

TIP # U-2717
Date: 7/6/04
Revised Date:

WATER FILLED BARRIER

DESCRIPTION.

Furnish, install, secure, maintain, remove, and reset Water Filled Barrier. In addition, provide an environmentally safe anti-freezing agent when required, in accordance with the plans and specifications.

MATERIALS.

(A) General:

Provide Water Filled Barrier that meets or exceed the requirements of NCHRP 350 Test Level II for work zones which have a posted speed limit of 45 mph (72 km/h) or less. Provide Water Filled Barrier that acts as it's own free standing, non-redirective end treatment

(B) Material Qualifications:

Use Water Filled Barrier which is on the North Carolina Department of Transportation's Approved Products List or is Traffic-qualified by the Traffic Control Section. For more information on the Traffic-qualification process, contact the Traffic Control Section at Century Center Building B, 1020 Birch Ridge Dr., Raleigh, NC, 27610 (919) 250-4151, or see the approved product list on NCDOT web site at:

"www.doh.dot.state.nc.us/preconstruct/traffic/congestion/tc/".

(C) Historical Performance:

Historical performance of the Water Filled Barrier will be used in determining future use of the material by the NCDOT, even if the Water Filled Barrier has been traffic-qualified. Poor past or poor current performance of Water Filled Barrier at any site, whether or not related to a specific contract may be grounds for non-acceptance of a product on any project under contract.

CONSTRUCTION METHODS.

Place and install Water Filled Barrier only on roadways with posted speed limits of 45 mph (72 km/h) or less.

Place and install Water Filled Barrier units as shown in the plans and per manufacturer specifications.

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Use environmentally safe anti-freezing agent in the water per manufacturer specifications and recover agent when the barrier is drained.

Do not drain Water Filled Barrier into or across an existing travel lane. Provide barrier units that are capable of being lifted and moved when filled if draining is not possible.

Furnish delineators for Water Filled Barrier which meet the requirements of Section 1088-2 and Section 1170-3, (E) of the 2002 Standard Specifications.

MAINTENANCE.

Maintain Water Filled Barrier in accordance with Section 1105-4 of the 2002 Standard Specifications.

METHOD OF MEASUREMENT.

The method of measurement will be in accordance with Section 1170-05 of the 2002 Standard Specifications.

There will be no measurement made of barrier delineators as they are considered incidental to the other pay items in this special provision.

BASIS OF PAYMENT.

The quantity of Water Filled Barrier, measured as provided above, will be paid at the contract unit price per linear foot (linear meter) for "Water Filled Barrier".

The quantity of resetting Water Filled Barrier, measured as provided above, will be paid at the contract unit price per linear foot (linear meter) for "Reset Water Filled Barrier".

There will be no direct payment for barrier delineators as they are considered incidental to the other pay items in this special provision.

Payment will be made under:

Water Filled Barrier	Linear Foot (Linear Meter)
Reset Water Filled Barrier	Linear Foot (Linear Meter)

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POLICE

DESCRIPTION.

Furnish Police Officers and marked Police Vehicles to direct traffic in accordance with the plans and specifications.

CONSTRUCTION METHODS.

Utilize Police Officers who are outfitted with police uniforms.

Utilize marked Police Vehicles, which are equipped with police lights mounted on top of the vehicle, and police vehicle emblems.

Utilize Police Officers and marked Police Vehicles to direct or control traffic as required by the plans or by the Engineer.

METHOD OF MEASUREMENT.

The quantity of Police Officers and marked Police Vehicles to be paid for will be the actual number of hours that each Police Officer/marked Police Vehicle is provided during the life of the project as approved by the Engineer.

There will be no direct payment for marked Police Vehicles as they are considered incidental to the pay item in this special provision.

BASIS OF PAYMENT.

The quantity of Police Officers and marked Police Vehicles measured as provided above, will be paid for at the contract unit price per hour for "Police".

Payment will be made under:

Police.....Hour