

PART 1 GENERAL

1.1 RELATED SECTION

- .1 Section 32 12 16 – Asphalt paving;
- .2 Section 32 17 23 – Pavement marking.

1.2 MEASUREMENT PROCEDURES

- .1 No measurement will be made for this works. Contractor shall spread cost over the other cost items. The traffic control includes everything that is required in order to maintain traffic flow during the working period and in accordance with the ministry representative requirements. These works include signs, any flagman required at any given time and pavement markings during works and after the works. These works include equipment, machinery, material and labor needed to maintain and reestablish traffic flow during and after the works.

1.3 REFERENCES

- .1 Ministère des Transports du Québec standards.

1.4 PROTECTION OF PUBLIC TRAFFIC

- .1 Comply with requirements of Acts, Regulations and By-Laws in force for regulation of traffic or use of roadways upon or over which it is necessary to carry out Work or haul materials or equipment.
- .2 When working on travelled way:
 - .1 Place equipment in position to present minimum of interference and hazard to travelling public.
 - .2 Keep equipment units as close together as working conditions permit and preferably on same side of travelled way.
 - .3 Do not leave equipment on travelled way overnight.
- .3 Do not close any lanes of road without approval of ministry Representative and Canadian Space agency approval. Before re-routing traffic, erect suitable signs and devices in accordance with signalisation drawings approved by the ministry Representative.
- .4 Keep travelled way graded, free of pot holes and of sufficient width for required number of lanes of traffic.
 - .1 Provide minimum 7 m wide temporary roadway for traffic in two-way sections through Work and on detours.
 - .2 Provide minimum 3,5 m wide temporary roadway for traffic in one-way sections through Work and on detours.
- .5 As directed by ministry Representative, provide temporary roads to facilitate passage of traffic around restricted construction area:
 - .1 Do grading for detour roads.
 - .2 Place and compact granular sub-where temporary detour roads are needed.
 - .3 Place and compact granular base in accordance with ministry Representative.

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- .4 Place and compact asphalt concrete pavement in accordance with Section 32 12 16 - Asphalt Paving.
- .5 Place and compact mixed-in-place asphalt paving in accordance with Section 32 12 16 - Asphalt Paving, part 3- Execution.
- .6 When permitted, place temporarily steel plates that can receive heavy traffic loads without apparent defection.
- .6 Provide and maintain road access and egress to property fronting along Work under Contract and in other areas as indicated, unless other means of road access exist that meet approval of ministry Representative.

1.5 INFORMATIONAL AND WARNING DEVICES

- .1 Provide and maintain signs, and other devices required to indicate construction activities or other temporary and unusual conditions resulting from Project Work which requires road user response.
- .2 Supply and erect signs, delineators, barricades and miscellaneous warning devices as specified in ministère des Transports du Québec standards.
- .3 Place signs and other devices in locations recommended in ministère des Transports du Québec standards.
- .4 Meet with ministry Representative prior to commencement of Work to prepare list of signs and other devices required for project. If situation on site changes, revise list to approval of ministry Representative.
- .5 Continually maintain traffic control devices in use by:
 - .1 Checking signs daily for legibility, damage, suitability and location. Clean, repair or replace to ensure clarity and reflectance.
 - .2 Removing or covering signs which do not apply to conditions existing from day to day;
 - .3 When required, remove and replace existing road signs in accordance with instructions of the owner and the MTQ standards.

1.6 CONTROL OF PUBLIC TRAFFIC

- .1 Provide competent flag persons, trained in accordance with, and properly equipped as specified in in ministère des Transports du Québec standards in following situations:
 - .1 When public traffic is required to pass working vehicles or equipment that block all or part of travelled roadway.
 - .2 When it is necessary to institute one-way traffic system through construction area or other blockage where traffic volumes are heavy, approach speeds are high and traffic signal system is not in use.
 - .3 When workmen or equipment are employed on travelled way over brow of hills, around sharp curves or at other locations where oncoming traffic would not otherwise have adequate warning.
 - .4 Where temporary protection is required while other traffic control devices are being erected or taken down.
 - .5 For emergency protection when other traffic control devices are not readily available.
 - .6 In situations where complete protection for workers, working equipment and public traffic is not provided by other traffic control devices.
 - .7 Delays to public traffic due to contractor's operators: maximum 15 minutes.

1.7 TRAFFIC RESTRICTIONS

- .1 Maintain existing traffic conditions during all works unless authorised otherwise by the Ministry representative. However, when construction works is done in accordance with the present contract justify it, and provided that, in accordance with present tender, approved means by the Ministry representative are taken to protect and control public traffic , these conditions may be modified.

Part 2 Products

2.1 Signalisation drawings

- .1 Supply drawings for each sequence of work. The drawings shall be sealed and signed by an engineer member of the provincial order of engineer. Furthermore, the drawings shall be prepared by a recognised firm that is specialised in that field. The drawings shall be submitted 48 hours prior to commencing the works and be approved by the ministry representative before starting the new sequence of signalisation. The drawings have to clearly show at the minimum every panel to be placed, the traffic direction and all the areas affected by the works. No claim will be made based on drawings submitted late, noncomplying or incomprehensible.

Part 3 Execution

3.1 Preparation

- .1 Obtain ministry Representative of signalisation measures prior to implementing any work.

3.2 Work steps

- .1 Road Works on bypass road shall be realised by maintaining one lane open at all time. Provide the adequate signalisation and flagmen when needed or if required by the Ministry representative.
- .2 Access to building's rear entrance (near 3+550 and 3+620 marks) shall be maintained without interruption between 7H00 and 17H00. Night and week end works shall be expected at these particular areas.

3.3 Repair works

- .1 Ounce completed, remove temporary signalisation with one week of completed paving works and repair any marks left by the signalisation.

END OF SECTION