INTEROFFICE MEMORANDUM

DATE: August 6, 1971

TO: Bridge Design Personnel

- **FROM:** Veral Pinkerton, Bridge Engineer
- SUBJECT: Hydraulic Information on Bridge Layouts

The following hydraulic information shall be shown on all bridge layouts of stream crossing when available.

On the Elevation:

Historical high water; from survey data or other sources.

Note: This high water should be used to set the minimum bridge deck elevation unless the 50 year discharge occurs at a higher elevation. Show clearance to this high water line.

Under the Elevation:

Drainage Area Design discharge Frequency of design discharge Stage elevation of design discharge Backwater increment at design discharge

Example: Drainage area 10.0 sq. mi.

Q50 = 3000 cfs at Elev. 431.6 Backwater = .4'.