERE WILL BE A WORK SESSION OF THE
MAYOR AND BOARD OF ALDERMEN ON
FRIDAY, FEBRUARY 2, 2024.**

**AT 11:00 AM IN THE STARKVILLE CITY HALL
LOCATED AT 110 WEST MAIN STREET
IN THE SECOND FLOOR CONFERENCE ROOM**

The public and media are invited to attend.

*The City of Starkville is accessible to persons with disabilities. Please call the ADA Coordinator at
(662) 323-2525 ext. 3119, in advance for any services requested.*