

**MINUTES OF THE WORK SESSION
OF THE MAYOR AND BOARD OF ALDERMEN
OF THE CITY OF STARKVILLE, MISSISSIPPI
FEBRUARY 3, 2023**

Be it remembered that the Mayor and members of the Board of Aldermen met in a Work Session on Friday, February 3, 2023 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, Alderman Ben Carver, Alderwoman Sandra Sistrunk, Alderman Jeffrey Rupp, Alderman Mike Brooks, Alderman Hamp Beatty and Alderman Henry Vaughn. City Attorney Berk Huskison and City Clerk Lesa Hardin 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.

Jennifer Gregory, President of Downtown Strategies, and Jeremy Murdoch, Downtown Strategies Specialist, of Retail Strategies presented an update on the retail prospects for the City of Starkville.

City Engineer Cody Burnett presented recommendations for storm water management amendments.

Aldermen Rupp and Sistrunk discussed research of a Starkville recycling program. Data had been gathered as to a potential curbside recycling program and various cost estimates.

The Mayor and members of the Board discussed items on the upcoming February 7, 2023 agenda. Department Directors were available to answer questions related to the items. All agenda items were discussed.

SIGNED AND SEALED THIS THE 21 st DAY OF FEBRUARY, 2023.

MAYOR D. LYNN SPRUILL

Attest:

Seal

LESA HARDIN, CITY CLERK



WORK SESSION

**CITY OF STARKVILLE, MISSISSIPPI
FEBRUARY 3, 2023
11:00 a.m.**

- A. CALL THE MEETING TO ORDER**
- B. UPDATE FROM JENNIFER GREGORY AND JEREMY MURDOCH OF RETAIL STRATEGIES ON THE RETAIL PROSPECTS FOR THE CITY OF STARKVILLE**
- C. PRESENTATION BY CODY BURNETT OF RECOMMENDED STORM WATER MANAGEMENT AMENDMENTS**
- D. UPDATE ON THE POTENTIAL FOR A CITY OF STARKVILLE RECYCLING PROGRAM WITH THE COST ANALYSIS AND PARTICIPATION REQUIREMENTS.**
- E. DISCUSSION OF THE AGENDA ITEMS FOR THE REGULAR FEBRUARY 7, 2023, MEETING OF THE BOARD OF ALDERMEN FOR THE CITY OF STARKVILLE.**
- F. ADJOURN**

**THERE WILL BE A WORK SESSION OF THE
MAYOR AND BOARD OF ALDERMEN ON
FRIDAY, FEBRUARY 3, 2023**

**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.

HISTORY OF STORMWATER ORDINANCE

- First Adopted in 2006
- Revised in 2010
- Revised in 2019

RECORD RAINFALL YEARS

YEAR	PRECIPITATION
1979	82 inches
1983	86 inches
2009	87 inches
2019	90 inches

*Based on best available date from NOAA.



OVERVIEW

1. Reason for Revisions
2. Potential Issues with Ordinance
3. Proposed Changes to Ordinance
4. Long-Term Stormwater Goals



1. REASONS FOR REVISIONS

- Discussions with other engineers and communities
- In-Field Observations
- Cross-Checks with Pond Design





2. POTENTIAL ISSUES: RAINFALL DATA

What is Rainfall Data? (*Precipitation Frequency Estimates*)

- Depth of rainfall for storm events (2, 10, 100-yr, etc.)

Why could it be Overestimated?

- Rainfall patterns change over time
- Volume of rain vs. intensity of rain
- Can cause detention systems to be oversized

Can we change the Rainfall Data?

- Very complicated to determine
- Determined by NOAA, Atlas 14

How to Respond?

3. PROPOSED CHANGES: DESIGN STORM

- 2-year, 24-hour storm (50% chance) *current requirement**

4.1 inches of rain in 24 hours

- 10-year, 24-hour storm (10% chance) *current requirement**

6.0 inches of rain in 24 hours

- ~~■ 100-year, 24-hour storm (1% chance) *current requirement*~~

~~9.4 inches of rain in 24 hours~~

- 25-year, 24-hour storm (4% chance) *proposed requirement*

7.2 inches of rain in 24 hours

Source: https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html

**indicates events to remain
as a requirement*



COMPARISON WITH OTHER COMMUNITIES

City / Authority	Design Event
Oxford	2, 10, 25, 100
Tupelo	25
Desoto County	25
Clinton	2, 10, 50
Madison	2, 10, 50
Hattiesburg	25
Memphis	10



