

Part 1 General

1.1 GENERAL REQUIREMENTS OF THE BID AND ACCEPTANCE FORM

- .1 This section covers the measurement of Work done for payment purposes.
- .2 The quantities listed in the Bid and Acceptance Form are approximate only and are for the purpose of tendering. Payment to the Contractor will be based on actual quantities of work completed in accordance with the Drawings and Specifications.
- .3 There shall be no measurement or payment for Work carried out beyond the limits defined on the Drawings.
- .4 The total of all Unit Prices and Lump Sum payments shall constitute full compensation for the entire Work of the Contract, as shown, specified, and intended.
- .5 The Contractor will only be entitled to payment 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.
- .6 The unit and lump sum prices for all items in the Unit Price Table and Lump Sum Table shall represent the full compensation for the work of the item and shall include the cost of furnishing all materials, labour, tools, and equipment necessary to complete the work in accordance with the Contract, the Drawings and Specifications, and shall cover all costs of surety. Each item shall include all necessary supervision, plant and services, and all operations and allowances customary and necessary to complete each item and the Contract as a whole, notwithstanding the fact that not every such necessary operation is mentioned or included specifically for measurement.
- .7 Unless specified otherwise, all materials necessary to complete the items listed in the Unit Price Table, Lump Sum Table and the finished Work shall be new materials supplied by the Contractor and the cost of such material is to be included in the Contractor's prices.
- .8 All measurements for progress payment purposes shall be taken jointly by the Contractor and the Departmental Representative.
- .9 Items which are measured by the meter shall be measured along centreline of installation unless otherwise indicated.
- .10 Longitudinal and transverse measurement shall be made on the actual flat or sloped surface.
- .11 In computing volumes of excavation, average end area method will be used unless otherwise directed by Departmental Representative.
- .12 All volume measurements refer to in-place measures unless specified otherwise.

- .13 Materials which are specified for measurement by mass shall be weighed on scales approved by Departmental Representative refer to Section 01 54 30 – Temporary Weigh Scales. Units used to haul material being paid for by mass shall bear legible identification numbers plainly visible to scale person as it approaches and leaves scale-house.
- .14 There will be no payment for work carried out on weighed material in the absence of weight tickets.
- .15 Overhaul will not be paid on this Contract.

1.2 MEASUREMENT AND PAYMENT

- .1 The numbers of the items described below correspond to the items in the Bid and Acceptance Form.
- .2 All items in this Contract will be paid for as indicated in the Bid items below:
 - .1 **Section A** items are Bid items (Lump Sum and Unit Price) related to the Bridge Work, and
 - .2 **Section B** items are Bid items (Lump Sum and Unit Price) related to the Road Work.

1.3 SECTION A- BRIDGE WORK ITEMS (LUMP SUM TABLE)

- .1 Lump Sum Item 1A – Section 01 25 20 – Mobilization / Demobilization
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This Item includes:
 - .1 For 50% of Lump Sum Contract price for mobilization and demobilization to be paid when mobilization to site is complete. The remainder of the Lump Sum price for mobilization and demobilization to be paid when work is complete, and all materials, equipment, buildings, shops, offices, and other facilities have been removed from site and site cleaned and left in condition to the satisfaction of the Departmental Representative and all other agencies having jurisdiction.
- .2 Lump Sum Item 2A – Section 01 35 00.06 - Special Procedures for Traffic Control
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This Item includes:
 - .1 Traffic control persons and traffic accommodation person(s).
 - .2 Provision, installation, and maintenance of temporary traffic control devices, including; traffic control signals, construction signage, delineator drums, jersey barriers, and temporary pad sites.
 - .3 Traffic control devices and measures required to comply with NSTIR's Temporary Workplace Traffic Control Manual (TWTCM) including but not limited to all labour, materials and equipment related to traffic control, Accredited Sign Supervisor, traffic control signage, traffic control

signals, flashing light units, reflectors, F-shape barriers, traffic barrels, and TC-63 delineator drums (double weighted) etc.

