

REQUEST FOR BOARD ACTION

HENDERSON COUNTY BOARD OF COMMISSIONERS

MEETING DATE: June 3, 2024

SUBJECT: **Project Update**
Clear Creek Sewer Design and Permitting

PRESENTER: Marcus Jones, P. E.
County Engineer

ATTACHMENTS: Yes
1. Presentation from WGLA Engineering, PLLC

SUMMARY OF REQUEST:

With the Board approval of the design and permitting agreement with WGLA Engineering during the December 4, 2023 meeting and the approval of the discharge permit for the treatment plant last month, Will Buie from WGLA Engineering will present an update on the project to include cost estimates and available scope options for Board consideration.

This project is on a very constrained schedule due to funding deadlines.

BOARD ACTION REQUESTED: For Board discussion, no action needed.

Suggested Motion:

For Board discussion, no action needed.

Clear Creek

Proposed Sewer System

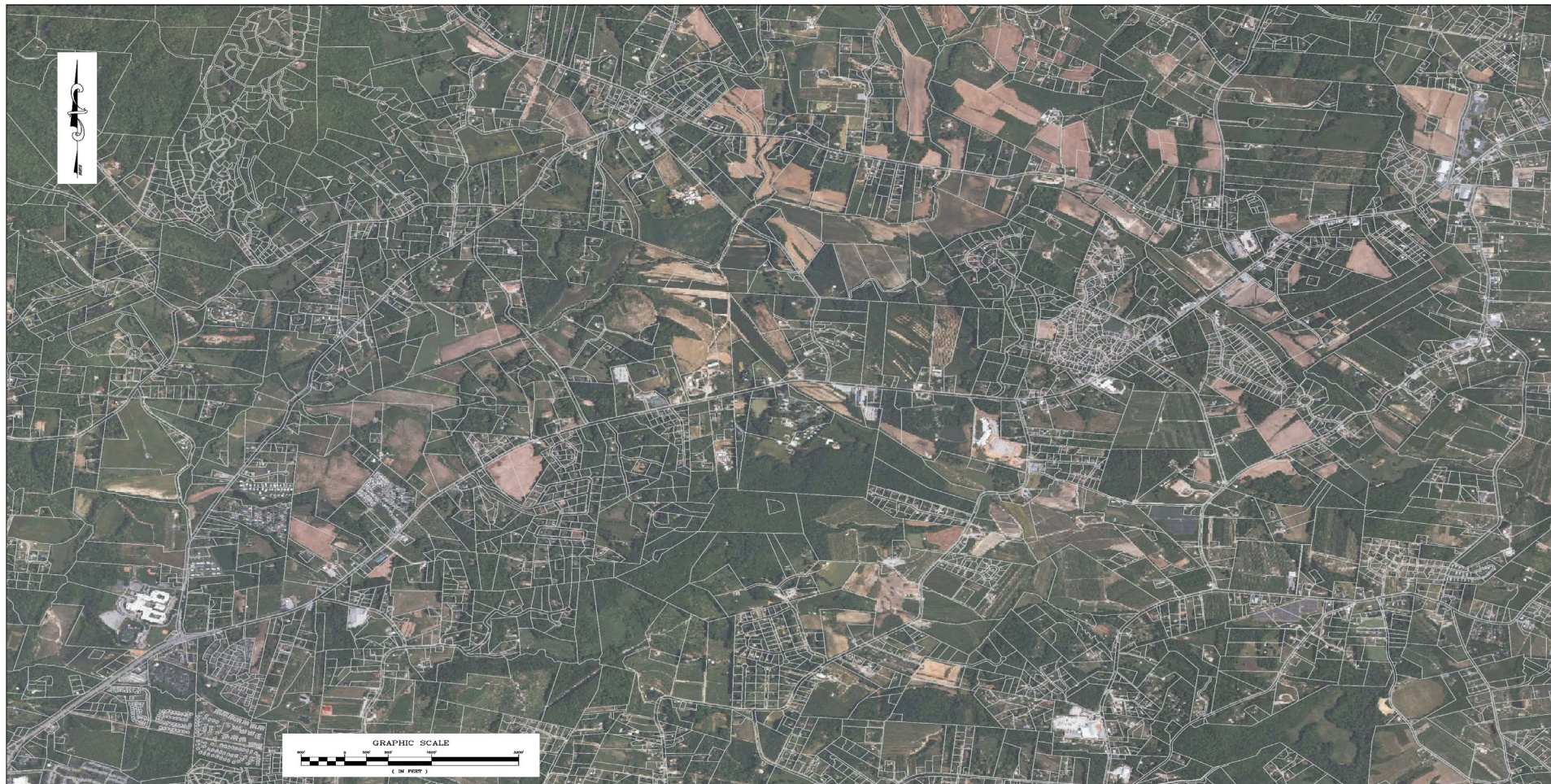