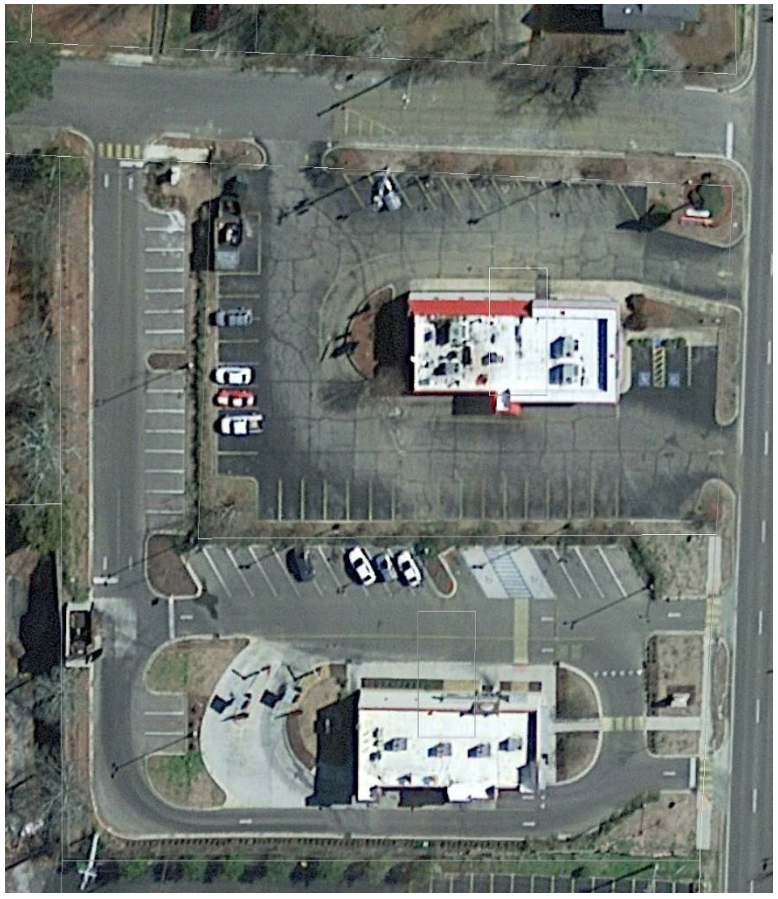
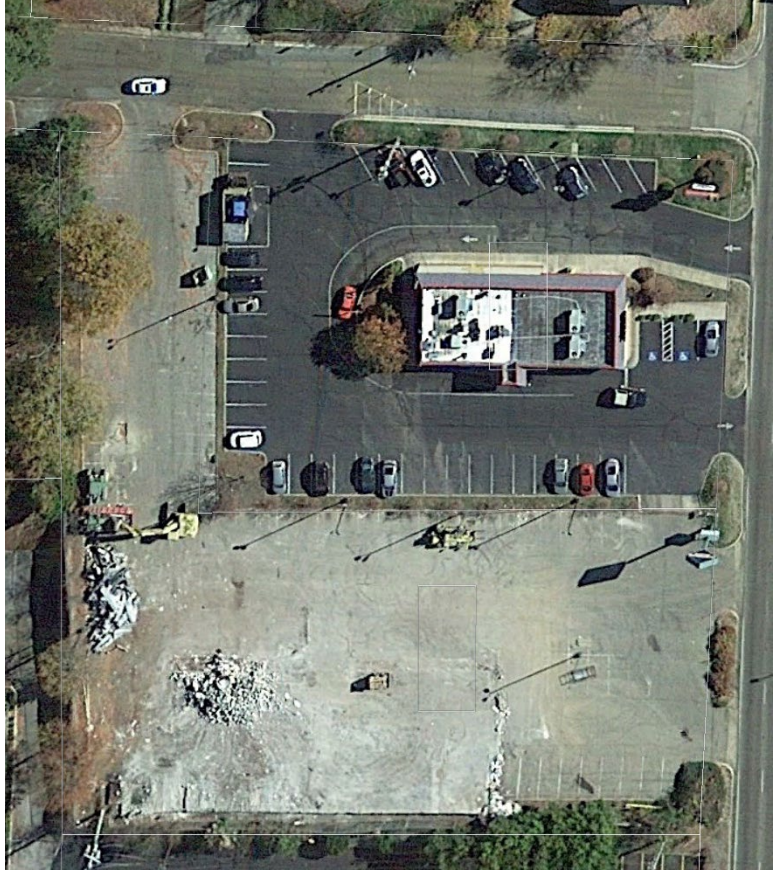


4. LONG-TERM STORMWATER GOALS

- ✓ Goal 1: Precipitation Data Collection System
 - Rain Gauge
 - Ability to track small time intervals
 - Allows us to know what storm events we experience
 - Provides a scientific perspective for flooding severity
- ✓ Goal 2: City-Wide Watershed Study
 - Delineates major drainage basins in corporate limits
 - Assigns critical rating to each basin
 - Provides ability to plan on a City-wide scale
 - Ability to codify different design storm requirements
 - Provides guidance on where to best spend capital improvement funding