- .3 Lump Sum Item 3A – Section 01 35 43 – Environmental Procedures
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This item includes:
 - .1 Maintenance of all erosion control measures as directed by Departmental Representative.
 - .2 All environmental protection, sedimentation and erosion control measures required to complete the project, such as (but not limited to) diversion ditching, temporary ground covers, and rock flow checks in accordance with Parks Canada National Best Management Practices – Roadway, Highway, Parkway, and Related Infrastructure (May 2015), and Best Management Practices (Mitigation) **Appendix B**, Works In and Around Waterbodies, Grande Anse Bridge Rehabilitation **Appendix C**.
 - .3 Submission of the Environmental Protection Plan (EPP) as per the EPP Template Document, provided in **Appendix D**. The EPP shall be developed using this template document and is to be submitted to the Departmental Representative for review and approval.
- .4 Lump Sum Item 4A - Section 02 41 16 - Structure Demolition – Includes Abrasion Blast Cleaning
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This item includes:
 - .1 Demolition, transporting and disposal of existing bridge structure components, including abrasive blast cleaning of deck and approach slab and blast cleaning of exposed existing reinforcing bars as indicated in the Contract Documents to the approval of Departmental Representative. This item shall include but is not limited to removal of the existing bridge barriers in addition to concrete to be removed and tippage fees.
 - .2 Dismantling, transporting and disposal of guide rail, hardware, wooden guide posts and offset blocks as indicated in the Contract Documents and to the approval of the Departmental Representative.
- .5 Lump Sum Item 5A - Section 07 19 10 – Concrete Coating and Sealer – Acrylic Coating
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This item includes:
 - .1 Preparation of surfaces, supply and installation of concrete coating system (acrylic coating).
- .6 Lump Sum Item 6A – Other Items Not Included in the Unit Price Table
 - .1 Unit of Measurement: Lump Sum (LS).
 - .2 This item includes: All other work considered incidental to the work and which are not specifically mentioned or accounted for in the Unit Price Table or other

items in the Lump Sum Table but are necessary to complete the Work in accordance with the Contract, the Drawings, and Specifications. This item shall include but is not limited to the following; project layout and surveying, health and safety co-ordinator, weigh scales, permits, water control, fish rescue, drainage requirements, and approvals required to complete the Work.

1.4 SECTION A - BRIDGE WORK ITEMS (UNIT PRICE TABLE)

- .1 Unit Price Item 1A - Section 02 41 13.14 - Asphalt Pavement Removal
 - .1 Unit of Measurement: Square Metres (m²).
 - .2 Method of Measurement: Horizontal measurement of surface area.
 - .3 This item includes: the supply of all necessary materials, labour and equipment required for asphalt pavement removal associated with the Grande Anse Bridge as indicated on the Contract Drawings. Milling of the asphalt at the Grande Anse Bridge will be required to expose the concrete on the bridge deck and approach slabs, to provide transition to finished grade at the roadway, and to allow for the placement of asphalt pads at the both ends of the bridge. The Contractor shall, at no additional costs, supplement with additional coring as required if additional information on the existing asphalt thickness is required. Payment will include all milling, cutting, removal, hauling and, disposal of asphalt. The Contractor shall replace at no extra cost to the Departmental Representative, asphalt driving surface in any areas where milling operations break through to underlying granulars.
 - .4 Asphalt removal for the construction of temporary tapers, keyed joints and, transition joints at the intersection of existing paved roadways, shall be considered incidental to the overall Work.
- .2 Unit Price Item 2A - Section 03 15 15 – Laminated Elastomeric Bridge Bearings
 - .1 Unit of Measurement: Each (Ea).
 - .2 This item includes: Labour, supply and installation of jacks, jacking of existing concrete beams, removal of the existing steel bottom bearing plates, protection of steel surfaces to remain, blast cleaning of exposed surfaces of bearing surfaces, application of two coats rust inhibiting primer on exposed surfaces beam plate, preparation of shop drawings, and the supply and installation of new laminated elastomeric bearing pads, and all ancillaries required to complete the works to approval of Department Representative.
- .3 Unit Price Item 3A - Section 03 20 00 – Concrete Reinforcing – Reinforcing Steel
 - .1 Unit of Measurement: Kilogram (kg).
 - .2 This item includes: Shop Drawings, fabrication, supply, transportation, placing of steel reinforcing as indicated on Contract Drawings. Clips, wire or other mechanical means required for fastening are considered incidental to this bid item and will not be measured for payment.
- .4 Unit Price Item 4A - Section 03 30 00 – Cast-in-Place Concrete and Section 03 10 00 – Concrete Forming and Accessories

