

1. SCOPE OF WORK

All bids shall include for all labour, material, equipment, fuel and services necessary to complete the resurfacing, water service, and restoration works in the DDSB Eastdale Collegiate and Vocational Institute Fire Protection Upgrades design as shown on the Contract Drawings.

NOTE:

The Contractor shall coordinate with the Durham District School Board (DDSB), City of Oshawa, and Region of Durham to obtain any permitting that may be required.

The Contractor shall clean all catch basins and drains from debris caused by construction activities at no additional cost.

Access to the site shall be via Adelaide Avenue East.

Traffic Control:

During all construction, the Contractor is required to comply with the Ontario Occupational Health and Safety Act (OHSA) and all amendments thereto and further shall make reference to and explicitly follow the requirements of the latest version of the Ontario Traffic Manual – Temporary Conditions – Book 7.

During the performance of the work, it shall be the Contractor's responsibility to protect the safety and convenience of the travelling public.

Pedestrian access shall not be inconvenienced. The Contractor shall define a clear, safe and dry walkway past the construction area at all times. The Contractor shall be attentive to the needs of pedestrians that are visually or physically impaired and the Contractor must be prepared at all times to assist in the safe and comfortable passage of those pedestrians.

Special attention must be given to ensure the safety of pedestrians is not jeopardized in any way during construction operations. The Contractor shall make arrangements as required by the City and by DDSB for the safe, full-time access and passage of all pedestrians during all construction work. It should be noted that this work is to occur while school is in summer recess with no summer programs being in place during this period. That being said there will still be the need to maintain access for staff and other visitors to the school during summer recess.

2. PART 'A': REMOVAL WORKS

2.1 Removal of Full Depth Asphalt – Item No. A1

1. References:

1.1 OPSS.MUNI 510

1.2 The Contractor shall comply with R.R.O. 1990, Regulation 347 General — Waste Management (Reg. 347, the “Waste Regulation”), as amended, made under the EPA. If there are discrepancies between OPSS.MUNI 180 and either O. Reg. 406/19 or Reg. 347, the requirements of O. Reg. 406/19 and Reg. 347 take precedence.

2. Execution

2.1 Under this Item, the Contractor shall supply all labour, equipment, and material to:

- Sawcut and remove all asphalt material to full depth, at limits of removal as indicated by the Contract Administrator.
- Dispose all removed materials off-site by the Contractor.

2.2 Saw-cutting shall be completed in a straight, neat manner to the satisfaction of the Contract Administrator. Saw-cuts shall leave a clean, vertical joint in the existing pavement on transverse and/or longitudinal joints, where new pavement commences at or intersects an existing paved surface or along existing curb and gutter.

Saw-cuts shall be made with a wet saw. Blades of the wet type shall be used together with sufficient water to prevent the incidence of dust, wherever dust would affect traffic or be a nuisance to the public. No additional payment will be made for water in this instance.

Saw-cut edges damaged by the Contractor shall be re-cut, prior to the placement of new asphalt, at no additional cost and to the satisfaction of the Contract Administrator.

2.3 The price shall include for removal of asphalt by jack hammer if required to ensure that there is no damage to existing infrastructure. The Contractor shall use caution wherever removing asphalt walkway away from existing infrastructure to be left in place (i.e., walls, stairs, stoops, etc.). Any damage caused to existing infrastructure will be repaired at the Contractor's expense.

2.4 The price bid shall include for removal and disposal of a maximum of two (2) metres of sod surrounding asphalt surfaces. Reinstatement of removed sod within 2 metres of the asphalt shall be paid for under Item No. A2. Disturbance or damage of sod beyond 2 metres is not

considered for payment and shall be restored to the original condition or better at the Contractor's own expense.

- 2.5 It is the contractor responsibility to ensure asphalt is removed to its full depth in all locations shown for removal on the contract drawings.

