

SECTION 501

WEIGHING MATERIALS IN TRUCKS

INDEX

- 501.01 SCOPE**
- 501.02 GENERAL**
- 501.03 LOCATION**
- 501.04 WEIGH SCALES**
- 501.05 TESTING AND CERTIFICATION**
- 501.06 ELECTRONIC WEIGH TICKETS**
- 501.07 DETERMINING TRUCK TARES**
- 501.08 LICENSED WEIGHTS**
- 501.09 WEIGHT VERIFICATION**
- 501.10 SCALE HOUSE ACCESS**
- 501.11 USE OF WEIGH SCALES BY ENFORCEMENT OFFICERS**
- 501.12 WEIGHING COSTS**

501.01 SCOPE

This specification covers the Department's requirements for weighing materials in trucks for those instances where payment is based on the weight of the material.

501.02 GENERAL

Where the contract includes items that require measurement for payment by weighing, the Contractor, as part of the work to be carried out under these items, shall provide, install, and maintain as necessary, truck weigh scales meeting the requirements of the Government of Canada Weights and Measures Act and Regulations, and also the requirements of this specification. On completion of the work, the Contractor shall remove temporary scales and scale ramps and clean up and trim the site on which the scale was located. Weighing of all construction materials shall be the sole responsibility of the Contractor. All materials shall be weighed by the Contractor and the truck driver provided with a ticket of the weighed material to be received by a Department of Transportation and Infrastructure official once delivered to the project site.

501.03 LOCATION

Scales for weighing hot mix asphaltic concrete shall be located at a site convenient to the asphalt plant. Scales for weighing other materials shall be installed at locations selected by the Contractor subject to the approval of the Owner's Representative.

When, for the above locations, in the opinion of the Owner's Representative, there is a waste or loss of material between the point of origin and the materials intended destination on the contract, the hauling operation may be terminated by the Owner's Representative until the Contractor has, at his own expense, provided on a site approved by the Owner's Representative, a scale which is close enough to the intended destination to preclude the possibility of waste or loss.

501.04 WEIGH SCALES

The scales shall be of such capacity to accurately weigh any single loaded truck arriving on the site. The Contractor is advised that split weighing will not be permitted under any circumstances. The vehicle being weighed must be fully supported by the scale platform. Split or axle weighing is a method to be used only for highway weight restriction control.

The scale shall be equipped with a portable scale house complete with furniture and adequate provision for heat and light.

Scale house and furniture shall be of a standard not less than that shown on the Department's Portable Scale House plan which is shown in Section 1202 for Beam type Scales and Section 1204 for Electronic Scales. Should the Contractor wish to supply a scale house or furniture other than that shown on the plan then prior written approval by the department will be required before substitution may be made.

Scales may not be used for weighing materials on the contract unless the scale house heater and lights are in working order.

The Contractor shall periodically clean the scale house and maintain all lights and heating in good working condition at all times when the scales are in use. The lights shall provide adequate lighting for general office work and the heater must be able to maintain the temperature in the scale house at 20 degrees Celsius.

In order to minimize the effect of impact loads on the scale adjustment and to reduce the effect of vehicle braking and kickback on the scale platform and scale adjustments, the approach ramp shall be constructed on a straight and level grade at the same elevation as the scale platform, for a distance at least equal to the length of the scale platform.

Vehicles shall enter and leave the platform at a speed not exceeding 8 kilometers per hour.

The scale platform and mechanism shall at all times be maintained clean and free from encumbrances such as gravel, asphalt, snow, and ice.

Scale houses must be equipped with suitable washroom facilities that meet the OHS Act and Regulations under Sections 61 and 62 of the Regulations. These facilities must be located within 100 meters of the scale house.

The sanitary provisions shall be in accordance with the various Provincial Government and Municipal Government Regulations.

If portable toilets are used they must be a minimum of 2 metres (height) x 1 metre x 1 metre and must be approved by the Government Service Center. The Contractor shall transport the waste from these units, using a collection company (whenever possible) licensed by the Government Service Center.

Toilet facilities must also be approved by the Owner's Representative. These facilities must be cleaned twice weekly and in the case of a portable toilet, emptied of sewage as well. Contractor must also supply toiletries for the facility. Also, adequate and suitable provisions for washing (hot and cold water, soap, towels OR ample supply of hand sanitizer liquid) must be included with the facility. The door to the facility must contain a lock and key and shall be provided to the Owner's Representative.

All associated costs to provide and maintain the sanitary provisions as outlined above shall be considered incidental to the cost of weighing materials in trucks.

501.05 TESTING AND CERTIFICATION

The Contractor shall engage an independent company to test and certify the weigh scales in accordance with the current acts and regulations of Measurement Canada.

All scales shall be tested by the proper authority at the Contractor's expense after each set-up and prior to use on every contract. After certification, the Contractor must provide, to the Owner's Representative, a certificate of compliance from the scale testing company before the scales may be used.

When considered necessary by the Owner's Representative, the Contractor shall have the scales re-tested and re-certified.

The re-testing shall be at the Contractor's own expense.

