

## ITEM SPECIAL PROVISIONS

### SP1 GENERAL

- .1 This document shall be read in conjunction with the Region of Waterloo and Area Municipal Design Guidelines and Supplemental Specifications for Municipal Services (DGSSMS), latest edition. The DGSSMS can be obtained from the Region of Waterloo website ([www.region.waterloo.on.ca](http://www.region.waterloo.on.ca)).
- .2 The DGSSMS shall be amended for the purpose of this Contract as follows:
  - The bedding compaction shall be 98% for all pipe work
- .3 The Contractor shall maintain and/or repair all siltation control measures (installed in this Contract), during site construction activities and prior to demobilization. If any control measures have not been repaired or maintained, then substantial completion will not be issued.
- .4 Prior to commencement of grading work, including topsoil stripping, all tree protection, silt fencing and temporary sedimentation measures shall be installed and inspected by the Contract Administrator.

### SP2 EXISTING SITE CONDITIONS

- .1 The current site use is a parking and loading area for the School, that said the side use is not changing. The size and configuration of the parking and loading area are changing. Along with this the basketball / asphalt play area is being levelled out and repaved along with re-paving the entire rear and east side of the school.

### SP3 INCIDENTAL ITEMS

- .1 The following is a partial list of items, the cost of which are to be included in the unit prices of the Tender Items. No additional payment will be made for the following:
  - a) Cost of permits and fees
  - b) Cost of providing and maintaining a field office and site privy or water closet and private phone line or mobile phone for the use of the Contract Administrator, unless a specific item for payment exists in the Schedule of Unit Prices
  - c) Cost of maintaining uninterrupted access to private properties that may be impacted by the construction
  - d) Cost of coordination of any work that may be associated with utility companies who may be effected by the project, or may be required to perform work simultaneously with the work of this Contract
  - e) Cost of normal roadway maintenance on existing roads and streets which may be effected by the Contractor's operations for the duration of the Contract
  - f) Cost of supporting and protecting existing utilities and services
  - g) Cost of preparing, maintaining, updating and providing a detailed project work schedule to the Contract Administrator
  - h) Cost of organization, maintenance and administration of a Project Safety Committee
  - i) Cost of preparing and submitting any shop drawings, as may be required under this Contract

- j) Cost of construction barricades and construction signage
- k) Cost of preparing and submitting the traffic control plan

**SP4 STANDARD SPECIFICATIONS AND STANDARD DRAWINGS**

- .1 The Contractor is advised that all items of work of this Contract shall be completed in accordance with the specified DGSSMS, or the applicable Ontario Provincial Standard Specifications and/or City of Kitchener Standard Details, unless a Special Provision is provided within this Contract Document outlining the specific nature of construction of a given item.
- .2 The Ontario Provincial Standard Specifications and DGSSMS are not included within this Contract Document unless clarification of such details is appropriate for this Contract.
- .3 The following specific Item Special Provisions are provided for clarification of those items where the standard specifications may not provide sufficient information for the Contractor to bid those items. Where Special Provisions are not provided for specific items under this Contract, the applicable Ontario Provincial Standard Specifications and/or the DGSSMS shall apply.

**SP5 REMOVALS**

- .1 The work of this item shall include, without limitation the removal of the existing asphalt, curb, fencing, retaining wall, guard rail, catch basin, storm sewer as shown on the Contract Drawings.
- .2 The Contractor shall dispose of, offsite, any material that is removed.
- .3 Payment for this item is included in the Contract Lump Sum.