Henderson County, North Carolina



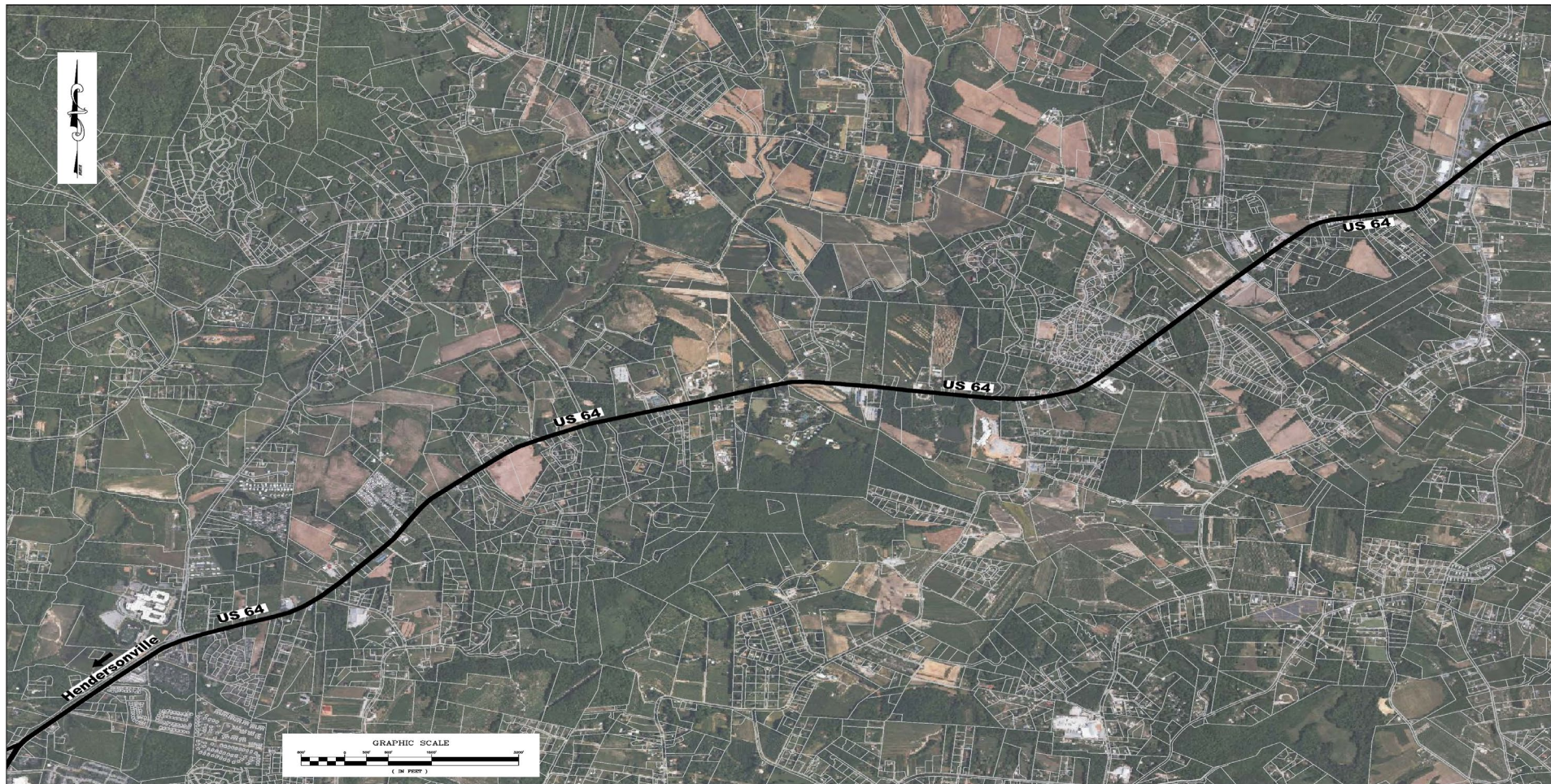
Clear Creek Project History

- ◆ County has been considering sewer service in the Edneyville community prior to the construction of the new Edneyville Elementary School.
- ◆ County completed Preliminary Engineering Report with KCI in July 2021.
- ◆ Report identified numerous options for providing sewer service to the area ranging in cost from \$2 million (Edneyville Elementary School only) - \$60 million +/-.
- ◆ State budget has allocated \$12.7 million in funding for the project. County has allocated \$9.3 million in ARPA funds for the project. Finally, the County reserved \$2 million in funding from the Edneyville Elementary project for sewer service and the Justice Academy has a reserve of \$0.73 million.
- ◆ In May 2024 NCDEQ issued a discharge permit a new wastewater treatment plant on Clear Creek.