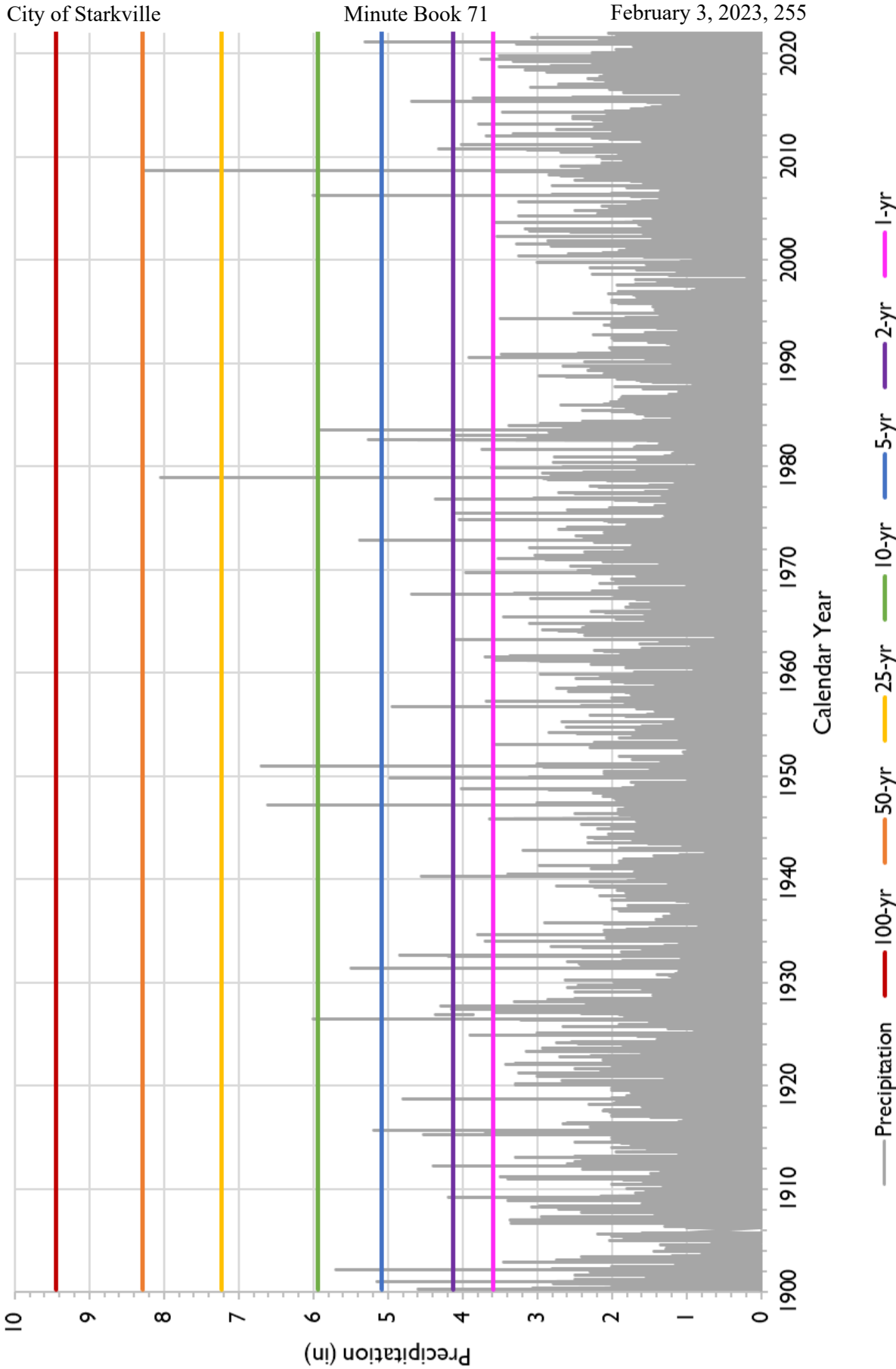
PROPOSED CHANGES: RE-DEVELOPMENT

- Current Requirement: 95% reduction for 2, 10, & 100-year
- Proposed Requirement: 95% reduction for 2-year only
- For smaller sites, typically can be achieved through well-designed landscaping / removal of impervious surfaces
- Detention required if there is no change or increase in imperviousness



Starkville Historic Rainfall Data

Station USC00228374: MSU North Farm



PRECIPITATION DATA

- North Farm Rain Gauge
- Since 1900
- Daily Data, 24-hour duration
- Potential Inaccuracies

Storm Event	Rainfall Depth	Actual Occurrences	Expected Occurrences
100	9.4	0	0 – 1
50	8.3	1	0 – 2
25	7.2	1	2 – 4
10	5.9	5	7 – 11
5	5.1	7	18 – 22
2	4.1	21	52 – 58
1	3.6	27	122



RISK: Chance of “X” Storm Occurring in “#” Years

Time Span of # years	2-yr Storm	10-yr Storm	25-yr Storm	50-yr Storm	100-yr Storm
1	50%	10%	4%	2%	1%
2	75%	19%	8%	4%	1%
5	97%	41%	18%	10%	1%
10	100%	65%	34%	18%	10%
25	100%	93%	64%	40%	22%
30	100%	96%	71%	45%	26%
50	100%	99%	87%	64%	39%
100	100%	100%	98%	87%	63%
122	100%	100%	99%	91%	71%
500	100%	100%	100%	100%	99%