

## 152 – HAULING AND WEIGHING EQUIPMENT

### SECTION 152

#### HAULING AND WEIGHING EQUIPMENT

##### 152.1 HAULING EQUIPMENT

**a. Aggregate Hauling Equipment.** Use vehicles with dump bodies of standard manufacture, designed for dumping materials in windrows or into spreader boxes. Use vehicles with bodies constructed and maintained to prevent loss of materials during the hauling operations. Equip the vehicles with dump controls that are operated from the driver's seat.

**b. Asphalt Hauling Equipment.** Use vehicles with dump bodies of standard manufacture, designed for dumping materials in windrows or into spreader boxes. Use vehicles with smooth metal bodies constructed and maintained to prevent loss of materials during the hauling operations. Equip the vehicles with dump controls that are operated from the driver's seat.

During the hauling operations apply a thin coat of an approved material to prevent the asphalt from adhering to the beds. The Engineer must approve the coating material before it is used. Do not use petroleum derivatives for coating the beds. Remove any excess coating material before loading the asphalt into the bed.

Equip each vehicle with a tarpaulin to protect the asphalt from the weather. Use tarpaulins that are waterproof and free of holes and tears. The tarpaulins shall be large enough to cover the top of the load and extend down over the sides and tailgate of the vehicle. Use enough tie-down points to secure the tarpaulin to the vehicle and prevent flapping in the wind during the hauling operations. The Engineer may approve alternate methods of securing the tarpaulin, provided the asphalt is completely covered, and the tarpaulin is secured.

**c. Water Hauling and Distributing Equipment.** Use pneumatic-tired water equipment (calibrated tanks of 1000 gallon capacity or larger) equipped with spray bars and pressure pumps to haul and distribute water. Equip all water tanks with control valves that are operated from the driver's seat. Provide the Engineer with the means to verify the calibration of the water tanks.

The requirement for the pressure pump may be waived on force account projects, subgrade modification projects and fly ash treated subgrade projects.

Water may also be transported by pipelines equipped with calibrated meters placed as close to the point of delivery as possible. Provide the Engineer with the means to verify the calibration of the water meters.

##### 152.2 WEIGHING EQUIPMENT

Use and maintain weighing devices (mechanical or electronic) at locations approved by the Engineer. Have the weighing devices tested, certified and sealed by a licensed service company.

Have the licensed service company test, certify and seal the weighing devices according to:

- all applicable laws for commercial weighing and measuring devices;
- the appropriate Examination Procedure Outline (EPO) prescribed by the Kansas Department of Agriculture, Division of Weights and Measures; and
- the weighing devices shall be accurate to the applicable tolerances specified in the National Institute of Standards and Technology (NIST) Handbook 44 (current edition), United States Department of Commerce, Technology Administration.

Have the weighing devices tested, certified and sealed:

- after each setup and before being used on the project (except for small units such as 3 sack mixers which are moved frequently);
- at 6 month intervals during the life of the project;
- when the weighing devices are repaired; and
- at any other time deemed necessary by the Engineer.

Arrange the beams, dials, platforms and other scale equipment for safe and convenient viewing by the operator and the Engineer. Provide and maintain scale houses as necessary. Install and maintain vehicle scales with

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the platform level, and rigid bulkheads at each end. Use a platform of adequate length to weigh (in 1 operation) the longest truck or truck-trailer combination used on the project. Maintain the approaches to the scale platform.

Provide certified test standards (a minimum of 500 pounds) for use on the project.

For weighing procedures and scale operator requirements see **SECTION 109**.