

**EXHIBIT 2**

**COMPENSATION**

**LABOUR COMPONENT WITH TARGET COST OF LABOUR AND LMAX**

**and**

**FIXED PRICE FOR NON LABOUR COMPONENT**

(As of 29 November 2013 )

**1 GENERAL**

- 1.1 Company shall compensate Contractor for the Work, in accordance with the provisions of this Agreement. The Contract Price, as calculated in Appendix A – Schedule of Price Breakdown, shall consist of:
- the total of the Reimbursable Cost of Labour, subject to a cost sharing adjustment based on a comparison of the total to the Final Adjusted Target Cost of Labour, and subject also to the constraint of a guaranteed maximum (LMAX) for the total of the Reimbursable Cost of Labour; and the Labour Profit; all in accordance with Section 2 of this Exhibit 2;
  - the actual travel costs of trades labour as stipulated in the Collective Agreement between the Muskrat Falls Employer’s Association Inc. and the Resource Development Trades Council of Newfoundland and Labrador (i.e. the “Collective Agreement”); all in accordance with Section 3.1 of this Exhibit 2 (these costs are flow through expenses without mark-up; travel time is not a reimbursable cost as per the Collective Agreement);
  - the fixed lump sum amounts and unit prices as listed in the Non Labour Component of Appendix A - Schedule of Price Breakdown; all in accordance with Section 4 of this Exhibit 2; and
  - any adjustment in compensation pursuant to Article 14 – Changes in the Work, or Section 11 (Escalation for Materials) of this Exhibit 2.
- 1.2 The Contractor commits to use its best efforts to ensure that the total of the Reimbursable Cost of Labour does not exceed the Target Cost of Labour.
- 1.3 The fixed lump sum amounts, and fixed unit prices stated in this Exhibit 2 for the Non Labour Component (excluding Price Item 19A), together with the provisions for reimbursement of the Reimbursable Cost of Labour, Labour Profit and travel costs, shall be all-inclusive to meet all requirements outlined in this Agreement, or reasonably inferred from the nature of the Work.
- 1.4 Consistent with Article 1.4 of the Articles of Agreement, reference in this Exhibit 2 to an Article is a reference to a clause, subclause or subdivision in the Articles of Agreement and reference in this Exhibit 2 to a Section is a reference to a Section of an Exhibit as identified.
- 1.5 Invoices shall be issued by Contractor in accordance with Article 12 – Compensation and Terms of Payment, this Exhibit 2 – Compensation, and Exhibit 3 – Coordination Procedures.
- 1.6 The currency of payment of the Agreement is Canadian dollars (CAD).

**1A LIMITED NOTICE TO PROCEED WITH RESPECT TO THIS AGREEMENT**

- 1A.1 While this Agreement was being finalized, the Parties signed a Limited Notice To Proceed (LNTP) with Amendment No. 1 to permit "Initial Work" as defined in the LNTP to commence. That Limited Notice To Proceed with Amendment No. 1 is recorded in Appendix J to this Exhibit 2.
- 1A.2 The Parties agree that the remuneration paid to the Contractor pursuant to the LNTP with respect to the Initial Work is included in, and forms a part of, the Contract Price pursuant to this Agreement for the Work and will not be an extra above and beyond the Contract Price. Such remuneration shall be credited against the Contract Price following the signing of this Agreement. For greater certainty, the sum of the Contractor's compensation for performing the Initial Work under the LNTP and for performing the Work under this Agreement shall not exceed the Contract Price.
- 1A.3 The amounts paid under the LNTP to be deducted from the Contract Price of this Agreement are recorded in Section 9.2 of this Exhibit 2.

**2 LABOUR COMPONENT**

- 2.1 The provisions of this Section 2 define the total compensation for the Labour Component, including the Reimbursable Cost of Labour, Labour Profit, Cost Sharing in relation to the Target Cost of Labour and LMAX.
- 2.2 **Definitions**
- 2.2.1 "Labour Component" means the Reimbursable Cost of Labour and Labour Profit. For greater certainty, the Labour Component excludes all other costs, including, all overheads, mark-ups including mark-ups by Subcontractors on the cost of Wages and Benefits, travel costs and board associated with the Work, and any costs of head office personnel visiting the Site.
- 2.2.2 "Non Labour Component" means all costs, overhead and profit which are required to perform the Work, excluding the Labour Component and travel costs of trades labour.
- 2.2.3 "Target Cost of Labour" means the Contractor's estimate of the Reimbursable Cost of Labour for the performance of the Work as of the Effective Date, being the summation of the lump sums, and the products of the manpower costs per unit and quantities, for all price items of the Labour Component, as listed in Appendix A - Schedule of Price Breakdown. The lump sums and the unit prices include escalation of the Wages and Benefits.