3. Basis of Payment:

- 3.1 Payment shall be made under this Item for the price bid for the excavation and removal of existing asphalt to required grade.
- 3.2 No additional compensation will be made for asphalt encountered in excess of depths indicated.
- 3.3 Payment at the Contract price for the above tender item shall be full compensation for all labour, equipment, and materials to do the work.

2.2 Earth Excavation and Grading incl. Topsoil Stripping – Item No. A2

1. References:

- 1.1 OPSS.MUNI 180, 206, 501 and 510; OPSD 208.010, RMDCS 02318
- 1.2 The Contractor shall comply with Ontario Regulation 406/19 On-Site and Excess Soil Management (O. Reg. 406/19, the "Excess Soil Regulation"), as amended, made under the Environmental Protection Act, R.S.O. 1990, c. E.19 (the "EPA") and all other documents applicable to the Excess Soil Regulation including, but not limited to, the Rules for Soil Management and Excess Soil Quality Standards (the "Soil Rules").
- 1.3 The Contractor shall also comply with R.R.O. 1990, Regulation 347 General — Waste Management (Reg. 347, the "Waste Regulation"), as amended, made under the EPA. If there are discrepancies between OPSS.MUNI 180 and either O. Reg. 406/19 or Reg. 347, the requirements of O. Reg. 406/19 and Reg. 347 take precedence.

2. Execution

- 2.1 Under this Item, the Contractor shall supply all labour, equipment, and material to:

1. Excavate, as required to construct the base as shown on the Contract Drawings.
- 50mm HL3 – Surface Course,
 - 50mm HL8 – Binder Course,
 - 150mm Granular A Base, and

- 300mm Granular B (Type II) Subbase
2. Excavate as required to construct the asphalt sidewalk.
 3. Fill and grade utilizing approved salvaged earth cut material from other on-site excavations, as required to construct proposed asphalt areas to subgrade, as shown on the Contract Drawings. Fine grading shall be completed around existing features, asphalt/parking areas and sodded areas to remain.
 4. The contract quantities for the earth excavation are to be determined by Contractor.
 5. Excavated earth shall be managed to eliminate disposal of reusable material offsite and reduce material imported. The Contractor shall be responsible for timing operations such that suitable excavated material can be reused onsite as earth fill. The Contractor is responsible for temporary material storage onsite and additional handling if excavated material cannot be immediately placed as earth fill, no additional payment will be made.
 6. Extent of excavation shall be as shown on the Contract Drawings. Where, however, the Contractor has excavated beyond these limits, no consideration for payment will be made for additional excavation or fill materials (imported or otherwise) required at locations of over-excavation.
 7. The Contractor is responsible for temporary material storage onsite and additional handling if excavated material cannot be immediately placed as fill, no additional payment will be made.
 8. Prior to placement of granular materials upon subgrades, the Contractor shall, in compliance with the Geotechnical Engineer, perform a proof-roll to determine the competency of the subgrade.
 9. Dispose of excess topsoil, organic and earth material at an off-site location, arranged for by the Contractor.
 10. The Contractor shall note the stripping depths are anticipated to vary throughout the project limits and shall be removed, regardless of depths.
 11. All excess materials shall be managed, handled, and disposed of at suitable locations, in accordance with applicable Municipal, Provincial, Federal, and locally governing Conservation Authority jurisdictions, policies and legislations.
 12. Frozen soil shall not be incorporated into the work.

2.3 Removal of Curb and Gutter – Item No. A3

1. Reference:
 - 1.1 OPSS.MUNI 510
2. General
 - 2.1 Under this item, the Contractor shall provide all labour, equipment and materials necessary to remove concrete curb.
3. Execution
 - 3.1 Under this Item, the Contractor shall supply all labour, equipment, and material to:
 - Saw-cut asphalt and curb and gutter to their full depths at the limits of removal as indicated on Contract Drawings or by the Contract Administrator.
 - Dispose of concrete and asphalt rubble resulting from curb and gutter removal at an off-site location, arranged for by the Contractor.
 - 3.2 Saw-cutting shall be completed in a straight, neat manner to the satisfaction of the Contract Administrator. Saw-cuts shall leave a clean, vertical joint in the existing pavement on transverse and/or longitudinal joints, where new pavement commences at or intersects an existing paved surface or along existing curb and gutter.

