

**STATE****OF****TENNESSEE**

(Rev. 12-15-20)

(Rev. 2-13-23)

January 1, 2021

**SPECIAL PROVISION****REGARDING****TRAFFIC QUEUE PROTECTION****Description**

This work consists of providing Traffic Queue Protection when Work activities are performed on control-access or limited access facilities. Pursue efforts for the protection of traffic queues caused by project Work and clearly demonstrate adequate good faith efforts. The queue protection trucks are expected to alert motorists (inside or outside of project limits) of all stopped traffic caused by Work activities or incidents within the project limits.

**Equipment**

For projected queues of less than 1 mile, provide a minimum of one (1) queue protection truck for each traveling direction where traffic flow is reduced. One (1) additional queue protection truck shall be onsite in reserve.

For projected or observed queues of greater than 1mile, two (2) Queue Protection Trucks shall be operational.

The queue trucks deployed shall meet the following minimum requirements:

1. A truck mounted attenuator that meets the requirements of and be listed on the Department's Qualified Products List.
2. Four (4) strobe lights (with auto-dimmers) positioned rear facing
  - a. Two (2) mounted under rear bumper
  - b. Two (2) mounted at cab level
3. One (1) standard cab mounted light bar.
4. A truck mounted message board with a full matrix display and a minimum panel size of 72" W x 35" H mounted as per manufacturer specifications and in accordance with Sections 2L.04 and 6F.60 of the MUTCD for Portable Changeable Message signs

5. All Queue truck operators shall have the following mandatory training:
  - a. Four Hour National Traffic Incident Management (TIM) Responder Training for Queue Truck Operators, or
  - b. Approved equal training program developed by ATSSA, or
  - c. The National Safety Council.

### **Maintenance of Traffic**

The following procedures will be followed until free flow traffic conditions are present: (“free flow” is defined as the absence of a temporary lane or shoulder closure or absence of a temporary shift of traffic lanes with no queue present).

1. The queue protection trucks shall be positioned approximately 1/2 to 1 mile upstream from the back of the slow moving traffic. During use of the 2 or more queue protection trucks, the trucks should not be any closer than 1/2 mile from the other truck.
2. The queue protection trucks shall be positioned on the shoulder and clear of the traveled way so as not to impede traffic, and shall reposition as the length of the queue changes
3. The use of the 2 queue protection trucks shall be to relocate as needed to maintain approximately 1/2 to 1 mile distance from the back of the slow moving traffic Queue protection trucks that do not adjust position during the course of the operation and fail to provide adequate queue protection will be considered as not meeting specification and will not be paid for that day.
4. The 2nd queue protection truck shall be held in reserve, on site, and support the primary truck if conditions prevent repositioning by reverse or if the primary truck is otherwise unable to effectively manage the queue. This truck shall not be paid for idle time.
5. The queue protection trucks and operators shall be onsite and ready to be utilized during planned lane closures and other project activities expected to cause a queue.
6. Queue length estimates and traffic conditions shall be reported to the Engineer or designee at the following periods:
  - a. At 30 minute intervals.
  - b. At significant changes.
  - c. When free flow traffic is achieved.

### **Method of Measurement**

The Department will measure, by the day, the Queue Protection Truck, for each truck providing queue protection. Idle or standby time shall be included in the bid price. A day is defined as a work shift. A work shift will be considered 12 hours or less depending on the project schedule.

**Basis of Payment**

The Department will pay for accepted quantities, complete in place, at the contract prices as follows:

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>
712-08.12	QUEUE PROTECTION TRUCK	DAY

Such payment will be full compensation for all work specified including labor, materials, equipment, tools, and incidentals to complete the work.

If at any time the Department determines that a queue protection truck is not pursuing the efforts for the protection of traffic queues caused by project Work and not clearly demonstrating adequate good faith efforts, the Engineer shall not pay for the Queue Protection Truck for that day.