



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

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GOVERNOR

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SECRETARY

October 14, 2004

MEMORANDUM TO: John Emerson, PE  
State Bridge Maintenance Engineer

FROM: CECIL L. JONES, P.E.  
State Materials Engineer

SUBJECT: Joining Dissimilar Pipe Materials

Questions have arisen concerning the joining of dissimilar pipe materials such as connecting existing galvanized pipe to new aluminized pipe. Our Unit conducted an investigation into this matter and found that this practice would not be a performance problem if the following criteria are met.

1. Both pieces of pipe must be clean and free of any signs of corrosion.
2. If evidence of corrosion is found, then the pipe must be repaired according to procedures outline below.

Procedures for repairing corrosion of galvanized pipe.

1. Clean visible rust from the surface of the pipe.
2. Use organic zinc repair paint meeting the requirements of 1080-9 of the Standard Specifications.

If you have any questions concerning this matter, please contact Chris Peoples at 919-733-3532

CLJ:rkp

Cc Steve DeWitt, PE  
Steve Varnedo, PE  
Lacy Love, PE  
Division Engineers  
Dave Henderson, PE