501.06 ELECTRONIC WEIGH TICKETS

All scale houses must be equipped with all the necessary equipment to produce and print electronic copies of all weigh scale tickets for all materials that would normally be weighed. These materials shall include, but are not limited to: Surface Course Asphalt, Base Course Asphalt, Leveling Course Asphalt, Granular A, Granular B, Rock Fill, Other Material Fill, Maintenance Grade III and all other material types noted in the contract document where payment is in tonnes. The electronic ticket system shall include the following:

Hardware:

- Micro controller c/w internal USB flash drive and operating software.
- Ticket printer with RS - 232 interfaces, capable of printing 4 layered copies
- All components require 120 Volts AC.
- Provide electronic ticket system with backup power supply, 20 minutes minimum

Software:

- Must be able to store up to 750 transactions
- Must be able to store and recall up to 50 trucks
- Must be able to store and recall up to 20 products
- Must be able to store and recall project numbers
- Must be able to store and recall truck tare weights
- Must be able to export data to a USB flash drive, to be used with Microsoft Excel
- Must have the option to delete data after exporting
- Must have password protection for exporting data
- Must be able to recall the amount of material weighed at any particular time

Must provide ticket with the following information:

- Government name and address
- Date and time
- Ticket number
- Project number
- Product ID
- Truck ID
- Gross, Tare, and Net Weight

- Time loaded
- Station line
- Rear axle line
- Signature line
- Checker line
- Time unloaded line

The Contractor is advised that the electronic ticket system must include all the requirements above and is subject to prior approval by the Owner's Representatives. The Contractor shall ensure that the system is installed and working properly before weighing any materials. Weighing of any material will not commence until the electronic ticketing system is working and is verified by the Owner's Representative. All data and tickets shall be provided to the Owner's Representative or designate at the end of each working day.

501.07 DETERMINING TRUCK TARES

All trucks must have a tare weight verified at the beginning of the project and at any time a dump is changed. Additional "tare checks" will be at the Owner's Representatives request and can be made at any time of day and the number of tare checks is unlimited. If the tare check is different than that of the original tare, the tare check weight will be used for the tare of that truck until a subsequent change in the tare weight. Tare weights and tare checks must be provided to the Owner's Representative at the end of each working day. Should the Department at any time find abnormal discrepancies in any tare weight, the Contractor will be given written notification. Any further discrepancies will result in suspension of scale house operations pending an investigation. The Owner's Representative or designate will complete a "tare check verification" each time a tare is verified in their presence.

501.08 LICENSED WEIGHTS

The Contractor will be responsible for compliance with Service NL regulations with respect to maximum allowable weights for all Contractor and sub-contractor owned trucks hauling material for the project. Should the Contractor send an overweight truck to the project site, the Department of Transportation and Infrastructure shall only pay the maximum allowable weight for that truck. For example, the Contractor sends a truck with a gross weight of 34500 kilograms and the maximum allowable weight for that truck is 34000 kilograms the Department will pay 34000 kilograms and the additional 500 kilograms will be forfeited to the Department.

501.09 WEIGHT VERIFICATION

The Department reserves the right to re-weigh loaded trucks for verification of weights entered on the weigh ticket. Trucks may be taken from any location within the project limits and at any point between the scale house and the project site and returned to the scales for weight verification in the presence of the Owner's Representative. The Department reserves the right to re-weigh trucks at any time and the number of checks will be unlimited for the duration of the project. Should there be a discrepancy in the ticket weight and the verification weight, the Contractor will be given a written notification. Any further discrepancies will result in suspension of scale house operations pending an investigation. The Owner's Representative will complete a "weigh check verification" each time a truck is re-weighed and a copy will be provided to the Contractor.

501.10 SCALE HOUSE ACCESS

The Owner's Representative shall have free access to the scale house for inspection and compliance purposes for the duration of the project. This shall include, but not limited to: inspection of scales, witnessing tare checks and weighing of materials, acquiring completed weigh tickets and transfer of electronic data.

501.11 USE OF WEIGH SCALES BY ENFORCEMENT OFFICERS

Weigh scales, during weigh scale operating hours, shall be at the disposal of Police Officers and Highway Enforcement Officers of Service NL for the purposes of checking the various weights of vehicles hauling materials for use on this contract or on any departmental or private work the Contractor may undertake.

501.12 WEIGHING COSTS

The Contractor shall supply a scale operator to take measurements for weights. Weighing of all construction materials shall be the sole responsibility of the Contractor. However, at the discretion of the Owner's representative the Department may also operate the scales and take measurements for weights.

The Contractor is advised that all costs associated with the supply of labour, materials, installation, operation, maintenance and removal of the weigh scales, complete with scales, scale house, electronic ticket system, furniture and washroom facilities together with all costs of testing and certification in accordance with this specification shall be borne by the Contractor as part of the work to be carried out at the contract price for items which are measured by weighing.

The supply of blank tickets shall be considered incidental to the project.

No additional payment shall be made and the Department will not be liable for any associated delays related to issues with the electronic weigh ticket system or testing and certification of the scales. In addition, any delays associated with any of the requirements above, notably tare checks and verification of truck weights shall not be considered.