- .1 Unit of Measurement: Cubic Metre (m³).
 - .2 Method of Measurement: Volume measured from plan and cross-sectional dimensions as indicated on Contract Drawings.
 - .3 This item includes: Supply, transportation, placement of all cast-in-place concrete in wingwalls, bearing blocks and seats, diaphragms, curbs and crash blocks. This shall include all materials, aggregates, cement, supplementary cementing materials, water, admixtures, other materials, transportation, equipment, plant, tools, labour, formwork and falsework, form liners, curing, incidentals, and all other work necessary to complete the job as indicated on the Contract Drawings.
 - .4 There shall be no payment for extra thickness of concrete placed outside of limits. Whenever in the opinion of the Departmental Representative there is extra thickness, the appropriate volume will be deducted.
 - .5 The volume of concrete required for sampling and testing is also considered incidental to this item.
 - .6 Supply and placement of concrete curb joint sealant as indicated on the Contract Drawings is considered incidental to this item.
- .5 Unit Price Item 5A - Section 03 30 51 – Bridge Deck Concrete – Partial Depth Repair (Provisional Item)
- .1 Unit of Measurement: Square Metre (m²).
 - .2 Method of Measurement: Plan area of partial depth repair to the bridge deck as indicated on Contract Drawings.
 - .3 This item includes: Supply, transportation, placement of all cast-in-place concrete required for partial depth repairs to the bridge deck. This shall include all materials, aggregates, cement, supplementary cementing materials, water, admixtures, other materials, transportation, equipment, plant, tools, labour, formwork and falsework, form liners, curing, incidentals, and all other work necessary to complete the job as indicated on the Contract Drawings and finishing of concrete as described under Section 03 30 00. This shall also include the fabrication, supply, transportation, placing of steel reinforcing as indicated on Contract Drawings for partial depth deck repairs.
 - .4 There shall be no payment for extra thickness of concrete placed outside of limits. Whenever in the opinion of the Departmental Representative there is extra thickness, the appropriate volume will be deducted.
 - .5 The volume of concrete required for sampling and testing is also considered incidental to this item.
- .6 Unit Price Item 6A - Section 03 30 52 - High Strength Patching Mortar
- .1 Unit of Measurement: Square Metre (m²).
 - .2 Method of Measurement: Area of repairs to depth of 150mm, dimensions as indicated on Contract Drawings.
 - .3 This item includes: Preparation of existing concrete and reinforcing, supply, transportation, placement of all repair mortar as indicated on Contract Drawings. Work done up to a base depth of 150 mm will be paid at the contract unit price rate. Work done with depth greater than 150 mm as approved by Department

Representative. Payment will be based on the progressive multiple 150 mm depth of cut, beyond the initial 150 mm, multiplied by number of square meters at that depth with the price increasing 50% at each level.

- .7 Unit Price Item 7A - Section 05 12 33 – Structural Steel for Bridges – Metal Traffic Barriers and Metal Railings for Structures and Section 05 50 00 – Metal Fabrications.
- .1 Unit of Measurement: Linear Metre (m).
 - .2 Method of Measurement: Lineal metres of railings installed as indicated on the drawings. The measurement shall be taken along the centre of the railings from end to end of rails.
 - .3 This item includes: Shop drawings, erection drawings, fabrication, supply, delivery and installation of complete railing system as indicated and necessary for this work as measured from the Contract Drawings.
- .8 Unit Price Item 8A - Section 05 50 00 – Metal Fabrications – Deck Drain Outlet Extensions and Section 05 12 33 – Structural Steel for Bridges
- .1 Terms of Payment: Kilogram (kg).
 - .2 This item includes: Shop drawings, supply and installation of the deck drain outlet extensions and the galvanized armour angles as detailed on the Contract Drawings. This shall include supply and installation, including all tools, labour, materials, equipment and services necessary to complete the work.
- .9 Unit Price Item 9A - Section 07 11 00 – Bridge Deck Waterproofing
- .1 Unit of Measurement: Square Metre (m²).
 - .2 Method of Measurement: Plan area of bridge deck and approach slabs concrete horizontal top surface as indicated on the drawings.
 - .3 This item includes: Preparation of surfaces, supply and installation of waterproofing membrane, protection board and tack coat on bridge decks and approach slabs as applied to the bridge deck and approach slabs and extending 80 mm vertically on each curb. Measurement shall be based on the Contract Drawings.
- .10 Unit Price Item 10A - Section 07 19 10 – Concrete Coating and Sealer – Silane Sealer
- .1 Unit of Measurement: Square Metre (m²).
 - .2 Method of Measurement: Plan area of bridge deck and approach slab concrete horizontal top surface as indicated on the drawings. Top surface of bridge girder bearing seat surfaces at both abutments.
 - .3 This item includes: Preparation of surfaces, supply and installation of concrete silane sealer on bridge decks and approach slabs as measured from Contract Drawings.
- .11 Unit Price Item 11A - Section 07 95 23 – Sealed Expansion Joint Assemblies
- .1 Unit of Measurement: Each (Ea).

- .2 This item includes: Supply and installation of the complete sealed expansion joint assemblies in accordance with this specification item section. This shall include steel extrusions, cover plates, anchors, inserts, screws and the compressible seal.
- .3 Removal of the existing system is considered incidental to this item.

