

Please inform your squads.

STATE OF NORTH CAROLINA Department of Transportation

LAMES B. HUNT IR. GONERNOR

P.O. BOX 25201, RALEIGH N.C. 276H-5201

E. NORRIS TOLSON SECRETARY

MEMORANDUM TO:

Bob Brown, PE

Danny Burwell, Jr., PE

Ken Creech, PE Carl Goode, PE Archie Hankins, PE Cecil Hinnant Bill Moore, PE

Bill Rogers, PE Tom Shearin, PE

FROM:

Len Hill, PE

DATE:

February 6, 1998

SUBJECT:

Stream Avoidance and Minimization

Recent changes in environmental regulations require the DOT to mitigate stream impacts such as channel changes and piping. Please consider streams similar to wetlands as a natural resource to be avoided and minimized. During preliminary and right of way design, consider reasonable alignments that avoid or minimize stream impacts. Consider measures such as retaining walls and bridging, where reasonable, to further reduce impacts. On channel changes that are needed, please allow sufficient right of way for meanders and other stream relocation enhancements. This effort will require close coordination with P&E and the resource agencies. Our efforts in this area will help in obtaining the necessary environmental permits.

Thank you for your assistance in this area. Please contact me if you have any questions or we need to discuss.

RLH:st

CC:

Don Morton, PE Frank Vick, PE Calvin Leggett, PE

Craig Deal

ROADWAY DESIGN UNIT RECEIVED FILE FEB 0 6 1998 3 Min