**SP6 SILT FENCING / EROSION MEASURES**

- .1 The work of this item shall include, without limitation, the supply, installation and maintenance of Envirofence erosion control fence or equivalent, in the locations indicated on the drawings or identified by the Contract Administrator and in accordance with the manufacturer's specifications.
- .2 The work of this item shall include, without limitation, the supply, installation and maintenance of CB protection per detail and locations noted on the Contract Drawings
- .3 For the purposes of this item, "maintenance" shall be deemed to include periodic removal of silt accumulations, as required, and the re-erection of the silt fence to a vertical condition, again as required from time to time.
- .4 Payment for this item is included in the Contract Lump Sum.
- .5 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP7 PLACE 150 mm THICK TOPSOIL, WITH SOD**

- .1 OPSS 802 and 804 shall apply to this item, except as amended herein. Under this item, the Contractor shall place the seed and topsoil in accordance with the Contract Drawings and as specified herein:
- .2 Load, transport and place topsoil from approved source in disturbed grass area's, as noted on the Contract Drawings.

- .3 Topsoil shall be placed in a uniform layer of 150 mm and compacted to 85% SPMDD. Fine trimming and grading (including gilling and rock picking) shall be performed to provide a smooth surface, firm against footprints with fine loose texture, before seed is placed.
- .4 Any areas damaged by the Contractor by his method of construction, or by use of equipment, shall be reinstated at no additional cost to the Owner.
- .5 The work of this item shall also include the supply and placement of seed and mulch as follows:
- .6 Mulch shall be OPSS 804 Hydraulic Mulch
- .7 Fertilizer shall conform to OPSS 804 Table 1
- .8 The sod area shall be the disturbed grass area's in the school yard and boulevard, etc.
- .9 Sod shall be from a local source, staked as needed in steep area's
- .10 The work of this item shall include the maintenance, including watering and cutting, of the area until the grass has grown sufficiently for the second cutting and shall include this second cutting.
- .11 Payment for this item is included in the Contract Lump Sum.
- .12 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

#### **SP8**

#### **STORM SEWERS**

- .1 The work of these items shall include, without limitation, the supply and installation of new PVC pipe storm sewers, in the sizes, classes and locations as shown on the drawings.
- .2 The work shall conform to OPSS 410, 401 and 402. Bedding shall consist of Granular 'A' conforming to OPSS 1010 and compacted to 98% SPMDD extending from at least 150 mm below the bottom of the pipe to the springline.
- .3 From springline to at least 300 mm above the pipe, cover material shall be Granular 'B' Type I conforming to OPSS 1010 and compacted to 98% SPMDD. Backfill shall consist of approved native material, and shall be compacted to at least 95% SPMDD up to the bottom of the frost taper.
- .4 The work of these items shall also include any form of trench support required; such trench support, if used, shall be approved by the Ministry of Labour under the Occupational Health and Safety Act and Regulations prior to its use.
- .5 Connection to the existing maintenance holes shall be affected by use of non-shrink grout.
- .6 Core 'n Tees are not acceptable for storm service connections to storm sewers. Connections are to be made via a manufactured tee.
- .7 Connections to structures shall be done by means of "Core 'n Seal" adaptor or approved equivalent.
- .8 Payment for this item is included in the Contract Lump Sum.

- .9 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP9 STORM CATCHBASINS**

- .1 The work of these items shall include, without limitation, excavation for, supply and installation, and backfill of catchbasins and where illustrated on the drawings.
- .2 The work shall conform to OPSS 407 and 402. The catchbasins shall conform to OPSD 705.010 and OPSD 705.020 except that the bedding is to consist of at least 150 mm of Granular 'A' conforming to OPSS 1010 and compacted to 100% SPMDD and a minimum 300 mm thickness of Granular 'B' conforming to OPSS 1010 and compacted to 98% SPMDD, shall be placed around each catchbasin.
- .3 For grates set at a base asphalt grade, the curb for a distance of 1.3 m on each side of the centreline of the catchbasin shall be replaced with temporary asphalt curb.
- .4 Payment for this item is included in the Contract Lump Sum.
- .5 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP10 GRANULAR "B"**

