

XIII. DRAINAGE

- A. Perform a spot check of drainage calculations for:
 - 1. Proper/applicable design methods and procedures.
 - 2. Completeness and accuracy.
 - 3. Change in flow patterns and diversions.

- B. Review drainage that would have a direct effect on the roadway.
 - 1. Check for adequate pavement drainage and proper placement of drainage structures.

 - 2. Check the location and method by which pavement drainage is conveyed away from the travelway.

- C. Review drainage structures.
 - 1. Check existing structures (storm sewers, ditches, etc.) for adequacy to convey the runoff that will come to them in conformance with applicable criteria/requirements.
 - 2. Check hydraulic design of proposed drainage facilities for conformance with applicable criteria/requirements.
 - 3. Check for proper treatment at ends of drainage facilities (riprap, paved ditches, etc.).
 - 4. Check detention facilities for required hydraulic performance, proper outfall, and adequate roadway protection.

- D. Review erosion control.
 - 1. Check for current and potential erosion and siltation problems.
 - 2. Check for impact of the development.
 - 3. Check for the adequate placement of erosion control devices.

- E. Check involvements with regulatory flood plains and/or the 100-year flood zone.

- F. Check to ensure that all necessary drainage easements have been designated.

XIV. REVIEW COMMENTS

- A. Prepare written review comments. The comments should be well organized, clear, direct, and specific. Problems should be clearly defined and, when desired, actions to be taken to resolve each problem should be stated.