Saw-cuts shall be made with a wet saw. Blades of the wet type shall be used together with sufficient water to prevent the incidence of dust, wherever dust would affect traffic or be a nuisance to the public. No additional payment will be made for water in this instance.

Saw-cut edges damaged by the Contractor shall be re-cut, prior to the placement of new concrete curb and gutter, at no additional cost and to the satisfaction of the Contract Administrator.
 - 3.3 The Contractor will be responsible for protecting all saw-cut edges from damages until paving. Should the saw-cut edge be damaged, the Contract Administrator can request that the asphalt be re-cut prior to paving at no additional cost.
 - 3.4 It is the contractor responsibility to ensure concrete curb and gutter is removed to its full depth in all locations shown for removal on the Contract Drawings.

2.4 Miscellaneous Removals – Item No. A4, A5, A7

1. Reference
 - 1.1 OPSS.MUNI 510
2. General
 - 2.1 Under this item, the Contractor shall supply all labour, equipment and materials to remove and dispose of existing sign(s), and existing tree(s) as indicated on the Contract Drawings. These materials shall be disposed of off-site at a location arranged for by the Contractor.

2.5 Temporary 1.8m High Construction Fencing – Item No. A6

1. Reference:
 - 1.1 OPSS.MUNI 510
2. General
 - 2.1 The Contractor shall provide all labour, equipment, and materials necessary to supply and install temporary construction fencing at locations indicated on the Contract Drawings.
 - 2.2 The Contractor shall restore all disturbed areas to existing conditions, subject to the approval of the Contract Administrator, upon removal of the fencing. Where any items are broken or otherwise damaged during fence installation, as determined by the Contract Administrator, the Contractor shall be required to replace each damaged item to match existing or better condition at the Contractor's own expense.
 - 2.3 Temporary construction fencing shall be installed prior to any construction commencement and shall not be removed until the development in the area enclosed is completed.

PART 'B': EROSION AND SEDIMENTATION CONTROL

2.6 Catch Basin Siltation Trap – Item No. B1

1. Reference:
 - 1.1 OPSS.MUNI 805
2. General
 - 2.1 Under this item, the Contractor shall supply all labour, equipment and materials to supply, install, maintain, and remove catch basin siltation traps, as required.
 - 2.2 The Contractor shall install, maintain, and remove catch basin siltation traps at locations as indicated on the Contract Drawings.
 - 2.3 Supply and install 16-gauge, 10 mm wire mesh overlain with Terrafix 420R, Mirafi 170N or Armtec 230 geotextile filter fabric extending a minimum of 200 mm beyond all sides of the catch basin.
 - 2.4 Supply and install 200 mm thick of 20 mm Clear Limestone.
 - 2.5 Maintain each control measure during construction.
 - 2.6 Remove each control measure at completion of work.

2.7 Tree Protection Fencing – Item No. B2

1. Reference:
 - 1.1 OPSS.MUNI 801, OPSD 220.010
 - 1.2 City of Oshawa Standard P-604
2. General
 - 2.1 Under this item, the Contractor shall supply all labour, equipment and materials to supply, install, maintain, and remove tree protection fencing.
 - 2.2 Temporary fencing material shall be erected around the dripline of trees designed by the contract Administrator and as shown on the Contract Drawings.

