

1.01 GENERAL REQUIREMENTS

- .1 The Form of Tender includes one lump sum priced item and several unit priced items.
- .2 The total tendered price shall be the sum of the lump sum item plus the amounts calculated from the unit priced items based on the approximate quantities identified for each of the unit priced items.
- .3 The Contractor in submitting their Tender for the project understand that they will only be entitled to payment under the unit priced items when prior written authorization has been received from the Departmental Representative for utilization and then only to the extent of the work authorized by the Departmental Representative.
- .4 Additional instructions for measurement and/or payment for items of the work may be contained in specific sections of the Technical Specifications. In the case of a conflict between the instructions for measurement and payment contained in this section with that of any other section, the requirement of this section shall apply.
- .5 The submitted tender prices will be inclusive of all costs for the complete supply and installation of all materials, labour and equipment required to complete the work. No separate payment will be made for any testing, inspections and approvals required by Contractor.
- .6 All measurement shall be along a horizontal plane unless otherwise indicated.

1.02 LUMP SUM ITEMS

- .1 No separate measurement for payment shall be made for any work completed under Lump Sum Items per Lump Sum Table.
- .2 The work of the lump sum item shall include all other works which are required for completion of the project exclusive of those covered by the unit priced items.
- .3 All and any items not specifically included in the unit price items are considered incidental to the work and are to be included in the lump sum portion of the work.

1.03 UNIT PRICE ITEMS

- .1 Asphalt & Granular base – full depth removal & disposal
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: horizontal area.
 - .3 This item includes: The unit price will be full compensation for material, equipment, and work required for removal & off-site disposal of existing asphalt, as indicated on the drawings, or as directed by Departmental Representative in the field.
- .2 Concrete curb & granular base – remove and dispose
 - .1 Unit of measurement: linear meter (m).
 - .2 Method of Measurement: slope measure along face of curb

- .3 This item includes: The unit price will be full compensation for material, equipment, and work required for removal & off-site disposal of existing concrete curb including granular base, as indicated on the drawings, or as directed by Departmental Representative in the field.

- .3 Remove & stockpile paving stones
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: horizontal area.
 - .3 This item includes: The unit price will be full compensation for material, equipment, and work required for removal & stockpiling of existing paving stones for use on site as indicated on the drawings, or as directed by Departmental Representative in the field.

- .4 Remove & dispose granular base from paving stones – full depth
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: horizontal area.
 - .3 This item includes: The unit price will be full compensation for material, equipment, and work required for removal & off-site disposal of existing granular base material beneath paving stones as indicated on the drawings, or as directed by Departmental Representative in the field.

- .5 Clearing & Grubbing at entrances (parking lot / pavilion sites)
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: horizontal area.
 - .3 This item includes: clearing and disposal of all vegetation, including trees (standing and felled), shrub vegetation and underbrush, within the parking lot and pavilion sites, the intersection upgrades and ditching areas as indicated on the drawings, or as directed by Departmental Representative. Stripping of topsoil layer on road widening areas is incidental to the work.

- .6 Clearing & Grubbing at trails, including stripping and stockpiling of topsoil / bog material / forest duff
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: horizontal area.
 - .3 This item includes: clearing and off-site disposal of all vegetation, including trees (standing and felled), shrub vegetation and underbrush, bog material, forest duff, and stripping and stockpiling of topsoil within the limits of work of the trails, as indicated on the drawings, or as directed by Departmental Representative in the field.

- .7 Tree Protection fence
 - .1 Unit of measurement: linear meter (m).
 - .2 Method of Measurement: slope measure along top of fence
 - .3 This item includes: Supply and installation of tree protection fencing as indicated on the drawings, or as directed by Departmental Representative in the field. Also includes removal at conclusion of project.

- .8 Topsoil stripping and stockpiling on site (at entrances, not including area of clearing & grubbing, not including trails)
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: horizontal area.

- .3 This item includes: The unit price will be full compensation for material, equipment, and work required for stripping and stockpiling of existing topsoil for use on site (not including area of clearing & grubbing, not including trails) as indicated on the drawings, or as directed by Departmental Representative in the field.