The Target Cost of Labour includes a reduction as listed under Price Item 391A of Appendix A – Schedule of Price Breakdown. This reduction is subject to the conditions listed in Section 2.8 of this Exhibit 2; and shall only apply if the conditions are met.

- 2.2.4 “Adjusted Target Cost of Labour” means the Target Cost of Labour adjusted for the effect of Change Orders issued by Company after the Effective Date. Adjusted Target Cost of Labour at any time after the Effective Date is the summation of the Target Cost of Labour and the estimated Reimbursable Cost of Labour related to each Change Order issued to that time.
- 2.2.5 “Final Adjusted Target Cost of Labour” means the Adjusted Target Cost of Labour after inclusion of the effect of all Change Orders, and adjusted after Final Completion for the actual quantities installed of each unit price item in Appendix A - Schedule of Price Breakdown.
- 2.2.6 “Reimbursable Cost of Labour” means the Actual Cost of Labour minus Disallowed Items.
- 2.2.7 “Actual Cost of Labour” means actual Wages and Benefits paid by Contractor to Contractor’s Work Force working to perform the Work; plus the government burdens associated with such Wages and Benefits which the Contractor is required to pay for Canada Pension Plan (CPP), Canada Employment Insurance (EI), Newfoundland Health and Post Secondary Education (HAPSET), and Newfoundland Workplace, Health, Safety and Compensation (WHSCC).
- 2.2.8 “Contractor’s Work Force” means
- all Contractor trades labour at Site;
  - Contractor’s management and staff at Site, up to and including the project director;
  - trades labour and staff of Subcontractors (including Subcontractor’s subcontractors of every tier) at Site, who are covered by the Collective Agreement. For greater clarity, with the exception of the Subcontractors who have been specifically named in Appendix F of this Exhibit 2, the cost of management and staff of all remaining Subcontractors (including Subcontractor’s subcontractors of every tier) who are not covered by the Collective Agreement, are included in the Non Labour Component);
  - The three persons working at the Contractor’s Goose Bay office and the four persons working in the Contractor’s St John’s office (these are the only off-Site persons who are included in the Actual Cost of Labour).



- 2.2.9 “Wages and Benefits” means the wages and benefits paid by Contractor to Contractor’s Work Force in accordance with the Collective Agreement. In the case of Contractor’s Work Force not covered by the Collective Agreement, Wages and Benefits means the wages and payroll burden of these personnel as listed in Appendix F – Wages and Benefits of Contractor’s Work Force Not Covered by the Collective Agreement - of this Exhibit 2. In all cases, whether under the Collective Agreement or under Appendix F, Wages and Benefits does not include: 1) any mark-up or profit of any kind, bonuses, incentives or special allowances paid to the Contractor’s Work Force; 2) with the exception of HAPSET, any taxes including tax equalization payments for Contractor’s Work Force.
- 2.2.10 “Disallowed Items” means
- the cost of labour to correct Work which has not been executed in accordance with the Technical Requirements prior to Final Completion;
  - the cost of labour to satisfy Warranty obligations;
  - any labour costs incurred for Contractor’s Work Force off-Site (with the exception of the persons working in the Contractor’s Goose Bay and St. John’s offices as mentioned in Section 2.2.8 of this Exhibit 2);
  - any labour costs incurred by Contractor in the preparation and resolution of a claim: after a Company decision to proceed with a Change Order under Article 14.6; or after a Company decision under Article 14.8 b); or for anything related to Article 31 – Dispute Resolution;
  - any labour costs covered by insurance, or by an equipment service agreement;
  - Labour costs which cannot be reasonably justified from the Contractor’s records.
- 2.2.11 “Labour Profit” means the compensation for profit on the Reimbursable Cost of Labour, calculated in accordance with Section 2.6 of this Exhibit 2.
- 2.2.12 “LMAX” means the maximum value of the Reimbursable Cost of Labour to be compensated by Company as determined pursuant to Section 2.5 of this Exhibit 2. Contractor shall be responsible, and assumes the risk, for the Reimbursable Cost of Labour which exceeds this maximum.
- 2.2.13 “Labour Cost Difference” means the absolute value of the Final Adjusted Target Cost of Labour minus the total of the Reimbursable Cost of Labour.
- 2.2.14 “Collective Agreement” has the meaning ascribed thereto in Section 8 of this Exhibit 2.
- 2.2.15 “Cost Sharing” means the sharing of the Labour Cost Difference by Company and Contractor in accordance with Tables 1 and 2 of Appendix G – Contractor Share of Labour Cost Difference – of this Exhibit 2.