1.5 SECTION B – ROAD WORK ITEMS (LUMP SUM TABLE)

- .1 Lump Sum Item 1B – Section 01 21 00 – Prime Cost Sum
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This Item includes, but not limited to:
 - .1 Coordination efforts by the Contractor for the removal and relocation of hydro poles and associated infrastructure. This includes temporary relocation and reinstatement of the aboveground and underground utilities provided by NS Power and Bell Aliant to the satisfaction of the Departmental Representative.
 - .2 All incidentals to cover miscellaneous work (allowance) which may occur during work on the project. Payment will be made against it for miscellaneous work not included under items specified in the Lump Sum or Unit Price Tables ordered under GC 6.1 of the General Conditions. Prime Cost Sum is not a sum due the Contractor.
- .2 Lump Sum Item 2B – Section 01 25 20 – Mobilization / Demobilization
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This Item includes:
 - .1 For 50% of Lump Sum Contract price for mobilization and demobilization to be paid when mobilization to site is complete. The remainder of the Lump Sum price for mobilization and demobilization to be paid when work is complete, and all materials, equipment, buildings, shops, offices, and other facilities have been removed from site and site cleaned and left in condition to the satisfaction of the Departmental Representative and all other agencies having jurisdiction.
- .3 Lump Sum Item 3B – Section 01 35 00.06 - Special Procedures for Traffic Control
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This Item includes:
 - .1 Traffic control persons and traffic accommodation person(s).
 - .2 Provision, installation, and maintenance of temporary traffic control devices, including; detour signs, construction signage, trail closure signage and barricades, portable variable message signs, delineator drums, jersey barriers, and temporary pad sites.
 - .3 Provision, maintenance and removal of **all** detours and reinstatement to pre-detour conditions.
 - .4 Vehicles including pilot vehicle including means of transporting cyclist and their bicycles through the work area, equipment, supplies, and additional manpower required by traffic accommodation persons.

- .5 Traffic control devices and measures required to comply with NSTIR's Temporary Workplace Traffic Control Manual (TWTCM) including but not limited to all labour, materials and equipment related to traffic control, Accredited Sign Supervisor, traffic control signage, traffic control signals, flashing light units, reflectors, F-shape barriers, traffic barrels, and TC-63 delineator drums (double weighted) etc.
- .4 Lump Sum Item 4B – Section 01 35 43 – Environmental Procedures
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This item includes:
 - .1 Maintenance of all erosion control measures as directed by Departmental Representative.
 - .2 All environmental protection, sedimentation and erosion control measures required to complete the project, such as (but not limited to) diversion ditching, temporary ground covers, and rock flow checks in accordance with Parks Canada National Best Management Practices – Roadway, Highway, Parkway, and Related Infrastructure (May 2015).
 - .3 Submission of the Environmental Protection Plan (EPP) as per the EPP Template Document, provided in **Appendix D**. The EPP shall be developed using this template document and is to be submitted to the Departmental Representative for review and approval.
- .5 Lump Sum Item 5B – Section 01 52 00 – Construction Facilities
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This item includes:
 - .1 Provide and maintain adequate access to project site.
 - .2 Build and maintain temporary roads during period of the Work.
 - .3 Upon completion of the Work, rehabilitate any temporary roads to the satisfaction of the Departmental Representative.
 - .4 Clean roads and parking areas where used by the Contractor or employees.
 - .5 Provide, erect and maintain project identification site signs, safety and instruction signs, trail and access closure signs and notices.
 - .6 Provide sanitary facilities.
 - .7 Construction Site Trailer(s).
 - .8 Asphalt and Aggregate Lab facilities.
 - .9 Removal of temporary facilities from site as directed by the Departmental Representative.
- .6 Lump Sum Item 6B – Section 10 14 53 – Traffic Signage
 - .1 Terms of Payment: Lump Sum (LS).
 - .2 This item includes:

- .1 Supply and installation of new regulatory and warning signs and timber posts, including all hardware including all excavation, backfill and compaction as indicated on the Plans. Regulatory and warning signs to be supplied by the Contractor.
 - .2 Supply and installation of new timber/metal posts, foundations and reinstatement of salvaged or new Parks Canada signs; including all hardware, all excavation, backfill and compaction as indicated on the Plans. This work also includes the required relocation of the 'Road Closed Ahead' sign and electrical components. Parks Canada signs to be supplied by the Departmental Representative.
 - .3 Work considered incidental to this item are the removal of existing signs, posts and hardware being replaced, reinstated or removed including filling of holes and reinstatement of disturbed surfaces. Any Signs, Posts and associated hardware that are deemed salvageable by the Departmental Representative shall be delivered to the Park Compound (Cheticamp). Any Signs, Posts and associated hardware that are non-salvageable shall be disposed of by the Contractor.
 - .4 Removal and Reinstatement of sign pads is considered incidental to the Work.
 - .5 There shall be no payment for transporting and stockpiling materials.
- .7 Lump Sum Item 7B – Section 32 17 23 – Pavement Markings
- .1 Terms of Payment: Lump Sum (LS).
 - .2 This item includes: The supply and application of paint in the colours, sizes, and configurations shown on the Drawings and as specified by the Departmental Representative. Also includes layout and pre-marking. All delineation markings, and other special markings in the sections will be considered incidental to this item. No additional payment for traffic control associated with the application of pavement markings shall be made.
- .8 Lump Sum Item 8B – Other Items Not Included in the Unit Price Table
- .1 Unit of Measurement: Lump Sum (LS).
 - .2 This item includes: All other work considered incidental to the work and which are not specifically mentioned or accounted for in the Unit Price Table or other items in the Lump Sum Table but are necessary to complete the Work in accordance with the Contract, the Drawings, and Specifications.
 - .3 This item shall include but is not limited to the following:
 - .1 Project layout and surveying.
 - .2 Provision for a full-time, on-site Health and Safety Co-Ordinator.
 - .3 Weigh scales.
 - .4 Permits and Approval required to complete the Work.
 - .5 Water control, and fish rescue.
 - .6 Supply, delivery and placement of specified plantings and landscaping requirements at culvert outlets.

