



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

November 24, 2021

MEMORANDUM

TO: Lamar Sylvester, PE, Director of Field Support

FROM: Don Parker, PE State Work Zone Engineer

DocuSigned by:

Don A. Parker

NOV 24, 2021

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SUBJECT: Anchoring Portable Concrete Barrier Type K in Asphalt Pavement
(UPDATE)

This is an update to the July 6, 2021 memorandum issued by the Work Zone Traffic Control Section which stated the non-proprietary K wall barrier system design currently on the approved products list would be permitted to be anchored into asphalt pavement using the NCHRP 350 approved method until a suitable and practical MASH-16 approved solution becomes available. This method requires a 1 ½" diameter A36 steel pin, a minimum of 36" long with a 3" x 3" x ½" A36 steel cap installed in each of the three holes on the traffic side of each barrier segment.

This matter was addressed at the Department's MASH Committee meeting held September 22, 2021 and it was decided that the above described anchoring method would be permitted with the following requirement:

When the anchored K wall is shielding an excavation, there shall be a minimum of 24" of paved asphalt surface between the back (non-traffic) side of the K wall and the excavation. If the 24" of paved asphalt surface cannot be attained, then an approved alternative shall be utilized.

Any comments pertaining to this should be directed to myself or Karmen Dais at (919) 814-4935 or by email at daparker@ncdot.gov or kedais@ncdot.gov

DAP/dap

cc:

NCDOT MASH Committee

Joe Hummer, PE, PhD, Transportation Management Engineer

Brad Hibbs, PE, FHWA

Ron Davenport, PE, State Contracts Engineer

Boyd Tharrington, PE, State Construction Engineer

Victor Barbour, PE, Carolinas AGC

Tom Bell, President, Carolinas ATSSA Chapter