## 2.3 Reimbursable Cost of Labour

- 2.3.1 As full compensation for the Labour Component, and subject to Sections 2.4 to 2.7 of this Exhibit 2, Company will pay Contractor the total of the Reimbursable Cost of Labour, and the Labour Profit.
- 2.3.2 Daily time sheets shall be prepared in triplicate by Contractor showing breakdown of hours in accordance with Company's costing system and listing the names, category and hours worked for each member of Contractor's Work Force, and these shall be submitted daily to Engineer for checking. One copy of these time sheets, when signed by Engineer, shall be retained by Company. The Contractor's monthly billing for the Labour Component shall be substantiated with copies of these approved time sheets.
- 2.3.3 Contractor shall keep proper accounts and records, in such form and with such detail as shall be satisfactory to Company, of the cost to Contractor of the Wages and Benefits of Contractor's Work Force; and such accounts and records shall at all times be open to audit in accordance with Article 16 – Access, Inspection, Testing, Audit. Contractor shall furnish Company or its authorized representative with all such information about the accounts as it or they may require.
- 2.3.4 Contractor shall submit a cost management plan, as required under Section 6 of Exhibit 3 – Coordination Procedures. The plan shall incorporate the requirements of this Section 2.3 and such other elements that may be required by Company to ensure that costs charged to Company are in accordance with this Agreement and have actually been paid by Contractor.

## 2.4 Target Cost of Labour and Cost Sharing

- 2.4.1 As of Effective Date, the Target Cost of Labour is **CAD \$ 507,598,340.87**.
- 2.4.2 An Adjusted Target Cost of Labour shall be calculated with the issue of each Change Order.
- 2.4.3 On issuance of the Final Completion Certificate, the Final Adjusted Target Cost of Labour shall be calculated.
- 2.4.4 If the total of the Reimbursable Cost of Labour as of Final Completion is less than the Final Adjusted Target Cost of Labour, Company will pay Contractor the Contractor's share of the Labour Cost Difference as listed in this Exhibit 2 Appendix G, Table 1. Such sharing and payment shall be paid on issuance of the Final Completion Certificate in accordance with Section 2.7 of this Exhibit 2.

2.4.5 Subject to Section 2.5 of this Exhibit 2, if the total of the Reimbursable Cost of Labour as of Final Completion is greater than the Final Adjusted Target Cost of Labour, Contractor shall credit Company Contractor's share of the Labour Cost Difference listed in Exhibit 2, Appendix G, Table 2. Company will begin making deductions of the credit owing as soon as the cumulative Reimbursable Cost of Labour exceeds the Adjusted Target Cost of Labour, and a reconciliation of final amount to be credited shall be determined on issuance of the Final Completion Certificate, in accordance with Section 2.7 of this Exhibit 2.

## 2.5 **LMAX**

2.5.1 As of Effective Date, LMAX is equal to Target Cost of Labour plus sixty-four Million, three hundred thousand **CAD \$ 571,898,340.87**.

2.5.2 On issuance of the Final Completion Certificate the LMAX shall be adjusted to equal the Final Adjusted Target Cost of Labour plus sixty-four Million, three hundred thousand CAD.

2.5.3 Company shall have no responsibility for the portion of the total value of Reimbursable Cost of Labour which exceeds LMAX as adjusted on Final Completion.

2.5.4 If, at any time, the cumulative value of Reimbursable Cost of Labour exceeds the Adjusted Target Cost of Labour Plus sixty-four million three hundred thousand, the Company shall cease payments for the Reimbursable Cost of Labour. Any further adjustments, calculated in accordance with Section 2.5.2 of this Exhibit 2, shall be determined after issuance of the Final Certificate, as described in Section 2.7.1 of this Exhibit 2.