- .7 Landscape reclamation work at the grubbing storage yard
- .8 Any berm construction, trail connections, temporary structures, drainage requirements required to complete the Work to the satisfaction of the Departmental Representative.

1.6 SECTION B - ROAD WORK ITEMS (UNIT PRICE TABLE)

- .1 Unit Price Item 1B - Section 02 41 13 - Selective Site Demolition - Removal of Guard Rail and Posts.
 - .1 Unit of Measurement: Linear Metre (m).
 - .2 Method of Measurement: End points of measurements will be at centreline of the guide rail and at the ends of each section of guide rail.
 - .3 This item includes: Transporting, dismantling, salvage, stockpiling, and disposal of guide rail, hardware, wooden guide posts and offset blocks as indicated in the Contract Documents to an approved facility to the approval of the Departmental Representative. Delivery slips are to be provided to Departmental Representative prior to payment.
 - .4 For all other items to be removed such as (but not limited to) fencing, driveway markers, etc. including location and protection (in operating condition) of utilities traversing the site there shall be no measurement for payment and the work is considered incidental to the overall work of the project.
- .2 Unit Price Item 2B - Section 31 05 16 – Aggregate Materials – Rock Fill (200mm minus)
 - .1 Unit of Measurement: Metric Tonne (t).
 - .2 Method of Measurement: Scale tickets signed by the Departmental Representative.
 - .3 This item includes: Supply, haulage, placement and compaction of rock fill material to the limits and at the locations indicated on the Drawings or as directed by the Departmental Representative.
 - .4 There shall be no payment for extra thickness of aggregate materials placed outside of limits. Whenever in the opinion of the Departmental Representative there is extra thickness or width, the appropriate weight will be deducted.
- .3 Unit Price Item 3B - Section 31 11 00 – Clearing
 - .1 Unit of Measurement: Hectare (ha).
 - .1 Clearing will be measured in hectares by plan area within limits indicated or as directed by the Departmental Representative.
 - .2 This Section includes: The cutting and disposal of all trees and brush from areas indicated.
 - .3 There will be no payment for areas cleared outside the Work area unless approved by the Departmental Representative.
- .4 Unit Price Item 4B - Section 31 11 00 – Grubbing
 - .1 Unit of Measurement: Hectare (ha).

- .1 Grubbing will be measured in hectares by plan area within the limits indicated or as directed by the Departmental Representative.
 - .2 This Section includes: The removal, hauling, and stockpiling of all stumps, roots, downed timber, slash embedded logs, rootmat, humus, and topsoil stripping from areas indicated on the Contract Drawings. Grubbings are to be screened and processed for future top dressing finished grades prior to hydroseeding as directed by the Departmental Representative.
 - .3 Placement of screened and processed organic grubbing and topsoil materials shall be considered as incidental to the Work.
 - .4 Any Work at stockpiles and disposal sites is incidental to the Contract.
 - .5 There will be no payment for areas grubbed outside the Work area unless approved by the Departmental Representative.
- .5 Unit Price Item 5B – Section 31 23 33.01 – Excavating, Trenching and Backfilling – Cut Common
- .1 Unit of Measurement: Cubic Metre (m³).
 - .2 Method of Measurement: To the theoretical lines and grades as indicated on the Drawings, along with final cross sections to the finished lines and grades.
 - .3 This item includes: Excavation, loading, hauling, disposal of surplus or unsuitable material, placement and compaction of excavated material as indicated on the Drawings, including areas where culverts are being removed and not replaced. Surplus material not incorporated into the roadway cross section shall become the property of the Contractor and disposed of outside the Park.
 - .4 This item does **not** include culvert replacement locations, grubbing, guard rail, signage removals and installations which are deemed to be included in those respective items.
 - .5 This item includes shoring, bracing, cofferdams, underpinning and de-watering of excavation if required.
 - .6 There shall be no payment for excavation beyond the limits indicated on the Drawings.
 - .7 Any additional backfill material required to complete the Work is to be sourced by the Contractor to the approval of the Departmental Representative and will not be measured separately for payment and shall be considered as incidental to the Work.
 - .8 Excavation and Disposal of unsuitable materials due to Contractor activities will not be measured separately for payment.
 - .9 Re-ditching of the existing roadway embankments in distress areas at locations as indicated on the Drawings will not be measured separately for payment and shall be considered as incidental to the Work.
- .6 Unit Price Item 6B – Section 31 23 33.01 – Excavating, Trenching and Backfilling – Borrow Common
- .1 Unit of Measurement: Metric Tonne (t).

