Proposed RCB Bridge Packet

Summary Sheet USE FILLABLE PDF SUMMARY SHEET PROVIDED- *This must be signed, sealed, and dated.*

The following must be included:

- Fill in all applicable yellow shaded boxes.
- Upper left hand corner include initials and date on each revision and description of each revision made.
- Center top include county, project number, job piece number, highway, waterway name and NBIS number of existing bridge.
- Drainage areas list each: total, controlled, and effective (contributing) areas in square miles
- Description of existing, proposed, and detour structures include number of cells, bridge length, skew, and cell height, slope, inlet elevation, and centerline station of each structure and offset distance and distance and direction if needed in the appropriate shaded boxes.
- Provide proposed hydraulic data (discharge, computed high-water elevations, and velocities) for 2, 5, 10, 25, 50, 100 and EITHER the overtopping OR 500 year, whichever occurs first. CHW data from upstream outside contraction reach and velocity data from culvert outlet (DS face).
- When filling in the Q, CHW, and the V columns in the summary table, you can cut and paste from the HEC-RAS table columns.
- Fill in curtain wall depths in the Notes section. Notes should include any channel work that may be needed and anything the contractor needs to know that is not standard.
- On the second page of the Summary Sheet, fill in the yellow boxes with the information called out.

Comparison Table USE EXCEL SPREADSHEET PROVIDED

The following must be included:

- Fill in all applicable yellow shaded boxes.
- Upper left hand corner include date, initials, and description of any revision made.
- Center top include county, project number, job piece number, highway, waterway name and NBIS number of existing bridge.
- Description of existing, proposed, and detour structures include number of spans or cells, span length, skew, and type of beam or cell height, total span bridge length or RCB slope, low beam elevations (spans) or inlet elevation (RCB) in the appropriate shaded boxes.
- Provide hydraulic data (discharge, computed high-water elevations, and velocities) for 2, 5, 10, 25, 50, 100, 500 and the overtopping year for the natural, existing, and proposed models and compute backwater. The computed high-water elevations need to be taken from a control cross section. CHW data from upstream outside contraction reach and velocity data from culvert outlet (DS face).
- If located in FEMA zone AE, please provide addition FEMA check line. See instructions.
- Provide the roadway overtopping elevation, overtopping discharge, and overtopping frequency if less than 500 year.
- Use a MAXIMUM of one alternative structure in the comparison table.

Drawings

The following must be included:

- Hydraulics plan and profile (see checklist and example for details to be included).
- Flowline plan and profile (see checklist and example for details to be included).
- Separate shoo-fly drawing if needed.