## 2.6 **Labour Profit**

2.6.1 Labour Profit shall be fixed at seven percent (7%) of the Target Cost of Labour plus seven percent (7%) of the difference between the Final Adjusted Target Cost of Labour and the Target Cost of Labour.

2.6.2 As of Effective Date, the Labour Profit is **CAD \$ 35,531,883.86**,

being seven percent (7%) of **CAD \$ 507,598,340.87**.

2.6.3 Labour Profit, calculated as of Effective Date, shall be paid monthly based on the progress of installation of concrete over the Period of the Agreement; the proportion of labour profit paid each month shall be in the in the same proportion as the total concrete actually installed each month is of the estimated quantity of concrete to be installed as of Effective Date.

2.6.4 On Final Completion, total Labour Profit due under the Agreement shall be calculated as seven percent (7%) of the Final Adjusted Target Cost of Labour. Any unpaid amount, or overpayment, shall be included in the computation under Section 2.7 of this Exhibit 2.

## 2.7 Final Completion

2.7.1 Following issuance of the Final Completion Certificate the Final Adjusted Target Cost of Labour, LMAX based on Final Adjusted Target Cost of Labour, Cost Sharing and Labour Profit shall be calculated, and an adjusting payment or deduction to complete the obligations specified under this Section 2 shall be computed, for inclusion in the balance of the Contract Price as described under Article 25.10.

## 2.8 Reduction in the Target Cost of Labour

2.8.1 Contractor agrees to reduce the amount of the Target Cost of Labour - as recorded under price Item 391A of Appendix A – Schedule of Price Breakdown – by forty (40) million Canadian dollars, subject to Sections 2.8.1 to 2.8.4 of this Exhibit 2. Consistent with this change, the LMAX will be reduced by the same amount (refer to Section 2.5.1 of this Exhibit 2) and the Labour Profit will be reduced by 2.8 million Canadian dollars (refer to Section 2.6.2 of this Exhibit 2). Cost Sharing, as defined in Section 2.2.15 and Appendix G (Tables 1 and 2) of this Exhibit 2, remains unchanged.

2.8.2 Company agrees to contract the work for the Main Dam (i.e. the North RCC dam, the South Rockfill Dam and associated cofferdams) and the North Spur Stabilization Work to Contractor, provided the Parties are able to agree on pricing and schedule for the work.

2.8.3 The Parties agree that they will work together, per dates set by Company, to agree to the price and schedule for construction of the Main Dam and the North Spur Stabilization Work. The Parties will build their joint price estimate and schedule for the Main Dam and the North Spur Stabilization Work using an open book with full transparency on the following principles:

- direct labour required to perform the work will be agreed;
- indirect labour is largely covered under the Agreement for package CH0007;
- equipment for this work is largely covered by the Agreement for package CH0007;
- material will be estimated at actual cost;
- Site overheads are already covered as part of the Agreement for package CH0007;
- Contractor home office overheads are already covered by the Agreement for package CH0007;

- Profit at a fixed percentage;

2.8.4 The Parties agree that if they are not able to achieve agreement on the price or schedule to perform the work for each of the Main Dam and the North Spur Stabilization Work, then the reductions consented by Contractor, as per Section 2.8.1 above, will be revoked and Company will be free to award a contract for this work to contractors of its choice.

### **3 TRAVEL COSTS**

3.1 Travel Allowances - Trades Labour: Company shall pay the actual travel allowances /air transportation of the Contractor's Work Force covered by the Collective Agreement and working at Site. All such travel allowances/air transportation shall be strictly in accordance with the stipulations of the Collective Agreement: arrangements for air transportation must be made at least two weeks in advance; travel time is not reimbursable per the Collective Agreement; and Company shall not pay any mark-up on the travel allowances/cost of air transportation.

3.2 Contractor's Work Force Not Covered by the Collective Agreement: For Contractor's Work Force not covered by the Collective Agreement working at Site or in the Goose Bay and St John's offices, travel costs are included in the Non Labour Component:

- travel costs, including any travel time, to mobilize on commencement of the Work and to demobilize on completion of the Work are included in the lump sums for mobilization and demobilization under price items 1 and 19 respectively in Appendix A - Schedule of Price Breakdown;
- travel costs for rotational leave during the execution of the Work are included in Appendix A - Schedule of Price Breakdown - under price items 6 and 6A, under "Profit and Other".