PART 'C': ROADWORKS

2.8 Hot Mix Asphalt, H.L.-3 and H.L.-8 – Items No. C1 and C2

1. References:
 - 1.1 OPSS.MUNI 310, 311, 1151
 - 1.2 City of Oshawa Standard OS-306 and OS-530
2. General
 - 2.1 Payment shall be made under these Items for the supply, placement, and compaction of hot mix asphalt material.
3. Execution
 - 3.1 Hot Mix Asphalt shall be placed to the following depths:
 - 50mm H.L.-3 for the proposed asphalt recreation area as indicated on the Contract Drawings
 - 50mm H.L.-8 for the proposed asphalt recreation area as indicated on the Contract Drawings
 - 3.2 Asphalt shall be PGAC 58-28. The Contractor is responsible for providing mix designs.
 - 3.3 Asphalt shall be machine laid, wherever possible. No extra payments will be made for any hand work involved in spreading or compacting the hot mix asphalt at irregularities.
 - 3.4 Heavy compaction equipment shall not be used in the immediate vicinity of the existing structures and slabs. Hand operated vibratory equipment shall be used adjacent to and over the top of the existing structures and slabs. If heavy wheel loads are expected over the structures during the construction period, the Contractor shall provide temporary additional cover to prevent damage of any kind.
 - 3.5 The price bid shall include placement of asphalt at all site locations, including tack coat at all asphalt-asphalt, and asphalt-concrete interfaces.
 - 3.6 Hot Mix H.L.-3 shall be used for padding as directed by the Contract Administrator. Saw-cutting and step joints, and tapered lap joints as required, shall be included under this Item.
 - 3.7 The price bid for shall include for fine grading of granular material, saw-cutting, and hand work as required, to accommodate asphalt placement.

- 3.8 The price bid includes for asphalt sidewalk and walkway within the site.
- 3.9 The Contractor will be responsible for providing samples for Quality Assurance (QA) at random locations throughout the site as required by OPSS.MUNI 310 or as directed by the Contract Administrator.
- 3.10 Since current testing methods do not enable ongoing monitoring (and therefore corrective action) of the asphalt, the onus shall be on the asphalt suppliers and contractors to ensure, their product fully conforms to the specifications with no allowance for 'Borderline' test results permitted. Those results will be deemed 'Unacceptable'. Results falling within the rejectable range shall generally require asphalt removal.
- 3.11 A pre-pave site meeting will be conducted to review testing procedures with the Contractor, the paving Sub-Contractor, the Contract Administrator and the Geotechnical Sub-Contractor for the project.

2.9 Granular 'A' and Granular 'B' – Items No. C3 and C4

1. References:
 - 1.1 OPSS.MUNI 102, 206, 314, 501, 506
2. General
 - 2.1 Payment shall be made under these Items for the supply, placement, and compaction of granular material.
3. Execution
 - 3.1 Granular 'A' shall be placed to the following depths:
 - As required to shape pathway area for paving at full depth asphalt removal locations.
 - 150mm in full excavation areas as indicated on Contract Drawings.
 - Backfill as required to fill any voids during stair and ramp construction and as additional grading as shown on the contract drawings.
 - 3.2 Granular 'B' shall be placed to the following depths:
 - As required to shape pathway area for paving at full depth asphalt removal locations.
 - 300mm for the proposed asphalt recreation areas as indicated on Contract Drawings.

- 3.3 The Contractor shall supply all calcium chloride/water for dust control and compaction according to OPSS 506. Bar-coded weigh tickets shall be provided by the Contractor as per OPSS 102 and the Standard Revision to OPSS 102.
- 3.4 Prior to paving the contractor shall confirm to the Contract Administrator that the grading of the pathway and road restoration areas matches the grading provided on the contract drawings.

