



MAC Quick Sheet

May 1, 2025

ERS System Response Issues

The MAC Earthwork Record System (ERS) consumes a very large amount of device memory, On complex projects where there is extensive testing in deep fill areas, multiple phases, stepped construction sequence for construction types like retaining walls, drainage structures, and pipe runs the amount of data will overload your computer memory.

Even after lift and shift to the new cloud server, the system will continue to experience slow response times until the project team has a chance to revise the plot programming to be more efficient. We ask for your patience while the code is upgraded.

In the meantime, there are a few steps you can take to maximize device memory. Some of these may require assistance from your company or organization's Information Technology personnel. FDOT is not permitted to assist non-FDOT users with device settings such as installing a browser, adjusting browser settings, or disabling extensions.

Suggested Browser Tips:

1. Don't continue to click on a non-responsive screen; for example, refreshing plots. Give MAC time to respond to each click. Clicking again before MAC has completed retrieving the data just adds a new retrieval before the first one is complete. Multiple clicks causes MAC to try to load retrievals for however many clicks you performed at the same time and increases the memory requirement with each click.
2. Clear your browser cache and cookies on a regular basis and whenever you experience slow response times.
3. Close all other tabs. The more tabs you have open, the more memory is used up.
4. Disable your browser's extensions. Extensions can sometimes consume your computer's free memory or cause other glitches.
5. Restart your computer periodically.
6. Ensure the browser is up to date.
7. Firefox was the suggested browser, but with these recent change to MAC plots, the Firefox browser freezes and continues to load until the graphics memory runs out. The best recommended browser is Microsoft Edge. Chrome can also be used. Users can try each to see which one responds best with plots, especially those with extensive samples. The Department no longer permits FDOT personnel to use Firefox due to security vulnerabilities.

2. Drainage

MAC displays the first 30 pipe runs.

- a. Enter all or part of a pipe run name in the filter by pipe name field. For example, you can use the starting or ending pipe structure number.
- b. If you're not sure which pipe name to select, select a pipe type from the dropdown.
- c. Select the Search option to narrow down the list to the ones matching the search criteria.
- d. Select the View Plot option on the pipe run you want to see.
MAC will not plot the pipe run until you select at least one filter. If the pipe run is short and not too deep, you may be safe to select 0 in the Minimum X Axis field. You must click out of the field to get MAC to display the plot.
- e. If the pipe run is long or deep and was constructed in phases, additional filters may be needed to narrow in on the area where pipe construction is currently being performed.
- f. MAC will not display the samples on the plot until you select the "Show Samples on Plot?" option.