
Part 1 General

1.1 RELATED REQUIREMENTS

- .1 The list of work sections in this division is indicative and non-exhaustive. It does not exclude the works described in the other specification sections, shown in the drawings or necessary for the execution of the works in keeping with overall intent of the plans.
- .2 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .3 Section 01 33 00 - Submittal Procedures.
- .4 Section 32 11 16.01 - Granular Base.
- .5 Section 32 12 16.01 – Asphalt Paving (Short form).

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM D4791-99, Standard Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate.
- .2 Ministère des Transports du Québec
 - .1 Cahier des charges et devis généraux (CCDG) - latest edition.

1.3 SAMPLES

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Allow continual sampling by Departmental Representative during production.
- .3 Provide Departmental Representative with access to source and processed material for sampling.
- .4 Install sampling facilities at discharge end of production conveyor, to allow Departmental Representative to obtain representative samples of items being produced. Stop conveyor belt when requested by Departmental Representative to permit full cross section sampling.
- .5 Pay cost of sampling and testing of aggregates which fail to meet specified requirements.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Divert unused aggregate materials from landfill to local site as approved by Departmental Representative.

Part 2 Products

2.1 MATERIALS

- .1 Aggregates for sub-base, base and shoulder in accordance with requirements of NQ-2560-114 Part II: Base, Surface Course and Shoulders.
 - .1 Type MG 20 granular base materials.
 - .2 Type MG 112 granular sub-base materials.
 - .3 Type 1 and type 2 fill materials.
- .2 Aggregates for pad and coating in accordance with requirements of NQ-2560 Part III: Pad, Coating, Anti-contamination Layer and Filtration Layer.
 - .1 Type CG-14 granular material for pad and coating.
- .3 Aggregates for hot asphalt mix to NQ-2560-114. Part V: Hot Mix Asphalt.
- .4 In addition to the geotechnical requirements, the backfill or borrow materials coming from outside the work limits and used inside the work limits must also respect the level A criteria of the "Politique de protection des sols et de réhabilitation des terrains contaminés" by the MDDELCC.

2.2 SOURCE QUALITY CONTROL

- .1 Inform Departmental Representative of proposed source of aggregates and provide access for sampling at least 4 weeks prior to commencing production.
- .2 If, in opinion of Departmental Representative, materials from proposed source do not meet, or cannot reasonably be processed to meet, specified requirements, locate an alternative source or demonstrate that material from source in question can be processed to meet specified requirements.
- .3 Advise Departmental Representative 4 weeks in advance of proposed change of material source.
- .4 Acceptance of material at source does not preclude future rejection if it fails to conform to requirements specified, lacks uniformity, or if its field performance is found to be unsatisfactory.

Part 3 Execution

3.1 PREPARATION

- .1 Handling :
 - .1 Handle and transport aggregates to avoid segregation, contamination and degradation.

.2 Stockpiling :

- .1 Stockpile aggregates on site in locations as indicated unless directed otherwise by Departmental Representative.
- .2 Stockpile aggregates in sufficient quantities to meet Project schedules.
- .3 Stockpiling sites to be level, well-drained and of adequate bearing capacity and stability to support stockpiled materials and handling equipment.
- .4 Except where stockpiled on acceptably stabilized areas, provide compacted sand base not less than 300 mm in depth to prevent contamination of aggregate. Stockpile aggregates on ground but do not incorporate bottom 300 mm of pile into Work.
- .5 Separate different aggregates by strong, full depth bulkheads, or stockpile far enough apart to prevent intermixing.
- .6 Do not use intermixed or contaminated materials. Remove and dispose of rejected materials as directed by Departmental Representative within 48 h of rejection.
- .7 Stockpile materials in uniform layers of thickness as follows :
 - .1 Max 1.5 m for coarse aggregate and granular sub-base materials.
 - .2 Max 1.5 m for fine aggregate and granular base materials.
 - .3 Max 1.5 m for other materials.
- .8 Uniformly spot-dump aggregates delivered to stockpile in trucks and build up stockpile as specified.
- .9 Do not cone piles or spill material over edges of piles.
- .10 Do not use conveying stackers.
- .11 If Work is performed under winter conditions, prevent ice and snow from becoming mixed into stockpile or in material being removed from stockpile.

3.2 CLEAN UP

- .1 Leave aggregate stockpile site in tidy, well-drained condition, free of standing surface water.
- .2 Leave any unused aggregates in neat compact stockpiles as directed by Departmental Representative.
- .3 For temporary or permanent abandonment of aggregate source, restore source to condition meeting requirements of authority having jurisdiction.

END OF SECTION