- .2 Method of Measurement: To the theoretical lines and grades as indicated on the Drawings, along with final cross sections to the finished lines and grades.
- .3 This item includes: Loading, hauling, placement, and compaction of approved fill material, as indicated on the Drawings, including areas where culverts are being removed and not replaced.
- .4 This item does **not** include culvert replacement locations, guard rail, signage removals and installations which are deemed to be included in those respective items.
- .5 There shall be no payment for fill placed beyond the limits indicated on the Drawings.
- .6 Borrow material to complete the Work is to be sourced and provided by the Contractor to the approval of the Departmental Representative. There shall be no extra payment for additional borrow material required to complete the works.
- .7 Unsuitable materials fill materials placed due to Contractor activities shall be removed from the project limits and shall not be measured for payment.
- .7 Unit Price Items 7B, 8B and 9B – Section 31 37 00 - Rip-Rap – R25, Rip-Rap – R100 and Rip-Rap – R250 (Provisional Item)
 - .1 Unit of Measurement: Metric Tonne (t).
 - .2 Method of Measurement: Scale tickets signed by the Departmental Representative.
 - .3 This item includes: Supply, placement and compaction of Rip-Rap materials at culvert inlets, outlets and offtakes, along steep ditch slopes, roadway backslopes and areas as indicated on the Contract Drawings at the direction of the Departmental Representative.
 - .4 Supply and placement of geotextiles is considered incidental to this item.
- .8 Unit Price Item 10B - Section 32 11 23 - Shoulder Material - Reclaimed Asphalt Product (RAP)
 - .1 Unit of Measurement: Cubic Metre (m³).
 - .2 Method of Measurement: To the theoretical lines and grades as indicated on the Drawings.
 - .3 This item includes: Screening, processing, haulage, placement and compaction of shoulder material (RAP) to the limits and at the locations indicated on the Drawings. RAP shouldering material for use on this work shall be obtained from PCA's Pleasant Bay Salt Storage Yard located at Station 36+500.
 - .4 There shall be no payment for extra thickness or width of shoulder material placed outside of the theoretical lines and grades as indicated on the Drawings unless approved or directed by the Departmental Representative.
- .9 Unit Price Item 11B - Section 32 11 23 – Aggregate Base Courses – Type 1 Gravel
 - .1 Unit of Measurement: Metric Tonne (t).
 - .2 Method of Measurement: From scale and ticket generated and signed by the Departmental Representative.

- .3 This item includes: Supply, handling, loading, hauling, placing, fine grading and compaction of granular base materials, as well as any incidentals, to the limits and at the locations indicated on the Drawings.
- .4 There shall be no payment for extra thickness or width of base materials placed outside of the theoretical lines and grades as indicated on the Drawings. Whenever in the opinion of the Departmental Representative there is extra thickness or width, the appropriate weight will be deducted.
- .10 Unit Price Item 12B - Section 32 12 16 – Asphalt Paving – Type “D-HF”
 - .1 Unit of Measurement: Type “D-HF” – Metric Tonne (t).
 - .2 Method of Measurement: From scale and ticket generated and signed by the Departmental Representative.
 - .3 Payment adjustment will be made for escalation/de-escalation in the price of liquid asphalt in accordance with the supplementary conditions of the Contract documents.
 - .4 There shall be no payment for extra thickness or extra width of asphalt placed outside of the theoretical lines and grades as indicated on the Drawings. Wherever in the opinion of the Departmental Representative there is extra thickness or width, the appropriate weight will be deducted.
 - .5 This item includes: Supply, loading, hauling, placement and compaction as indicated and all equipment, labour, materials required, **including the material transfer vehicle. It includes the supply and application of tack coat as required** and temporary pavement markings. Asphalt Cement will be paid for separately.
- .11 Unit Price Item 13B - Section 32 12 16 – Asphalt Paving – AC Paving for Widening
 - .1 Unit of Measurement: Type “D-HF” – Metric Tonne (t).
 - .2 Method of Measurement: From scale and ticket generated and signed by the Departmental Representative.
 - .3 Payment adjustment will be made for escalation/de-escalation in the price of liquid asphalt in accordance with the supplementary conditions of the Contract documents.
 - .4 There shall be no payment for extra thickness or extra width of asphalt placed outside of the theoretical lines and grades as indicated on the Drawings. Wherever in the opinion of the Departmental Representative there is extra thickness or width, the appropriate weight will be deducted.
 - .5 This item includes: Supply, loading, hauling, placement and compaction as indicated and all equipment, labour, materials required, **including the material transfer vehicle. It includes the supply and application of tack coat as required.** Asphalt Cement will be paid for separately.
 - .6 Asphalt removal for the longitudinal milled key joint for widening, is considered incidental to this bid item.
- .12 Unit Price Item 14B – Section 32 12 16 – Asphalt Paving - Asphalt Cement
 - .1 Unit of Measurement: – Metric Tonne (t).