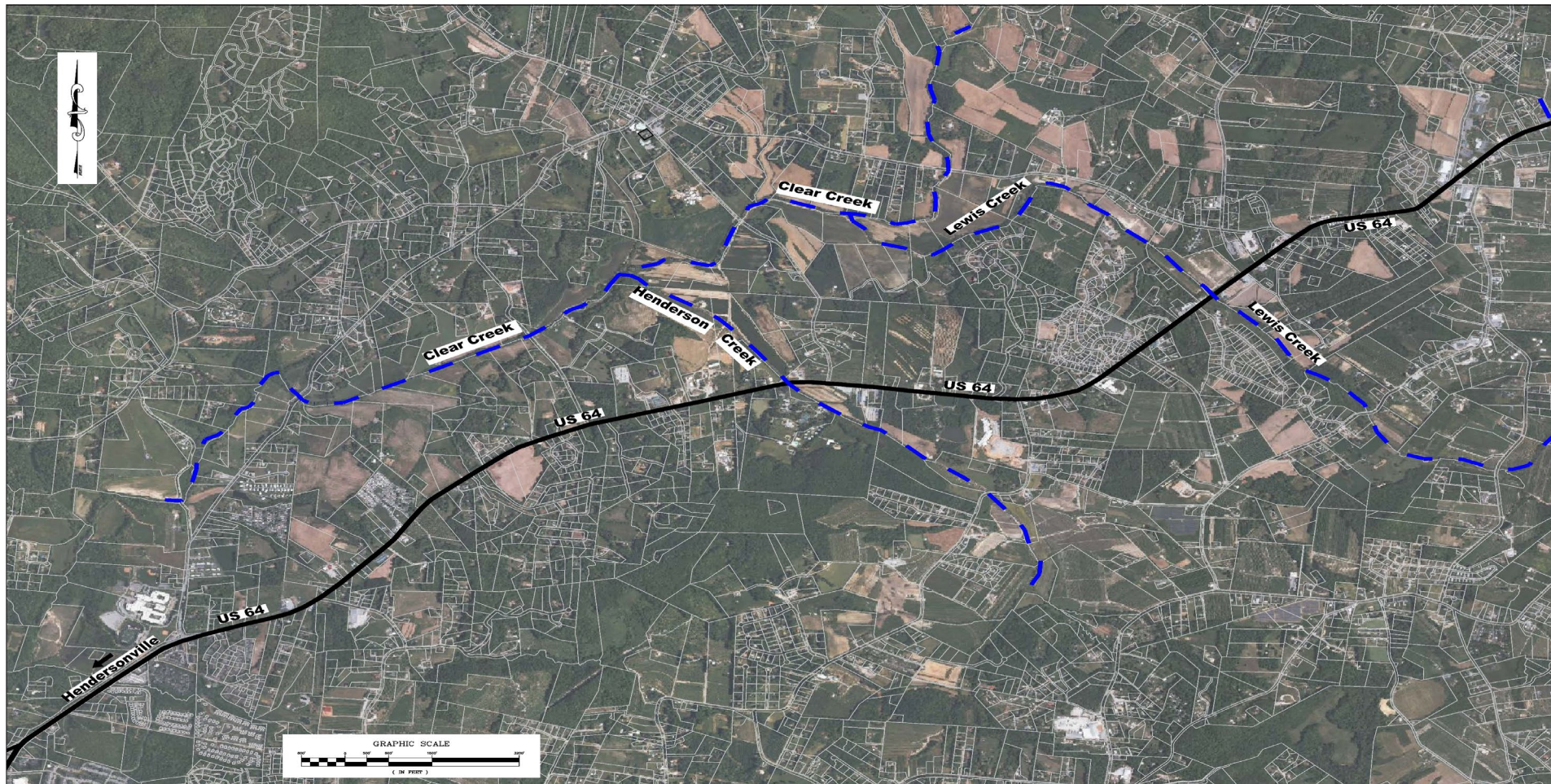
Clear Creek Study Area



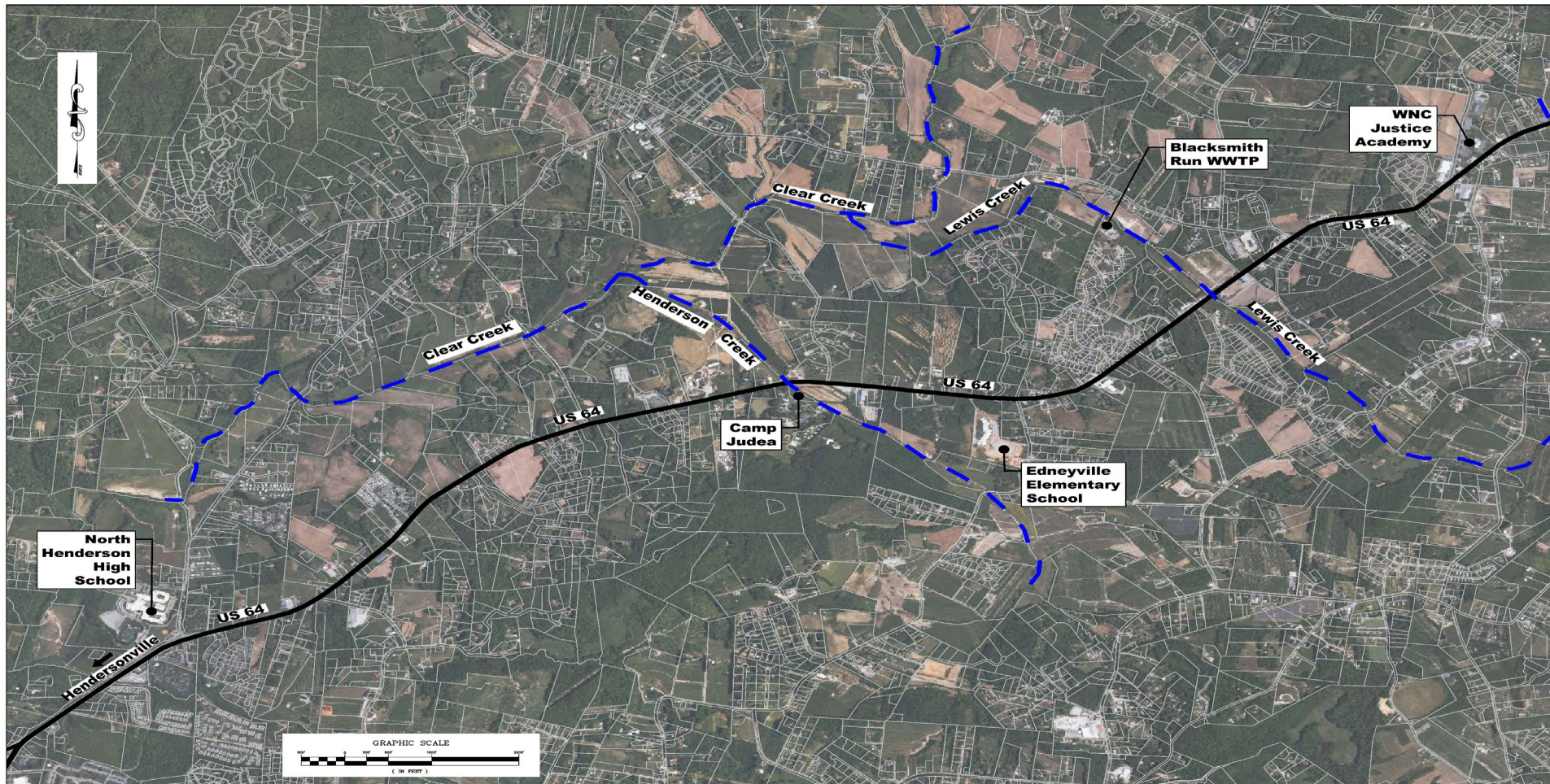
Clear Creek Study Area



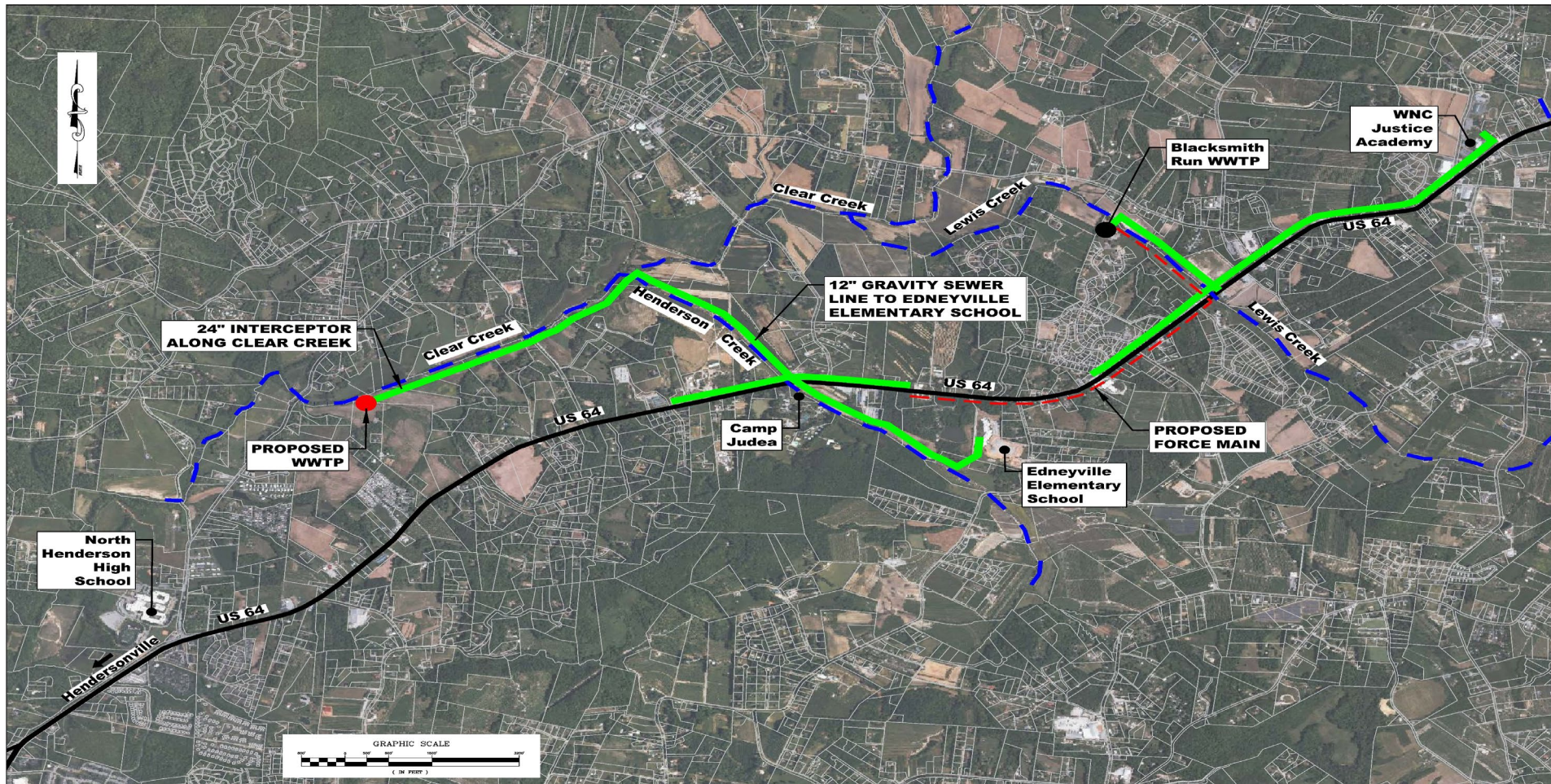
Clear Creek Study Area



Clear Creek Study Area



Clear Creek Proposed Project



Clear Creek

Estimated Costs

- ◆ 2021 Estimated Costs - \$20 Million
- ◆ 2022 PER Estimate - \$20.2 Million
- ◆ 2023 EAA Estimate - \$22.5 Million
- ◆ Current Estimate - \$32 Million*

Possible Cost Reductions:

-Eliminate/delay sewer collection along US 64 - \$2.7 Million +/-

-Replace gravity line to Justice Academy with pump station and force main - \$1.0 Million +/-

Current estimate includes required permit changes from NCDEQ and updates collection system costs from 2021.

Clear Creek Estimated Costs

- ◆ WWTP & Influent Pump Station \$10,566,000 +/-
- ◆ 24" Gravity Interceptor - \$4,000,000 +/- (6,600 LF +/-)
- ◆ Smaller Diameter Sewer (8" & 12") Cost - \$2,000,000/mile +/-

Next Steps

- ◆ Preliminary design is being completed now and moving into final design.
- ◆ Easement acquisition and permitting will take place 3rd Quarter 2024 – 1st Quarter 2025.
- ◆ Bidding and contractor selection will take place over 1st Quarter and 2nd Quarter 2025.
- ◆ Construction scheduled for mid 2025 – end of 2026.