- .9 Removal of excess fill off-site
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: horizontal area.
 - .3 This item includes: The unit price will be full compensation for material, equipment, and work required for removal & off-site disposal of excess clean fill material as indicated on the drawings, or as directed by Departmental Representative in the field.

- .10 Rough Grading
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: slope measure.
 - .3 This item includes: preparing the sub-grade for all pavement surfaces including concrete and asphalt to depth indicated to an even consistency and compaction as indicated on the drawings, or as directed by Departmental Representative in the field.

- .11 Fine Grading
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: slope measure.
 - .3 This item includes: preparing the sub-grade prior to placement of granulars for all pavement surfaces including concrete and asphalt to depth indicated to an even consistency and compaction as indicated on the drawings, or as directed by Departmental Representative in the field.

- .12 1050 Catch basin
 - .1 Unit of measure: each (ea).
 - .2 Method of measurement: number of units installed
 - .3 This item includes: excavation, granular base material and backfilling, supply and installation of catchbasins as indicated on the drawings, or as directed by Departmental Representative in the field. Also includes adjustment to finished grade. No payment will be made for surplus material or concrete used outside the dimensions indicated.

- .13 300mm Storm pipe, including bedding
 - .1 Unit of measure: linear meter (m).
 - .2 Method of measurement: along centreline of pipe
 - .3 This item includes: excavation and removal and disposal of excess material, bedding and backfilling, supply and installation of pipe complete with all fittings, environmental protection and includes clear stone, and reinstatement as specified and as indicated on the drawings, or as directed by Departmental Representative in the field.

- .14 Stormwater trench, per detail
 - .1 Unit of measure: linear meter (m).
 - .2 Method of measurement: along centreline of trench

- .3 This item includes: excavation and removal & disposal of excess material, environmental protection, supply and installation of geotextile, clear surge stone, and reinstatement with natural forest groundcover and leaf litter as indicated on the drawings, or as directed by Departmental Representative in the field.

- .15 Concrete barrier curb & granulars
 - .1 Unit of measure: linear meter (m).
 - .2 Method of measurement: slope measure along face of curb
 - .3 This item includes: mass excavation and embankment - common, supply and installation of 150 mm Type 1 granular base, grade stakes placed at the curb alignment showing top of curb elevation at 10 m intervals (Departmental Representative approval required prior to placing curb), CIP concrete curb, control joints, backfill to subgrade for adjacent surface as indicated on the drawings, or as directed by Departmental Representative in the field.

- .16 Type C Asphalt pavement – 50mm
 - .1 Unit of measure: square meter (m²).
 - .2 Method of measurement: slope measure of surface area.
 - .3 This item includes: supply, placement and compaction of asphaltic concrete as indicated on the drawings, or as directed by Departmental Representative in the field All key joints are to be included in this unit item.
 - .4 There shall be no payment for extra thickness or extra width of asphalt placed. Wherever in the opinion of the Departmental Representative there is extra thickness, the appropriate measurement will be deducted.

- .17 Type B Asphalt pavement – 50mm
 - .1 Unit of measure: square meter (m²).
 - .2 Method of measurement: slope measure of surface area.
 - .3 This item includes: proof rolling of subgrade, supply, placement and compaction of asphaltic concrete as indicated on the drawings, or as directed by Departmental Representative in the field All key joints are to be included in this unit item.
 - .4 There shall be no payment for extra thickness or extra width of asphalt placed. Wherever in the opinion of the Departmental Representative there is extra thickness, the appropriate measurement will be deducted.

- .18 Class B gravel – 300mm
 - .1 Unit of measure: square meter (m²).
 - .2 Method of measurement: slope measure of surface area.
 - .3 This item includes: supply, placement, hauling, grading, and compaction of granular materials for parking lot and roadway. Grading and compaction of existing subgrade below granular materials is included in items 10 and 11.
 - .4 There shall be no payment for extra thickness of rock borrow or subbase and base materials placed outside of specified limits. Whenever in the opinion of the Departmental Representative there is extra thickness, the appropriate weight will be deducted.

- .19 Class A gravel – 200mm
 - .1 Unit of measure: square meter (m²).
 - .2 Method of measurement: slope measure of surface area.
 - .3 This item includes: supply, placement, hauling and compaction of granular materials for parking lot and roadway.