- .2 Method of Measurement: Performance Graded Asphalt Binder (PGAB) shall be paid at the Contract bid Unit Price per tonne. The quantity of PGAB to be paid for under this section shall be calculated on the basis of the PGAB delivered to the plant and adjustments will be made for initial and final tank measurements corrected to 15°C, Contractor shall provide inbound delivery tank slips.
 - .3 The Contractor will not be reimbursed for PGAB that is used in other work or any that is wasted. If other work is undertaken by the Contractor, additional tank measurements will be undertaken to determine the quantity of PGAB used in the other work.
 - .4 The payment adjustment for PGAB will be made for escalation/de-escalation in the price of liquid asphalt in accordance per the supplementary conditions of the Contract documents.
- .13 Unit Price Item 15B – Section 32 15 60 – Roadway Dust Control – Water
- .1 Unit of Measurement: Kilolitres (kl).
 - .2 Method of Measurement: Water shall be measured in kilolitres. This item includes: Supply, loading, hauling and placement of water and at times as directed by the Departmental Representative.
 - .3 Delivery slips are to be provided to Departmental Representative prior to acceptance.
- .14 Unit Price Item 16B – Section 32 92 19.16 – Hydraulic Seeding – Hydroseeding
- .1 Unit of Measurement: Square Metre (m²).
 - .2 Method of Measurement: Slope measure
 - .3 This item includes: Supply, haulage and placement of hydroseed mix, erosion control agent, water and fertilizer as specified and maintenance.
- .15 Unit Price Item 17B – Section 32 92 19.16 – Hydraulic Seeding – Dry Mulch
- .1 Unit of Measurement: Square Metre (m²).
 - .2 Method of Measurement: Slope measure.
 - .3 This item includes: Supply, haulage and placement of dry mulch, erosion control agent, water and fertilizer as specified and maintenance.
 - .4 Mulch shall be blown.
- .16 Unit Price Items 18B, 19B, 20B, 21B, 22B, 23B - Section 33 42 13 – Pipe Culverts - (Various Sizes)
- .1 Unit of Measurement: Linear Metre (m) for each size and type of culvert.
 - .2 Method of Measurement: Along centreline of new culvert pipe, from end to end of culvert, as laid and as accepted by the Departmental Representative.
 - .3 Payment for this item includes:
 - .1 Dewatering of site and temporary water control.
 - .2 The removal and disposal of existing culverts, headwalls, cut off walls and foundations shall be incidental to the Work.

- .3 All required excavation including asphalt removal at culvert replacement locations.
 - .4 Excavation of trench, supply and placement of all bedding, and backfill material, and disposal of all old fill and culvert material, as well as any extra excavated material required to install new culvert. If existing fill material to top of subgrade is deemed suitable by the Departmental Representative, it shall be used for backfilling. Unsuitable fill material shall be disposed of, as directed by the Departmental Representative.
 - .5 Supply and placement of new culverts.
 - .6 Supply and placement of fish baffles as shown on Contract Drawings.
 - .7 Supply and installation of culvert tension assemblies and fittings as indicated on the Contract Drawings.
 - .8 Supply and placement of concrete blocks as shown on Contract Drawings.
 - .9 Supply and placement of rigid insulation.
 - .10 Supply and placement of geotextiles, offtake channels and inlet and outlet treatments and pools as specified on Contract Drawings.
 - .11 Supply and placement of Individual Rock Placements as provided on Contract Drawings.
- .17 Unit Price Items 24B - Section 33 42 13.01 – Precast Concrete Box Culverts – 2400 mm x 1800 mm
- .1 Unit of Measurement: Linear Metre (m) for each size of culvert.
 - .2 Method of Measurement: Along centreline of new culvert pipe, from end to end of culvert, as laid and as accepted by the Departmental Representative.
 - .3 Payment for this item includes:
 - .1 Dewatering of site and temporary water control.
 - .2 Construction staging and sequencing of the works to install new box culverts.
 - .3 Supply and installation of temporary detours and associated traffic control, along with removal of temporary detours upon completion of construction.
 - .4 The removal of existing culverts, headwalls, cut off walls and foundations shall be incidental to the Work.
 - .5 All required excavation including asphalt removal at culvert replacement locations.
 - .6 Excavation of trench, supply and placement of all bedding, and backfill material, and disposal of all old fill and culvert material, as well as any extra excavated material required to install new culvert. If existing fill material to top of subgrade is deemed suitable by the Departmental Representative, it shall be used for backfilling. Unsuitable fill material shall be disposed of, as directed by the Departmental Representative and is considered incidental to this bid item.

