

TIP #: U-3326A/B

Date: 5/24/2011

Revised Date:

WATER FILLED BARRIER:

3-20-07

SPI

Description

Furnish, install, secure, maintain, remove, and reset Water Filled Barrier in accordance with the contract.

Materials

(A) General

Provide Water Filled Barrier that meets the requirements of NCHRP 350 Test Level II for work zones that have a posted speed limit of 45 mph or less. Provide Water Filled Barrier that acts as its own free standing, non-redirective end treatment. 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. Dispose of water and agent properly.

(B) Material Qualifications

Use Water Filled Barrier that is on the Approved Products List or is Traffic-qualified by the Work Zone Traffic Control Unit. For more information on the Traffic-qualification process, contact the Work Zone Traffic Control Unit at 750 N. Greenfield Parkway, Garner, NC, 27529, (919) 773-2800, or see the approved product list on NCDOT web site at: www.ncdot.org/~wztc

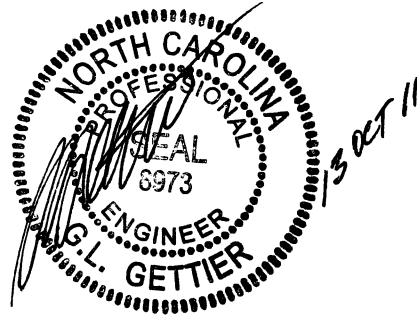
(C) Historical Performance

Historical performance of the Water Filled Barrier will be used in determining future use of the material by the Department, regardless 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 units as shown in the plans and per manufacturer specifications on roadways with posted speed limits of 45 mph or less.

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



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Measurement and Payment

Water Filled Barrier will be measured in accordance with Section 1170-4 of the *Standard Specifications* and paid for in linear feet.

Resetting Water Filled Barrier will be measured in accordance with Section 1170-4 of the *Standard Specifications* and paid for in linear feet.

There will be no direct payment for barrier delineators as they are considered incidental to these pay items.

Payment will be made under:

Pay Item

Water Filled Barrier

Reset Water Filled Barrier

Pay Unit

Linear Foot

Linear Foot

1.00 PORTABLE CONSTRUCTION LIGHTING

1.10 DESCRIPTION

Work covered by this section shall be in accordance with Section 1413 of the Standard Specifications except as modified below.

1.20 MATERIALS

Use materials as specified in Section 1413-2.

1.30 TOWER LIGHT

Use tower lights as specified in Section 1413-3.

1.40 MACHINE LIGHTS

Amend Section 1413-4 to include the following:

Balloon lights are an acceptable alternate luminaire for machine lights.

1.50 CONSTRUCTION METHODS

Use construction methods as specified in Section 1413-5.

1.60 MEASUREMENT AND PAYMENT

Measurement and payment for Portable Construction Lighting shall be in accordance with Section 1413-6 of the Standard Specifications.