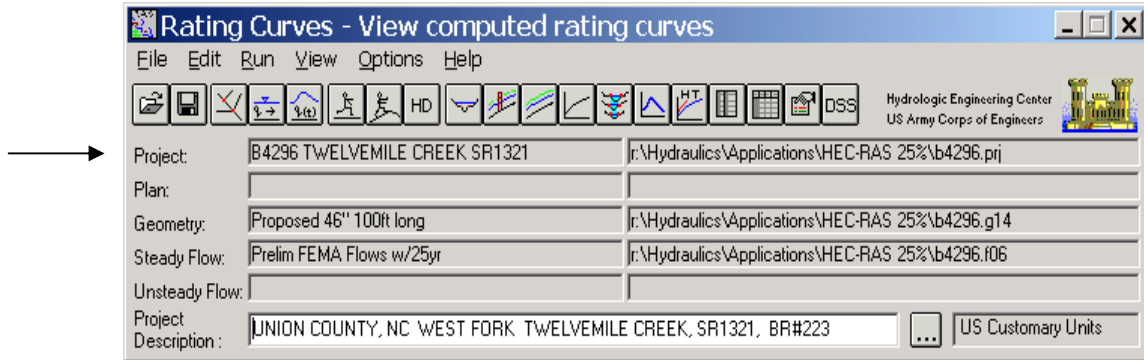


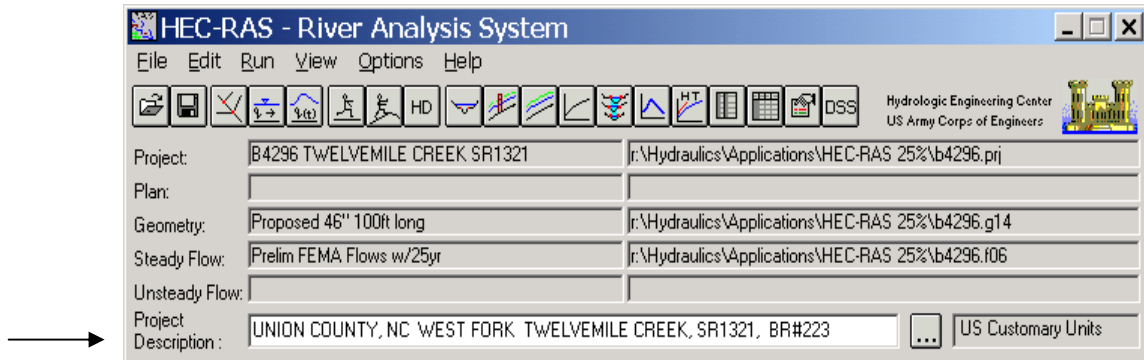
HEC-RAS Model File Nomenclature for Flood Insurance Studies

In an effort to improve the file organization and description of our models, the following HEC-RAS File Nomenclature should be utilized.

The Project Title should contain the respective TIP, the name of the stream or creek, and the SR Number.



The Project Description should remain the same as reflected in the model received from FEMA or NC Floodplain Mapping.



The Plan and Geometry Files should be named according to the data reflected in the files; Duplicate Effective, Corrected Effective, Existing or Revised.

Use only the term *Duplicate Effective* for the Plan and Geometry that reflects the effective information received from the regulating agency. As defined by FEMA, these files should be a copy of the hydraulic analysis used in the effective FIS, also known as the effective model. When we run the copy of the effective model on our computers in an effort to duplicate or match the published information, the respective Plan and Geometry should be labeled *Duplicate Effective*.

When we add any additional cross sections, correct any errors, or incorporate more detailed topographic information in the Duplicate Effective Model, we should save this Plan and Geometry as *Corrected Effective*.

If man-made topographical changes have occurred since the effective model, we should incorporate these changes in a Plan and Geometry File labeled as *Existing*. In most cases, an *Existing Model* will not be applicable.

When we add our proposed structure and roadway features to the Corrected Effective Model, we should save this Plan and Geometry as *Revised*.

The Steady Flow File should remain the same as what we received from FEMA or NC Floodplain Mapping.

As always, Engineers should use their own engineering judgement when coding in guardrail. At a minimum, the entire bridge rail and the full height of the guardrail should be coded in the bridge deck/editor until the first 6' 3" guardrail post spacing is reached. There may be situations where coding in the full height and length of guardrail may be warranted.

Limited Detailed Study and Detailed Study Models received from FEMA or NC Floodplain Mapping should not be truncated. Re-delineated models may be truncated if desired. Re-delineated projects map existing model water surface elevations upon new, LIDAR (Light Detection and Ranging data) ground elevations.