### **4 LUMP SUMS AND UNIT PRICES FOR THE NON LABOUR COMPONENT**

This Section 4 covers the Non Labour Component of the Contract Price. The lump sums and unit prices of the Non Labour Component of Appendix A – Schedule of Price Breakdown - include for the entire Contract Price, with the exception only of the Labour Component (covered under Section 2 of this Exhibit 2) and travel costs of trades labour (covered under Section 3.1 of this Exhibit 2 and price item 19A of the Schedule of Price Breakdown).

#### 4.1 Fixed Lump Sums

- 4.1.1 The following provisions in this Section 4.1 apply only to Work completed on a lump sum basis.
- 4.1.2 Subject to Section 11 (Escalation For Materials) of this Exhibit 2, all of the lump sum payment items stated in Appendix A – Schedule of Price Breakdown of this Agreement are fixed price and their aggregate total will form the fixed lump sum price portion of the Contract Price.
- 4.1.3 Each lump sum item stated in Appendix A – Schedule of Price Breakdown shall include all elements necessary to achieve completion of the item, whether specifically identified, or whether inherent in the Work.
- 4.1.4 Pursuant to Article 12 – Compensation and Terms of Payment, payment for each lump sum item shall be monthly based on progress as the Contractor has satisfied the requirements of each payment item.
- 4.1.5 Before issuing its first Payment Certificate under the Agreement, the Contractor shall submit to the Engineer a schedule of values of the various parts of the Work totalling the full amount of the fixed lump sum price portion of the Contract Price. The schedule shall be used as a guideline for applications for payment.
- 4.1.6 Measurement of lump sum price items shall be undertaken on a monthly basis by Contractor and Engineer. Progress achieved against each item from the schedule of values, and Accepted by Engineer, shall form the basis of interim measurement for payment of each lump sum item on a Payment Certificate. Only Company Approved lump sum progress payments shall be invoiced by Contractor.

#### 4.2 Fixed Unit Prices

- 4.2.1 The following provisions in this Section 4.2 apply only to Work completed on a unit price basis.
- 4.2.2 The full compensation for unit price Work shall be determined in accordance with the unit prices set forth in Appendix A – Schedule of Price Breakdown.
- 4.2.3 Subject to Section 11 (Escalation For Materials) of this Exhibit 2, all of the unit price payment items stated in Appendix A – Schedule of Price Breakdown - are fixed prices.
- 4.2.4 Each unit price item stated in Appendix A – Schedule of Price Breakdown shall include all elements necessary to achieve completion of the item, whether specifically identified, or whether inherent in the Work.
- 4.2.5 Quantities of units estimated by Company are not guaranteed, as independent circumstances shall control actual quantities performed. Payment for unit price items

shall only be for the actual quantities of Work completed in accordance with the Agreement and not estimated quantities. There will be no adjustment of any unit price due to variances from the estimated quantities (whether increases/decreases).

- 4.2.6 The quantities of unit price items for inclusion on a Payment Certificate shall be determined on a monthly basis by Contractor and Engineer. Such determination shall form the basis for all progress and final payments for unit price Work. Only Company Approved quantities on a Payment Certificate for unit price items shall be invoiced by Contractor.
- 4.2.7 Unless otherwise specifically stated, all unit prices shall be complete and inclusive of all costs required for the Work (including profit).

## **5 REIMBURSABLE CHANGE ORDERS**

- 5.1 The following provisions in this Section 5 apply only to Work resulting from a Change Order which has been determined to be completed on a cost reimbursable basis.
- 5.2 This Section, with the exception of Section 5.3 (a) and 5.3 (b), is to be interpreted in accordance with Articles 14.10 and 14.11.
- 5.3 Full compensation to Contractor for complete performance of any Change Order performed on a reimbursable basis shall be the sum of the following costs and mark-ups:
- (a) the total Reimbursable Cost of Labour for trades labour working directly on the work of the Change Order; the total shall be added to the Adjusted Target Cost of Labour and profit on the labour shall be covered by the calculation for Labour Profit (refer to Section 2.6.4 of this Exhibit 2).
  - (b) a price addition on each of the trades labour hours certified under (a) above of \$2.30 to cover consumables, personal protective equipment and small tools (with a value less than \$2,000 Canadian dollars) as further illustrated in Appendix C.
  - (c) the Sum of Contractor's equipment rates, as detailed in Appendix D – Equipment Rate Schedule - , multiplied by Company Approved hours of use as detailed on timesheets; these rates include for profit and overhead and consequently they shall be treated as meeting the requirements of Article 14.10 (a).
  - (d) Company Approved material expenses, travel and mileage expenses, and third party expenses.

