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PART 1 - GENERAL

1.1 REFERENCE STANDARDS

- .1 Ontario Provincial Standard Specifications (OPSS)
 - .1 OPSS.PROV 313, April 2021, Hot Mix Asphalt - End Result
 - .2 OPSS.PROV 1010, April 2013, Ontario Provincial Standard Specification, Material Specification for Aggregates - Base, Subbase, Select Subgrade, and Backfill Material.
 - .3 OPSS.PROV 1103, November 2016, Material Specification for Emulsified Asphalt.
 - .4 OPSS.MUNI 1150, November 2020, Material Specification for Hot Mixed Asphalt.

1.2 PROTECTION

- .1 Protect buildings, landscaping, roads, driveways, sidewalks, trees and shrubs on site and adjacent property that may be damaged by paving machinery, equipment or personnel. Make good property damaged due to paving operations.
- .2 Take necessary precautions to protect workmen and public from hazards of paving operations.
- .3 Keep vehicular traffic off newly paved areas until paving properly cured.
- .4 Provide access to all adjoining areas at all times. Arrange paving schedule so as not to interfere with normal use of premises.

1.3 MEASUREMENT PROCEDURES

- .1 Excavation will be measured in cubic metres of materials encountered of whatever nature position.
- .2 Granular sub-base will be measured in tonnes of aggregate incorporated into the work.
- .3 Granular base will be measured in tonnes of aggregate incorporated into the work.
- .4 Crushed rock screenings will be measured in tonnes of aggregate incorporated into the work.
- .5 Compaction is considered included in the supplying and placing of aggregates and will not be measured separately for payment.
- .6 Asphalt base course will be measured by the tonne used and accepted in the work.
- .7 Asphalt surface course will be measured by the tonne used and accepted in the work.

- .8 Cleaning pavement surfaces will be measured in square metres of surface cleaned.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Asphalt base course: to OPSS 1150, type HL 8. Maximum size aggregate 26.5 mm.
- .2 Asphalt surface course: to OPSS 1150, type HL 3. Maximum size aggregate 9.5 mm.
- .3 Granular base: to OPSS.PROV 1010, Granular A. Maximum size 19.0 mm.
- .4 Granular sub-base: to OPSS.PROV 1010, Granular B. Maximum size 26.5 mm.
- .5 Crushed rock screenings: to OPSS.PROV 1010, for Granular M. Maximum size 9.5 mm.

PART 3 - EXECUTION

3.1 CLEANING

- .1 Remove dust, contaminants, loose and foreign materials, oil and grease in designated areas.
- .2 Use rotary power brooms supplemented by hand brooming as required.
- .3 Where directed, remove to existing pavement level, sealing compound which has protruded excessively and dispose of removed material as directed.
- .4 Keep drainage system clear of loose and waste materials.

3.2 EXCAVATING

- .1 Excavate to elevations and dimensions indicated or required for construction of work.
- .2 Make excavation to clean lines to minimize quantity of fill material required.
- .3 Earth bottoms of excavations to be dry undisturbed soil, reasonably level, free from loose or organic matter.

3.3 INSPECTION

- .1 Check graded subgrade for conformity with elevations and cross-sections before placing granular base material.

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- .2 Proof-roll base surface with mass and type of roller approved by Departmental Representative.
 - .1 Check for unstable areas.
 - .2 Check for areas requiring additional compaction.
- .3 Notify Departmental Representative of unsatisfactory conditions.
- .4 Do not begin paving work until such conditions have been corrected and are ready to receive paving.
- .5 When complete, have Departmental Representative inspect excavations to verify soil bearing capacity, depths and dimensions.
- .6 Excavation, beyond limits shown on drawings, if authorized in writing by Departmental Representative, will be paid for as extra to Contract Amount in accordance with General Conditions. Quantities will be calculated in place, compaction included. Truck load measurements not acceptable.
- .7 Correct unauthorized excavation at no extra cost by filling with Granular A material.

3.4 GRANULAR SUB- AND GRANULAR BASE

- .1 Place 450 mm compacted thickness of granular sub-base.
- .2 Place 150 mm compacted thickness of granular base.
- .3 Place in layers not exceeding 150 mm compacted thickness. Compact each layer to 100% Standard Proctor Density.

3.5 ASPHALT COURSE

- .1 Place 70 mm of compacted asphaltic concrete base course.
- .2 Place 40 mm of compacted asphaltic concrete surface course.
- .3 Minimum 7°C air temperature when placing mixture.
- .4 Minimum 118°C mixture temperature when spread.
- .5 Maximum 149°C mixture temperature at any time.
- .6 Compact each course with roller when it can support roller mass without undue cracking or displacement.
- .7 Roller, power driven, minimum mass 9 tonnes, minimum wheel width 600 mm.
- .8 Roll until roller marks are eliminated. Compact to 96% laboratory density.
- .9 Keep roller speed slow enough to avoid mixture displacement.
- .10 Moisten roller wheels to prevent mixture adhesion.

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- .11 Compact mixture with hot tampers in areas inaccessible to roller.
- .12 Finish surface true to grade and free from deviations exceeding 1:1000 when measured in any direction with a 3 m straight edge.

3.6 JOINTS

- .1 Cut back bituminous course to full depth in straight or curved lines as required to expose fresh vertical surfaces. Remove any broken or loose material.
- .2 Paint exposed edge of asphaltic joints, edges of manholes and catch basin frames, curbs and similar items with asphalt primer prior to placing asphalt courses.
- .3 Where paving comprises two courses overlap longitudinal joints not less than 600 mm.
- .4 Carefully place and compact hot asphaltic material against joints.