- .1 The work of these items shall include, without limitation, the supply, placement and compaction to 100% SPMDD of Granular 'B'. In general, such Granular 'B' shall be placed to a compacted thickness as noted on the Contract Drawings
- .2 Placement and compaction of materials for these items shall be in accordance with OPSS 102, 314, and 501, respectively.
- .3 Payment will be limited to 300 mm behind back of curb.
- .4 Payment for this item is included in the Contract Lump Sum. For additional depth placement as directed by a Geotechnical Engineer payment will be addressed through change order.
- .5 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP11 GRANULAR "A"**

- .1 The work of these items shall include, without limitation, the supply, placement and compaction to 100% SPMDD of Granular 'A' on all prepared Granular 'B' roadbase. In general, such Granular 'A' shall be placed to a compacted thickness as shown on the Contract Drawings, and noted within the Form of Tender.
- .2 Placement and compaction of materials for these items shall be in accordance with OPSS 102, 314, and 501, respectively.
- .3 Payment for this item is included in the Contract Lump Sum. For additional depth placement as directed by a Geotechnical Engineer payment will be addressed through change order.

- .4 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP12 CONCRETE CURB AND GUTTER**

- .1 The work of these items shall include, without limitation, the excavation for, fine grading and installation of granular base, and forming, pouring and curing of concrete barrier of the types and in the locations shown on the Contract Drawings.
- .2 Work shall conform to OPSS 353 and curb shall conform to OPSD 600.110. The concrete strength shall be 32 MPa at 28 days.
- .3 Subsequent to curb installation, the curb shall be completely backfilled.
- .4 Payment for this item is included in the Contract Lump Sum.
- .5 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP13 HL3 AND HL4 ASPHALT**

- .1 The work of these items shall include, without limitation, fine grading of the Granular 'A' road base and the supply, placement and compaction of HL4 asphalt.
- .2 Work shall be done in accordance with OPSS 310, 1003, 1101 and 1150. Weighing of material shall be in accordance with OPSS 102.
- .3 OPSS 310 is amended as follows:
- Sections 310.07.01 Quality Control and 310.07.05 Sampling are deleted in their entirety
  - All acceptance inspection and testing shall be carried out by the Owners' representatives as per Section 310.08.01, Quality Assurance (Q.A.)
  - The Contract Administrator may increase the testing frequencies outlined in Table to reflect smaller quantity contracts
  - The minimum Marshall Stability requirements are 97% of the Marshall mix design bulk density
  - Compaction testing will be determined by Nuclear Density Gauge as per 310.08.05.03
- .4 Amendments to OPSS 1003 and OPSS 1150 must also be made after discussions with pavement designer.
- .5 If any of the existing asphalt edges to which new asphalt is to mate have been damaged, such asphalt edges shall be sawcut and the damaged portions of asphalt shall be removed under these items.
- .6 Where new asphalt is to butt to existing asphalt, an approved asphalt emulsion shall be applied to the existing asphalt prior to placing new asphalt.
- .7 Notwithstanding that other items of this Contract may specify the adjustment of certain structures to base course or final asphalt grades, as the case may be, any structures not so specified (for example, existing water valves, manhole frames and grates, etc.) shall be adjusted under these items to base course or final asphalt grade, as the case may be, as part of the work of these items. There will be no separate payment for this work.

- .8 Adjustment to hot mix asphalt pricing based on the liquid asphalt cement price index.
- .9 Payment for this item is included in the Contract Lump Sum. For additional depth placement as directed by a Geotechnical Engineer payment will be addressed through change order.
- .10 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP14 SIDEWALKS**

- .1 The work of these items shall include, without limitation, all material, labour and equipment required to construct concrete sidewalk as per the applicable municipal standards in locations as directed by the Engineer, and/or noted on the Contract Drawings.
- .2 Concrete sidewalk shall conform to the appropriate municipal specifications and/or OPSD.
- .3 All excess material shall be disposed of offsite and considered part of the work of these items. The Contractor shall backfill the sidewalk with Granular 'A' (compacted at 100% SPMDD). Any additional Granular 'A' required to ramp driveways shall be considered part of the work of these items. If settlement occurs greater than 25 mm from finished grade of the sidewalk, the Contractor shall repair the settlements as directed by the Engineer. No additional payment will be made for these repairs. Repairs will be completed within 48 hours of the Engineer's notification of settlements to the Contractor.