Contractor shall advise Company in writing when it has expended seventy-five percent (75%) of the total estimated price for any item of Change Order Work to be compensated on a reimbursable basis, along with a forecast of the cost to complete the item of Work.

- 5.4 When Contractor is requested to purchase materials on a reimbursable basis:

- (a) All actual costs to Contractor for materials supplied for incorporation into the permanent facility shall be at actual invoiced cost to Contractor (exclusive of tax), including transportation to Site, as substantiated by invoices certified paid or by such documentation as may be required by Company, plus the mark-up as listed in Article 14.10 (b) (i).
- (b) Contractor shall solicit a minimum of three bids for material purchases of \$30,000.00 Canadian and greater.
- (c) Contractor shall supply a copy of supplier's invoice with each Invoice.
- (d) Company reserves the right to provide, at no cost to Contractor, materials, equipment, services, supplies or incidentals required to perform the Work.
- (e) This Section does not include consumables, personal protection equipment, and small tools which cost Contractor less than \$2,000 Canadian dollars; all as illustrated in Appendix C. These are covered under Section 5.3 (b).

5.5 When Contractor is requested to supply equipment on a reimbursable basis:

- (a) All costs of Contractor for Contractor-owned equipment shall be at the rates set forth in Appendix D – Equipment Rate Schedule.
- (b) When Contractor's equipment does not resemble the equipment having rental rates listed in Appendix D – Equipment Rate Schedule – the agreed rental rate shall be incorporated into the Agreement by Change Order prior to rental.
- (c) All costs of Contractor for equipment which is rented from third parties and does not resemble the equipment having rental rates listed in Appendix D – Equipment Rate Schedule – must be Approved by Company in writing prior to rental and shall be at actual cost to Contractor, including transportation to Site, as substantiated by invoices certified paid or by such documentation as may be required by Company plus the mark-up as listed in Article 14.10 (b) (i).
- (d) For reimbursable Work, Company reserves the right to substitute and provide, at no cost to Contractor, equipment to perform the Work. Contractor shall not be allowed to claim for loss of profit and/or any other of its own costs resulting from such substitution by Company.

5.6 When Contractor requires third party services to assist with Work being performed on a reimbursable basis:

- (a) Contractor shall secure Company pre-approval of any third party services, including materials, tools, supplies and consumables, that are required for the performance of the Work and are additional to that which is included in the rates and lump sum prices outlined herein. Company shall reimburse Contractor for the actual, documented and necessary costs of such third party services.



- (b) All third party services provided for performance of the Work which has been previously Approved by Company shall be at actual cost to Contractor of such third party service provided by others plus the mark-up as listed in Article 14.10 (b) (i).
  - (c) In no instance shall the third party rates plus mark-up exceed Contractor's rates for similar work or equipment.
  - (d) To be eligible for reimbursement, invoicing for third party services shall be fully supported by Billing Information and any other documentation that Engineer may reasonably require.
- 5.7 Trades travel costs, to and from the Site, will be compensated per the Project Labour Agreement as a pass through expense without any mark-up.
- 5.8 For all Work carried out on a reimbursable basis, Contractor shall prepare time sheets for all personnel, equipment, material and third party services assigned to the performance of the Work which will be reviewed and signed daily by the Engineer . Copies of time sheets shall accompany all Contractor invoices.
- 5.9 When Contractor uses assets of an associated company (such as common ownership, subsidiary, strategic partner, licensee ) to undertake reimbursable Work then only one (1) mark-up shall be allowed on the actual associated company base cost for the Work.
- 5.10 The mark-ups referenced in Sections 5.4, 5.5 and 5.6 of this Exhibit 2 take into account that allowances have already been made in the indirect costs (Price Items 1 to 19) for overheads on Change Orders. Refer to Section 9.3 of this Exhibit 2.
- 5.11 For greater certainty, extra work added as a result of the understanding recorded in Section 2.8 of this Exhibit 2, will not be counted in the cumulative value of Change Orders issued, as mentioned above.
- 5.12 Contractor shall include requests for compensation for Work performed on a reimbursable basis on the Payment Certificate applicable to the time period in which the reimbursable Work was performed.