- .4 There shall be no payment for extra thickness of rock borrow or subbase and base materials placed outside of specified limits. Whenever in the opinion of the Departmental Representative there is extra thickness, the appropriate weight will be deducted.
- .20 Parking stall line painting
 - .1 Unit of measure: linear meter (m).
 - .2 Method of measurement: slope measurement
 - .3 This item includes: supply and application of paint in the colours, sizes, and configurations shown on the drawings or as directed by Departmental Representative in the field.
- .21 Parking lot hatch painting
 - .1 Unit of measure: square meter (m²).
 - .2 Method of measurement: slope measure of surface area including perimeter line.
 - .3 This item includes: supply and application of paint in the colours, sizes, and configurations shown on the drawings or as directed by Departmental Representative in the field.
- .22 100mm Concrete sidewalk, straight broom finish
 - .1 Unit of measure: square meter (m²).
 - .2 Method of measurement: slope measurement of surface area.
 - .3 This item includes: supply, placement, and finishing of concrete sidewalk, control and expansion joints, and supply and placement of backfill as indicated on the drawings or as directed by Departmental Representative in the field.
- .23a 200mm Class B granular sidewalk base
 - .1 Unit of measure: square meter (m²).
 - .2 Method of measurement: slope measure of surface area.
 - .3 This item includes: supply, placement, hauling, grading, and compaction of granular materials for sidewalk granular base as indicated on the drawings or as directed by Departmental Representative in the field. Grading and compaction of existing subgrade below granular materials is included in items 10 and 11.
- .23b 150mm Class A granular sidewalk base
 - .1 Unit of measure: square meter (m²).
 - .2 Method of measurement: slope measure of surface area.
 - .3 This item includes: supply, placement, hauling and compaction of granular materials for sidewalk granular base as indicated on the drawings or as directed by Departmental Representative in the field. Grading and compaction of existing subgrade below granular materials is included in items 10 and 11.
- .23c 100mm Class A granular at crusher dust paving, trails (typical), and landscape boulders
 - .1 Unit of measure: square meter (m²)
 - .2 Method of measurement: slope measure of surface area.
 - .3 This item includes: supply, placement, hauling and compaction of base granular materials for crusher dust paving, trails (typical), and landscape boulders. This item also includes grading and compaction of existing subgrade below granular materials prior to their installation to provide required subgrades.
- .24 Re-install stockpiled paving stones, including 150mm granular base

- .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: slope measure of surface area.
 - .3 This item includes: The unit price will be full compensation for material, equipment, and work required for re-installation of stockpiled paving stones, including new base granular as indicated on the drawings, or as directed by Departmental Representative in the field.
- .25 Flush concrete curb, including granular base
- .1 Unit of measure: linear meter (m).
 - .2 Method of measurement: slope measure along top of curb
 - .3 This item includes: mass excavation and embankment - common, supply and installation of 150 mm Class A granular base, CIP concrete flush curb, control joints, backfill to subgrade for adjacent surface as indicated on the drawings, or as directed by Departmental Representative in the field.
- .26 Poured-in-place concrete step, including granulars
- .1 Unit of measure: linear meter (m).
 - .2 Method of measurement: measure along face of tread
 - .3 This item includes: mass excavation and embankment - common, 300 mm Class A granular base, supply, placement, and finishing of concrete steps, steel bars, control joints, expansion joints, and supply and placement of backfill to subgrade for adjacent surface as indicated on the drawings, or as directed by Departmental Representative in the field.
- .27 Landscape boulders at pavement
- .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: Supply and install of landscape boulders, pavement cutting, base granulars, crusher dust infill, all other materials indicated on the drawings, or as directed by Departmental Representative in the field.
- .28 New landscape boulders in soft landscape, including granulars
- .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: Supply and install of landscape boulders, base granulars, all other materials indicated on the drawings, or as directed by Departmental Representative in the field.
- .29 Re-install stockpiled landscape boulders, including granulars
- .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: The unit price will be full compensation for material, equipment, and work required for re-installation of stockpiled landscape boulders, including new base granulars as indicated on the drawings, or as directed by Departmental Representative in the field.
- .30 Gabion baskets
- .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed

- .3 This item includes: Supply and install of Gabion baskets, including roundstone infill, base granulars, drains, and landscape fabric as indicated on the drawings, or as directed by Departmental Representative in the field.