- .7 Supply and installation of new precast concrete box culverts, including, headwalls and beveled end sections. Year of fabrication to be embedded in the inlet and outlet end sections as dimensioned on the Contract Drawings.
- .8 Supply and placement of fish baffles as shown on Contract Drawings.
- .9 Supply and installation of the waterproofing membrane system.
- .10 Supply and installation of culvert tension assemblies and fittings as indicated on the Contract Drawings.
- .11 Supply and placement of concrete blocks as shown on Contract Drawings.
- .12 Supply and placement of geotextiles, offtake channels and inlet and outlet treatments and pools as specified on Contract Drawings.
- .13 Stockpiling salvaged streambed material for placement as indicated on Contract Drawings.
- .14 Supply and placement of Individual Rock Placements as provided on Contract Drawings.
- .18 Unit Price Item 25B – Section 34 71 13.25 – Vehicle W-Beam Guide Rail (Weak Post)
 - .1 Unit of Measurement: Linear Metre (m).
 - .2 Method of Measurement: Linear metres of guide rail installed as indicated on the Drawings. The measurement shall be taken along the centre of the guard rail from end to end of each section of guard rail including buried ends, not including overlaps.
 - .3 This item includes: Common excavation and backfill, supply and placing posts and surface reinstatement. Supply and installation of new guard rail, hardware, delineators, accessories, offset blocks, toe spikes, Michigan shoes, channels and hardware of guard rail for bridge approach system, weak post system and any guard rail adjustments as indicated on the Contract Drawings. There shall be no payment for guard rail overlaps.
- .19 Unit Price Item 26B – Section 34 71 43 – Concrete Jersey Barrier – F-shape
 - .1 Unit of Measurement: Each (Ea).
 - .2 This item includes: Supply and installation of new F-shape barrier sections, including tapered end sections, hardware for anchorage, and delineators, as indicated on the Contract Drawings.
 - .3 Removal, delivery and storage of the existing barriers to the Pleasant Bay Salt Storage yard is considered incidental to this bid item.

1.7 ITEMS CONSIDERED INCIDENTAL TO THE WORK

- .1 Incidentals to the Work shall include but are not limited to the following. There shall be no measurement and payment for these items:
 - .1 Access.
 - .2 Barricades.
 - .3 Clean-up.

- .4 Cold weather protection and curing of materials.
- .5 Consumables.
- .6 Design, supply, fabrication, use and removal from site of all temporary works and erection equipment.
- .7 Environmental protection and disposal of hazardous materials.
- .8 Field measurements and sketches.
- .9 Lost time due to weather.
- .10 Obtaining any permits or approvals required.
- .11 Protection of existing structures.
- .12 Protection, relocation, moving, storage and final location of stored equipment.
- .13 Provision of services.
- .14 Reinstatement of damaged surfaces.
- .15 Rental of equipment; products.
- .16 Safety measures, equipment, and training.
- .17 Scaffolding / staging.
- .18 Security.
- .19 Shoring and bracing.
- .20 Any access equipment and time necessary for inspections and testing.
- .21 Snow removal.
- .22 Submissions.
- .23 Surfacing.
- .24 Weigh Scales and Scale person.
- .25 Survey and measurement assistance for Departmental Representative.
- .26 Transportation of equipment.
- .27 Working Drawings.
- .28 All ancillaries required to complete the Work to the full satisfaction of the Departmental Representative.
- .2 The Contractor shall be responsible for all costs should remediation be necessary to return the environment to its original condition.
- .3 The Contractor shall be responsible for the costs of repair. The cost of Quality Assurance will be paid by PCA, with the exception of additional testing required for re-inspection of non-conforming areas; PCA reserves the right to pass this additional cost along to the Contractor.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

.1 Not Used.

END OF SECTION