## **6 CHANGES**

- 6.1 Changes shall be evaluated and agreed by the Parties on the basis of a reasonable estimate of the Reimbursable Cost of Labour for the Change, and a fixed price adjustment to the Non Labour Component. Prices listed in Appendix A – Schedule of Price Breakdown - shall be used wherever they are applicable. Profit for the labour portion of the Change will be covered by the calculation for Labour Profit. Profit on the Non Labour Component will be included in the fixed price.
- 6.2 Each Change Order issued shall record the estimate of the Reimbursable Cost of Labour for the Change, the fixed price for the Non Labour Component for the Change, and the Adjusted Target Cost of Labour as of that Change Order.
- 6.3 In the event the parties cannot agree on overall cost for a Change, Company may direct the Contractor to complete the Work on a cost reimbursable basis as specified in Section 5 of this Exhibit 2, or to proceed with the work and continue to negotiate the value of the Change Order, subject to Article 31, at the discretion of Company.

## **7 STANDBY TIME**

- 7.1 When the Work is suspended by Company for a reason that is not related to the Contractor's performance of the Work, the Company may compensate the Contractor for standby costs which are reasonably incurred by the Contractor. For all standby time Approved by Company, Contractor shall prepare daily time sheets for all labour and equipment assigned to the performance of the Work, which will be reviewed, and if accepted, signed by the Engineer. Copies of time sheets shall accompany all Contractor invoices. Rates outlined in Appendix D – Equipment Standby Rate Schedule shall apply when Contractor submits an invoice for payment of equipment standby costs. Payment for such standby will be limited to not more than eight (8) hours in a twenty-four (24) hour day or forty (40) hours in a week.
- 7.2 No compensation will be allowed for equipment that is inoperable due to breakdown, unavailability, or the like. No payment will be allowed for equipment that is not operating because the work has been suspended in accordance with the Articles of the Agreement or because the work has been suspended by the Contractor for its own reasons.
- 7.3 When Company agrees that standby costs should be compensated these shall be approved under a Change Order and the standby cost of labour shall be recorded as an adjustment to the Target Cost of Labour.

## 8 PROJECT LABOUR AGREEMENT

- 8.1 This Agreement is based on Newfoundland and Labrador Regulation 67/13 - a Special Project Order under the Labour Relations Act of Newfoundland and Labrador - , and the associated Project Labour Agreement (PLA) which has been negotiated for the Lower Churchill Project.
- 8.2 In this Agreement, "Project Labour Agreement" means the "Collective Agreement between Muskrat Falls Employer's Association Inc. and Resource Development Trades Council of Newfoundland and Labrador" (also called the "Collective Agreement"). Any reference to the Collective Agreement is a reference to the Project Labour Agreement.
- 8.3 The Contractor shall be bound to the terms of the PLA, become a member of the Project Employers' Association and name at least one (1) staff person to be responsible for daily labour relations matters at the Site. Prior to working at Site, all Contractor's Personnel will be required to attend an LCP Site orientation session that includes health, safety and environment obligations; human resources policies, including respectful workplace, cultural sensitivity, gender equity and diversity; and labour relations, including PLA overview, site standards, corrective action and dispute resolution.

## 9 COMPENSATION

- 9.1 Pursuant to Article 12.3, Contractor shall invoice each month: for the Reimbursable Cost of Labour and the actual travel costs of trades labour incurred in that month; for the pro-rated portion of Labour Profit; and for the actual progress on the Non labour Component for the month. Contractor shall be paid the costs incurred and monthly progress following Approval by Company of a Payment Certificate and in accordance with the provisions of Article 12 – Compensation and Terms of Payment. Payment of the Reimbursable Cost of Labour is subject to Sections 2.3 to 2.5 and 2.7 of this Exhibit 2.
- 9.2 Pursuant to Section 1A of this Exhibit 2 and Appendix J to this Exhibit 2, the following disbursements made under the LNTP are to be credited to Company in accordance with Article 12.15 (c) of the Agreement:

***(Insert a list of payments made under the LNTP)***

- 9.3 If the cumulative value of all Change Orders Approved plus variances (as mentioned in Section 4.2.5 of this Exhibit 2) exceeds seventeen and one half percent (17.5%) of the Contract Price as of Effective Date (excluding travel costs), the Parties shall analyse and agree the impact of the excess above seventeen and one half percent on the indirect costs (Price Items 1 to 19).