2.10 Concrete Curb and Gutter (All Types) – Item No. C5

- 1. Reference:
 - 1.1 OPSS.MUNI 353, OPSD 600.040
 - 1.2 City of Oshawa Standard OS-601
- 2. General
 - 2.1 Under this Item, the Contractor shall supply all labour, equipment and material to construct concrete curb and gutter in accordance with Contract Drawings and City of Oshawa standards within the right-of-way. Curb shall be constructed in accordance with OPSD 600.040 and shall match existing adjacent curb and gutter. Full depth expansion joints are to be used when abutting to existing concrete.
 - 2.2 Construction joints are to be placed at intervals not exceeding 4.0m and shall be cut with a wet saw. Blades of the wet type shall be used together with sufficient water to prevent the incidence of dust, wherever dust would affect traffic or be a nuisance to the public. No additional payment will be made for water in this instance.
 - 2.3 Curing compound is to be sprayed immediately after the finishing of concrete.
 - 2.4 The price shall include for curb depressions, curb transitions, and terminations, as required. Locations to be verified by the Contract Administrator prior to placement.
 - 2.5 The Contractor shall place adequate signs and physical barriers around all areas of freshly placed concrete to advise of its presence and prevent access to it. Barriers shall be placed as soon as the crew has moved on, or as soon as the crew has moved five (5) metres or more away from an unprotected area of a continuous pour. Barriers shall remain in place until at least 24 hours after the concrete has set hard enough to walk on. (This does not imply that areas can be opened to traffic after only 24 hours). The above conditions shall be construed as minimum requirements for safety around areas of freshly poured

concrete. Concrete surfaces marred by the public, or by traffic from the Contractor's own/Sub-Contractor forces, or due to animals, shall be replaced at the Contractor's expense.

- 2.6 Where excavation is required, all equipment and labour to complete excavation shall be paid for under this Item. Restoration, including compaction, with 150 mm depth of Granular 'A' and replacement of asphalt to match existing depth of all areas disturbed through excavation and removal processes shall be paid for under these Items.

2.11 Concrete Sidewalk Ramp – Item No. C6

1. Reference:

1.1 OPSS.MUNI 351, 1350, OPSD 310.010, 310.020

1.2 City of Oshawa Standard OS-304

2. General

- 2.1 Under this Item, the Contractor shall supply all labour, equipment and material to construct concrete sidewalk in accordance with OPSD 310.010 and OPSD 310.020.
- 2.2 Within the school property the sidewalk ramp shall have a minimum thickness of 130mm and shall match proposed adjacent asphalt sidewalk. The price bid shall also include the supply and install of welded-wire mesh reinforcement in all areas (150mm x 150mm weave, MW 18.7 x MW 18.7).
- 2.3 Where new sidewalk abuts existing sidewalk a full depth expansion joint shall be constructed. Approved expansion joint filler shall be placed through complete sidewalk.
- 2.4 Every joint shall be a contraction joint except where expansion joints are indicated. Construction joints shall be completed by saw-cutting every 1.5m and shall be cut with a wet saw. Blades of the wet type shall be used together with sufficient water to prevent the incidence of dust, wherever dust would affect traffic or be a nuisance to the public. No additional payment will be made for water in this instance.
- 2.5 Curing compound is to be sprayed immediately after the finishing of concrete.
- 2.6 The Contractor shall place adequate signs and physical barriers around all areas of freshly placed concrete to advise of its presence and prevent access to it. Barriers shall be placed as soon as the crew has moved on, or as soon as the crew has moved five (5) metres or more away from an unprotected area of a continuous pour. Barriers shall remain in place until

at least 24 hours after the concrete has set hard enough to walk on. (This does not imply that areas can be opened to traffic after only 24 hours). The above conditions shall be construed as minimum requirements for safety around areas of freshly poured concrete. Concrete surfaces marred by the public, or by traffic from the Contractor's own/Sub-Contractor forces, or due to animals, shall be replaced at the Contractor's expense.

- 2.7 The price bid shall include for all minor excavation and removal of excess material required where existing sidewalk is being replaced. Granular 'A' for sidewalk base shall be supplied under the Granular 'A' tender item.

2.12 Tactile Walking Surface Indicator – Item No. C7

1. References:

- 1.1 OPSS.MUNI 351, 310.039, AODA Specifications

2. General:

- 2.1 For the price bid, the Contractor shall supply and install each (1) tactile walking surface indicator in accordance with OPSD 310.039.

- 2.2 A minimum of two (2) 610mm x 610mm plates are to be used at the intersection of the asphalt pathway and emergency access route and shall be installed in all locations shown on the contract drawings. Alternate standard lengths will be considered by the Contract Administrator but must be approved by contract administrator prior to installation.