- .31 Custom wood seat top for gabion walls
 - .1 Unit of measurement: linear meter (m).
 - .2 Method of Measurement: measure along top of bench
 - .3 This item includes: Supply and install of wood seat top including pressure treated wood frame, aluminum straps, fasteners, hardware indicated as indicated on the drawings, or as directed by Departmental Representative in the field.

- .32 600mm wide rock swale
 - .1 Unit of measure: linear meter (m).
 - .2 Method of measurement: along centreline of swale
 - .3 This item includes: excavation and removal & disposal of excess material, environmental protection, supply and install of geotextile, clear stone, and side reinstatement with sod as indicated on the drawings, or as directed by Departmental Representative in the field.

- .33 Crusher dust paving at entrances (picnic areas)
 - .1 Unit of measure: square meter (m²).
 - .2 Method of measurement: slope measure of surface area.
 - .3 This item includes: excavation and removal & disposal of excess material, supply and install of compacted crusher dust paving including granular subbase, and compacted subgrade as indicated on the drawings, or as directed by Departmental Representative in the field.

- .34 1.2m wide crusher dust trail (typical)
 - .1 Unit of measure: linear meter (m).
 - .2 Method of measurement: slope measure at centreline of trail
 - .3 This item includes: Supply and install of crusher dust paving including granular subbase, and compacted subgrade as indicated on the drawings, or as directed by Departmental Representative in the field. Item does not include Class A granular (see item 23c)

- .35 1.8m wide crusher dust trail (typical)
 - .1 Unit of measure: linear meter (m).
 - .2 Method of measurement: slope measure at centreline of trail
 - .3 This item includes: Supply and install of crusher dust paving including granular subbase, and compacted subgrade as indicated on the drawings, or as directed by Departmental Representative in the field. Item does not include Class A granular (see item 23c)

- .36 1.8m wide trail in bog area
 - .1 Unit of measure: linear meter (m).
 - .2 Method of measurement: slope measure at centreline of trail
 - .3 This item includes: Supply and install of granular paving mixture, geo-grid, subbase material, and rehabilitation of edge as indicated on the drawings, or as directed by Departmental Representative in the field.

- .37 Wood handrails
 - .1 Unit of measurement: linear meter (m).

- .2 Method of Measurement: measure along top of handrail
- .3 This item includes: Supply and install of wood posts and rails, including Class A Gravel, fasteners, hardware, and end cut preservative as indicated on the drawings, or as directed by Departmental Representative in the field.

- .38 Stacked rock retaining wall at trails
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: square meter face measured from grade
 - .3 This item includes: Supply and install of locally sourced stone retaining wall, including geotextile, backfill material as indicated on the drawings, or as directed by Departmental Representative in the field.

- .39 Wood chip mulch play surface
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: slope measure of surface area.
 - .3 This item includes: Supply and install of clean natural wood chip mulch to specified depths after settlement as indicated on the drawings, or as directed by Departmental Representative in the field. Item includes removal of unsuitable subbase material and grading of subbase.

- .40 100mm topsoil (reuse topsoil stockpiled from removal; import from local source as required)
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: slope measure of surface area.
 - .3 This item includes: Supply and install of topsoil to specified depths after settlement as indicated on the drawings, or as directed by Departmental Representative in the field.

- .41 Sod
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: slope measure of surface area.
 - .3 This item includes: excavation, supply and install topsoil, lime, fertilizer, sod, required accessories, and maintenance.

- .42 Hydroseed
 - .1 Unit of measurement: square meter (m²).
 - .2 Method of Measurement: slope measure of surface area.
 - .3 This item includes: supply and install of, topsoil, hydroseed mix, mulch, erosion control agent, water and fertilizer as specified and maintenance.

- .43 2m coniferous tree planting
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: supply and install of tree, planting mixture, mulch, lime and fertilizer, tree supports and accessories and maintenance as specified and as indicated on the drawings, or as directed by Departmental Representative in the field.

- .44 3gal shrub planting, including soil and all accessories
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed

- .3 This item includes: supply and install of shrub, planting mixture, mulch, and maintenance as specified and as indicated on the drawings, or as directed by Departmental Representative in the field.

