

In order to provide water level information on the highway plans that is complementary to other project documentation, only the following data are to be shown on the profile sheets when the project crosses or parallels a waterway:

- 1) Ordinary High Water is to be shown in lieu of normal water on non-tidal stream crossings. Normal water elevations provided by field survey will not be shown. The ordinary high water elevation will be supplied by the appropriate drainage engineer.
- (2) Mean high tide and mean low tide will be shown on all tidal stream crossings. These elevations will be supplied by the appropriate drainage engineer. The tidal data provided by field survey or other source will not be shown.
- (3) The maximum historical high water elevation will be shown for all stream crossings where such data is available. The plan designation shall read high water elevation, date of occurrence, flood frequency if known, e.g., High Water Elevation 465.3' (141.8 m) August 1940, 50 year  $\pm$  flood. The flood frequency will be determined by the appropriate drainage engineer.

### **BENCH MARKS AND PERMANENT TURNING POINTS**

All benchmarks and permanent turning points, as shown in the data collector, are to be shown on the survey data sheet. All survey processing units have the facilities to develop the survey data sheet. All survey plan assemblies will include the sheet(s).

### **HORIZONTAL ALIGNMENT AND VERTICAL CONTROL DATA\***

- A Survey Alignment Data Sheet containing the project horizontal survey alignment and vertical controls, along with corresponding reference data, is furnished along with the project survey plan sheets by the Survey Section (See attached example). The Survey Alignment Data Sheet eliminates the need to show reference points and bench marks on the plan and profile sheets.
- A Horizontal Construction Alignment Data Sheet, plotted from the alignment data files, will be utilized on all projects.
- The sheet(s) will be made a part of the plan assembly in accordance with the guidelines contained in the Road Design Manual (Preparation of Supplemental Sheets – Index, Section 2E-56).
- The Survey Alignment Data as furnished by the Survey Section will accompany any requests for additional survey.
- Projects not requiring Alignment Data include No Plan, Landscape, Signal, Maintenance and projects without surveys.

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\* Rev. 7/08