- 2.3 The Tactile plates shall be black, plastic, surface mounted TWSI, similar to "Armour Tile – ADA-S-2424 Tactile Walking Surface Indicator Tile Surface Applied Inline Dome Tactile Tile" by Kinesik Engineered Products in Onyx Black (BK) or approved equivalent.

- 2.4 All Tactile Plates shall be installed in accordance with the manufacturer's instructions.

3. Basis of Measurement:

- 3.1 For measurement purposes, a count shall be made for each tactile walking surface indicator plate installed.

2.13 Emergency Access Road Gates – Item No. C8

1. Reference:
 - 1.1 City of Oshawa Standard OS-313 and OS-315
2. General
 - 2.1 Under this item, the Contractor shall supply all labour, equipment, and material required to supply and install Emergency Access Road Gates as per Contract Drawings. Gates shall be placed at the extent of the proposed works dividing the parking area north of the school and the bus loop abutting Harmony.
 - 2.2 Gate posts shall be 48mm pipe as specified by City of Oshawa in OS-313 or approved equivalent.
 - 2.3 Gate post footings shall be poured concrete footing in 250mm dia. Sonotube compressive strength of concrete to be 20mpa at 28 days with 6% air entrainment. slope top surface to drain, with a minimum depth of 1.2 m below the finished grade.
 - 2.4 The price shall include all excavation required to install gate posts, as well as all cuts and subsequent restorations needed.

2.14 Fire Route Sign and Post– Item No. C9

1. Reference:
 - 1.1 OPSD 2526.01
2. General
 - 2.1 Under this item, the Contractor shall supply all labour, equipment, and material required to supply and install Fire Route Signage as per Contract Drawings. Posts shall be placed along the fire route in the adjacent boulevard.
 - 2.2 Signs shall be attached to existing light posts where possible as per OPSD 2526.01 along the fire route as per Contract Drawings.
 - 2.3 Signs shall be placed in accordance with City of Oshawa standard and guidelines.
 - 2.4 The price shall include all excavation required to install sign posts, as well as all cuts and subsequent restorations needed.

PART 'D': LANDSCAPING

2.15 Topsoil and Sod – Items No. D1

1. References:
 - 1.1 OPSS.MUNI 802, 803
2. General
 - 2.1 The Contractor shall supply all labour, equipment and material required to remove all topsoil and sod to allow for the completion of asphalt placement and regrading. Removed materials shall be disposed of at an off-site location arranged for by the Contractor.
 - 2.2 Under this Item, the Contractor shall supply, place and grade imported screened topsoil and nursery sod to a depth of 150 mm. All topsoil shall be placed in uniform layers and compacted to 85% SPMDD on all areas to be sodded. Fine grading and trimming shall be performed to provide a smooth, loose textured surface, and to ensure that topsoil is not compacted greater than that specified. Spread topsoil in dry weather over a dry, unfrozen sub-grade.
3. Execution
 - 3.1 Topsoil to be spread following placement of all hard surface areas. The subgrade shall be approved by the Contract Administrator prior to spreading of topsoil.
 - 3.2 Topsoil shall be placed to 150 mm depth, compacted to 85% SPMDD in 150 mm lifts on all areas to be sodded.
 - 3.3 Fine grading and trimming shall be performed to provide a smooth surface and to ensure that topsoil is not compacted greater than that specified.
 - 3.4 Fine grade the topsoil surface to eliminate rough and low areas and so as to ensure positive surface drainage, using equipment capable of maintaining straight, even lines. Fine grade surface of topsoil to a smooth, even, loose-textured surface, firm against footprints, suitable for sodding.
 - 3.5 Establish traffic patterns and schedule to prevent driving on topsoil after it is spread to avoid over-compaction. Over-compaction will result in further works being initiated by the Contract Administrator to re-aerate the soil, at the Contractor's expense.