The work of these items shall also include, without limitation, all material, labour, and equipment necessary to obtain required compaction of the granulars. The concrete shall be as follows:

- 32 MPa compressive strength at 28 days
  - Air content of 5-8%
  - Maximum of 80 mm slump
- .4 Payment for this item is included in the Contract Lump Sum.
  - .5 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP15 PRECAST RETAINING WALL C/W FENCING AS REQUIRED**

- .1 The work of this item shall include, without limitation, the excavation for and supply and installation of precast concrete modular retaining wall, Granular 'A' leveling course/base, geotextile filter fabric and Granular 'B' backfill compacted to 95% SPMDD at the locations indicated on the Contract Drawings.
- .2 Retaining wall components shall be as supplied by "Permacon" (Grande) or approved equivalent to match the existing retaining wall style and colour.
- .3 The work of this item shall include the supply of shop drawings based on the proposed wall and railing materials, and securing of the approvals/permits and Final Certification to construct. Including details for connecting the existing wall to the proposed where shown on the Contract Drawings.
- .4 A Final Review Report from a Professional Engineer will be required certifying the retaining wall structure, railing and fence to the satisfaction of the City of Kitchener Building Department.

- .5 Payment for this item is included in the Contract Lump Sum.
- .6 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP16 WASTE BINS (SUTERA SS-6)**

- .1 The work of this item shall include, without limitation, the excavation for and supply and installation of underground waste bins (SUTERA SS-6) or approved equivalent, Granular / Crushed Stone base and fill, as well as any further installation due to wet soil conditions per the manufacturer's details and specifications.
- .2 Payment for this item is included in the Contract Lump Sum.
- .3 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP17 CONCRETE ACCESIBILITY RAMP c/w RAILINGS AND FENCING**

- .1 The work of these items shall include, without limitation, all material, labour and equipment required to construct concrete ramp, curbing, railings, tactile plates etc. as per the applicable AODA / municipal standards / OPSD in locations as directed by the Engineer, and/or noted on the Contract Drawings.
- .2 Concrete sidewalk and walls shall conform to the AODA and appropriate municipal specifications and/or OPSD.
- .3 Hand Rails, tactile plating per AODA / City of Kitchener Standards and any Municipal standards,
- .4 All excess material shall be disposed of offsite and considered part of the work of these items. The Contractor shall backfill the sidewalk with Granular 'A' (compacted at 100% SPMD). Any additional Granular 'A' required to ramp driveways shall be considered part of the work of these items. If settlement occurs greater than 25 mm from finished grade of the sidewalk, the Contractor shall repair the settlements as directed by the Engineer. No additional payment will be made for these repairs. Repairs will be completed within 48 hours of the Engineer's notification of settlements to the Contractor.

The work of these items shall also include, without limitation, all material, labour, and equipment necessary to obtain required compaction of the granulars. The concrete shall be as follows:

- 32 MPa compressive strength at 28 days
- Air content of 5-8%
- Maximum of 80 mm slump
- .5 The work of this item shall include the supply of design and shop drawings / details based on the proposed ramp dimensions, railing materials, and securing of the approvals/permits and Final Certification to construct.
- .6 Payment for this item is included in the Contract Lump Sum.
- .7 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.

**SP18****RIP RAP**

- .1 The work of these items shall include, without limitation, the excavation for, supply / installation of 150mm dia. +/- complete with filter fabric underlay, in the locations shown on the Contract Drawings.
- .2 Work shall conform to OPSS 511,
- .3 Payment for this item is included in the Contract Lump Sum.
- .4 The tendered price shall be inclusive of, but not limited to, all labour, material and equipment required to complete the work.