- .45 1gal herbaceous planting
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: supply and install of herbaceous shrub, planting mixture, mulch, and maintenance as specified and as indicated on the drawings, or as directed by Departmental Representative in the field.

- .46 Picnic table
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: supply and install of picnic tables including precast concrete slab and anchors as specified and as indicated on the drawings, or as directed by Departmental Representative in the field.

- .47 Re-install flagpoles
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: protect, store, and re-install exiting flagpoles on new concrete footing to match existing installation as indicated on the drawings, or as directed by Departmental Representative in the field.

- .48 Re-install Parks Canada Highway Sign to match existing installation
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: protect, store, and re-install exiting Parks Canada Highway Sign on new concrete footings to match existing installation, grading, required fill, and reinstatement, as indicated on the drawings, or as directed by Departmental Representative in the field.

- .49 Re-install waste receptacles on concrete base
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: protect, store, and re-install exiting waste receptacles on new concrete base as indicated on the drawings, or as directed by Departmental Representative in the field.

- .50 Trail Signage (Parks Canada Standard)
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: Supply and install of wooden post trail marker including aluminum panel, fasteners, hardware, as indicated on the drawings, or as directed by Departmental Representative in the field.

- .51 Trail Blazers (Parks Canada Standard)
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed

- .3 This item includes: Supply and install of wooden post trail marker including aluminum panel with messaging, fasteners, hardware, as indicated on the drawings, or as directed by Departmental Representative in the field.
- .52 Trail Blazers (Parks Canada Standard)
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units installed
 - .3 This item includes: Supply and install of wooden post trail marker including aluminum panel with messaging, fasteners, hardware, as indicated on the drawings, or as directed by Departmental Representative in the field.
- .53 Removal of unsuitable soils and export off-site
 - .1 Unit of measurement: cubic meters (m³).
 - .2 Method of Measurement: average end area method of volume of unsuitable material between cross sections taken before and after excavation.
 - .3 This item includes: all excavation of unsuitable material and disposal. Written authorization of Engineer required.
- .54 Surge Rock
 - .1 Unit of measurement: cubic meters (m³).
 - .2 Method of Measurement: average end area method for volume of unsuitable material or ticket of surge material.
 - .3 This item includes: placement and compaction of surge rock in locations where unsuitable material has been excavated as directed by the Engineer. Written authorization of Engineer required.
- .55 Substitute ½" pea gravel for Wood chip mulch play surface
 - .1 Unit of measurement: cubic meters (m³).
 - .2 Method of Measurement: average end area method for volume
 - .3 This item includes: supply and install of pea gravel play surface as substitution for wood chip mulch to depth indicated on the drawings and as directed by the Departmental Representative.
- .56 8" corrugated steel culverts under trail
 - .1 Unit of measurement: linear meters (m).
 - .2 Method of Measurement: along centreline of pipe
 - .3 This item includes: supply and install of corrugated steel culverts under trail, as directed by the Departmental Representative.
- .57 Removal of single tree, including stump
 - .1 Unit of measurement: each (ea).
 - .2 Method of Measurement: number of units removed
 - .3 This item includes: removal and disposal of single tree, including stump as directed by Departmental Representative.
- .58 Import additional topsoil to site (from local source, per specifications)
 - .1 Unit of measurement: cubic meters (m³).
 - .2 Method of Measurement: average end area method for volume.

- 3 This item includes: supply and placement of topsoil from a local source per the specifications or as directed by the Departmental Representative.

- .59 Imported fill from local source (premium borrow)
 - .1 Unit of measurement: cubic meters (m³).
 - .2 Method of Measurement: average end area method for volume.
 - 3 This item includes: supply and placement of fill from a local source per the specifications or as directed by the Departmental Representative.

- .60 Remove excess topsoil / bog material / forest duff off-site (to Big Brook Quarry, Terra Nova)
 - .1 Unit of measurement: cubic meters (m³).
 - .2 Method of Measurement: average end area method for volume.
 - 3 This item includes: removal and disposal of excess topsoil / bog material / forest duff off-site at Big Brook Quarry, Terra Nova, as directed by the Departmental Representative.