- 3.6 The lump sum bid shall include for the application of fertilizer as per OPSS 803. Watering as required to ensure sufficient growth is also required.
- 3.7 Grass shall be cut to 65mm height. A minimum of two cuts is required prior to acceptance.
- 3.8 Payment shall be made and holdback released once all deficiencies have been corrected following final inspection at the end of the maintenance period.
- 3.9 Topsoil required to make good areas disturbed by the Contractor's operation outside the limits shown on the Drawings shall be done at Contractor's expense.

PART 'E': GENERAL ITEMS

2.16 Bonds, Insurance and Maintenance Securities – Item No. E1

1. General
 - 1.1 The price bid for this item shall include:
 - 50% Performance and Guaranteed Maintenance Bond for 24 months
 - 50% Labour and Materials Payment Bond
 - 1.2 Liability Insurance as per Section 2.6 – Information to Bidders

2.17 Mobilization and Demobilization – Item No. E2

1. Reference:
 - 1.1 RMDCS Section 01725
2. Execution
 - 2.1 The price bid for this item shall be compensation for the following:
 - Security protection of equipment and sorted materials during the course of the Contract.
 - Moving onto the site and setting up the Contractor's office, storage facilities, temporary access, etc.
 - Providing all necessary access to the project access routes-and the restoration of the surfaces to their original condition after the access routes are removed.

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- Protection of all school property within hallways along access route from the west exterior door to the west interior courtyard door. Installation, maintenance, and removal of complete wall and floor protection will be covered under this item. Damages to any school property along this access will be the contractor's responsibility to rectify to same or better condition at their own expense. Access within school property beyond the outlined access route and project area is strictly prohibited.
- Moving off the site and removal of the Contractor's office, storage facilities, plant, etc.

2.2 The Contractor shall also:

- Provide and apply water as required to control dust until project is completed.
- Apply for and receive noise by-law exemptions from local municipalities as required.

PART 'F': Schedule of Quantities

Following schedule of quantities is attached to assist the bidder. The bidder is responsible for verification of all quantities and scope of work required to complete the works as specified.

Item No.	Spec No.	Description	Unit	Qty
PART 'A': REMOVALS				
A1	510, SP	Removal of Full Depth Asphalt (including Sawcut Asphalt)	m ²	
A2	180, 206, 501, 510, SP	Earth Excavation and Grading (including Topsoil Stripping)	m ³	
A3	510	Removal of Curb and Gutter (including Sawcut)	m	
A4	510	Removal of Existing Sign	ea.	
A5	510	Removal of Existing Tree	ea.	
A6	510	Temporary 1.8m High Construction Fencing	m	
A7	510	Provisional: Miscellaneous Removals	L.S.	
PART 'B': EROSION AND SEDIMENTATION CONTROL				
B1	805	Catch Basin Siltation Trap	ea.	
B2	801, P-1100, SP	Tree Protection Fencing	m	
PART 'C': ROADWORKS				
C1	310, 311, 1151, OS-306, SP	Hot Mix Asphalt, H.L.-3 (50 mm), incl. Tack Coat and Padding as Required and Pavement Joint Treatment into Existing Asphalt as per OS-530	t	
C2	310, 311, 1151, SP	Hot Mix Asphalt, H.L.-8 (50mm)	t	
C3	102, 206, 314, 501, 506, SP	Granular 'A' - 150mm	t	
C4	102, 206, 314, 501, 506, SP	Granular 'B' - 300mm	t	
C5	353, SP	Concrete Curb and Gutter (All Types)	m.	
C6	OS-304, SP	Concrete Sidewalk Ramp	m ²	
C7	SP	Tactile Walking Surface Indicator as per OPSP 310.039	ea.	
C8	OS-313, OS-315, SP	Emergency Access Road Gates	ea.	
C9	SP	Fire Route Sign and Post	ea.	

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Item No.	Spec No.	Description	Unit	Qty
PART 'D': LANDSCAPING AND RESTORATION				
D1	802, 803, SP	Topsoil and Sod (Nursery Staked)	m ²	
PART 'E': GENERAL				
E1	SP	Bonding, Insurance and Maintenance Security	LS	
E2	SP	Mobilization and Demobilization	LS	