



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

September 13, 2005

**MEMORANDUM TO:** Mr. Jay A. Bennett, PE, State Roadway Design Engineer  
**FROM:** D. R. Henderson, PE, State Hydraulics Engineer  
**SUBJECT:** Hydraulic Design Revisions

It has been brought to our attention that some confusion exists as to who is responsible for design revisions to the Drainage File. In the past, the Roadway Engineer may have completed design changes agreed upon at field inspections with the Divisions.

With the migration to Microstation V8, the Roadway Engineer no longer has the necessary files in the CADD Standards to place Hydraulic Design Elements. Therefore, from this point on, the Hydraulic Engineer is responsible for all design changes which need to be made to the Drainage File.

DRH/aph

cc: Mr. Art McMillan , PE (Highway Design Branch)  
Mr. D. S. Chang, PE

**Please look at next page for questions and answers about this memo.**

# Revolving Questions and Answers to Memo

## **Question:**

Does this include clean up work? How about the re-labeling of drainage structures such as 2GI's to DI's? How about the placement of the box in the ditch (since they don't draw the ditch, they can't place the box correctly). How about drawing the ditch itself.

## **Answer (from Hydro):**

To help clarify what Roadway can do in the drn file -

Roadway can

- move text (including structure number symbol)

- move details

- draw proposed ditches

Roadway can't

- edit drainage related labels

- move drainage structures

Some of this is because Roadway users do not have access to the Hydro's dgn libraries and cell libraries. Some Hydro users have begun using Geopak Drainage to do their drainage design. Moving structure would require editing the GDF file.