

## **REQUEST FOR BOARD ACTION**

### **HENDERSON COUNTY BOARD OF COMMISSIONERS**

**MEETING DATE:** January 18, 2023

**SUBJECT:** Resolution – Jackson Park Feasibility and Engineering Study

**PRESENTER:** Betsy Gerwig, Conservation Engineer

**ATTACHMENTS:** Yes

1. Study Resolution
2. Project Proposal

#### **SUMMARY OF REQUEST:**

The Board is requested to approve the attached Study Resolution to provide up to a \$50,000 for the match for a Water Resources Development grant. An application for a Jackson Park Feasibility and Engineering Study has been submitted for a Water Resources Development grant. The study will evaluate Mud Creek, Bat Fork, and associated drainage ditches within Jackson Park to identify ways to improve stormwater management, floodplain connectivity, wetlands, recreational opportunities, and stream restoration. The amount requested from the grant is \$50,000. Due to the scope of the project, the estimated cost is between \$75,000 to \$100,000. It is expected the grant will be awarded in May 2023.

Should the grant be awarded and accepted, Staff will request the necessary Budget Amendment at that time.

#### **BOARD ACTION REQUESTED:**

The Board is requested to approve the Resolution for the Jackson Park Feasibility and Engineering Study and provide up to \$50,000 for the match for the Water Resources Development grant.

#### **SUGGESTED MOTION:**

*I move the Board approve the Resolution for the Jackson Park Feasibility and Engineering Study and provide up to \$50,000 for the match for the Water Resources Development grant if awarded and accepted.*

# Henderson County Board of Commissioners

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Chairman  
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## Feasibility & Engineering Study Resolution - Water Resources Development Grant

**WHEREAS,** the Henderson County Board of Commissioners desires to sponsor the Jackson Park Feasibility and Engineering Study, a study of Mud Creek, Bat Fork, and associated drainage ditches within the Park to identify ways to improve stormwater management, floodplain connectivity, wetlands, recreational opportunities, and stream restoration at Jackson Park (Park), Henderson County, NC;

### **NOW, THEREFORE, BE IT RESOLVED THAT:**

- 1) The Board requests the State of North Carolina to provide financial assistance to Henderson County for Jackson Park Feasibility and Engineering Study in the amount of \$ 50,000 or 50% percent of nonfederal project costs, whichever is the lesser amount; and
- 2) The Board assumes full obligation for payment of the balance of the study costs (or non-federal portion); and
- 3) The Board will comply with all applicable laws governing the award of contracts and the expenditure of public funds by local governments.

Adopted this the 18<sup>th</sup> day of January, 2023.

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REBECCA MCCALL, CHAIRMAN  
HENDERSON COUNTY BOARD OF COMMISSIONERS

ATTEST:

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DENISA A. LAUFFER, CLERK TO THE BOARD

The Jackson Park Feasibility and Engineering Study is a study of Mud Creek, Bat Fork, and associated drainage ditches within the Park to identify ways to improve stormwater management, floodplain connectivity, wetlands, recreational opportunities, and stream restoration at Jackson Park (Park), Henderson County, NC.:

Objectives of the project are to improve stormwater management within the Park and improve floodwater drainage and connectivity of wetlands, ditches, and streams. The study will evaluate the following: existing stream and wetland conditions, stormwater runoff, identify options to improve stormwater management and infiltration or storage within the Park, identify impediments to floodplain drainage and recommendations for improvement, evaluate where recreation can be incorporated into the improvements, provide recommendations for wetland quality improvements. Proposed tasks are as follows:

**Task 1. Existing Condition Assessment:**

- Stormwater Assessment to improve stormwater infiltration during small rain events.
- Watershed assessment to predict hydrology for the stream reach being studied.
- Identification of site constraints including property boundaries, floodplain, and infrastructure to be protected.
- Topographic survey of stream channel, surrounding floodplain, and site constraints.
- Geomorphic survey of channel and floodplain dimensions, pattern, and profile.
- Stream functional assessment using Stream Quantification Tool (SQT).

**Task 2. Stream, Wetland, and Floodplain Improvement Planning:**

- Concept-level restoration design alternatives for discussion with client and stakeholders.
- Prioritized list all floodplain, wetland, and stream improvements.
- Planning-level cost estimates for restoration alternatives.
- Grant application support to client in response to state and federal agency grant applications.

**Task 2. Stormwater Management Improvement Planning:**

- Concept-level improvement alternatives for discussion with client and stakeholders.
- Prioritized list all stormwater management improvements.
- Planning-level cost estimates for improvement alternatives.
- Grant application support to client in response to state and federal agency grant applications.

**Deliverables:**

- Feasibility and Engineering Study Report electronic files documenting all data and findings.
- Technical support for grant-writing during funding acquisition.
- Estimated costs for permitting and design phase and construction phase. Phases may be divided by drainage features.