## 10 ADVANCE PAYMENT

- 10.1 Company will make an advance payment to Contractor in the amount of one hundred and two million, four hundred and twenty-nine thousand, two hundred and fifty-five Canadian dollars (**\$CAD 102,429,255.00** ), representing ten percent (10%) of the Contract Price as of Effective Date. The advance payment will be delivered by Company to Contractor within thirty (30) Business Days of receipt of an irrevocable Letter of Credit and invoice from Contractor, for the same amount. The letter of credit shall be in the format provided for the advance payment letter of credit in Exhibit 14 – Performance Security.
- 10.2 The bank issuing the Letter of Credit must be listed in Schedule I of the Bank Act (Canada), S.C. 1991, c.46, as amended or replaced from time to time, and the bank must have and maintain a senior, unsecured long-term credit rating of not less than A- or equivalent from any one of Standard & Poor's, or Fitch, or not less than A3 or equivalent from Moody's. In addition, the bank issuing the letter of credit must be acceptable to Company.
- 10.3 Contractor shall reimburse Company the full amount of the advance payment through deductions from each invoice Approved by Company. The first deduction shall be made after the cumulative invoices for the Work have reached twenty percent (20%) of the Contract Price (calculated as of Effective Date). The first deduction, and each successive deduction thereafter, shall be at the rate of fifteen percent (15%) of the value of the invoice Approved by Company, until the full amount of the advance payment has been reimbursed.
- 10.4 In the event that this Agreement is terminated for any reason in accordance with the terms of this Agreement prior to reimbursement of the advance payment pursuant to Section 10.3 herein, the outstanding balance of the advance payment shall become immediately payable by Contractor to Company.

## 11 ESCALATION FOR MATERIALS

The Contract Price, as of the Effective Date, shall be subject to escalation as follows:

### 11.1 General

- (a) "**Escalation**" means the amount by which the Contract Price will be adjusted for the variations in the cost of cement, rebar, structural steel and fuel. Escalation for the cost of labour has already been included in the pricing.

(b) Escalation Period:

Escalation will be calculated for each quarter of the calendar year (e.g. Jan. to March; April to June), hereinafter referred to as "**Escalation Period**". With the exception of cement, the first such Escalation Period shall be the calendar

quarter starting after the Effective Date of Agreement. In the case of cement, the first such Escalation Period shall be the calendar quarter January to March 2015.

(c) Indexes:

“**Index**” means the defined indicator to be used to calculate the Escalation.

The Indexes to be used for each of the designated commodities, shall be as specified in Section 11.2 of this Exhibit 2.

(d) Index Numbers:

“**Index Numbers**” shall mean one or both, as the context requires, of the following defined terms:

- With the exception of cement, the “**Base Index Number**” used to calculate Escalation for an Index shall be the final published index number for the given Index for the month of July 2013. In the case of cement the **Base Index Number** shall be the average of the final published index numbers for the given Index for the 12 months of 2014.
- The “**Actual Cost Index Number**” used to calculate escalation for an Index shall be the average of the final published numbers applicable to each month of the Escalation Period.

## 11.2 Escalation Calculation for Materials

### 11.2.1 Escalation of Cement, Rebar and Structural Steel

Escalation for cement, rebar and structural steel shall be calculated for a particular Escalation Period using the following formula and the quarterly cost of the commodity for the particular Escalation Period, as declared in Table 1 of Appendix E of this Exhibit 2.

$$EL_{CRS} = e \times [(C_a - C_b)/C_b] + f \times [(S_a - S_b)/S_b] + g \times [(R_a - R_b)/R_b]$$

In which:

$EL_{CRS}$  = Escalation for cement, structural steel and rebar, calculated for the particular Escalation Period.

e = cost of cement to be purchased in the particular Escalation Period, as listed in Table 1 of Appendix E.

C = Index for cement (Statistics Canada, Consumer Price Index for Newfoundland – special aggregates, all items excluding energy),

where:

- $C_a$  = Actual Cost Index Number of cement
- $C_b$  = Base Index Number of cement

f = cost of structural steel to be purchased in the particular Escalation Period, as listed in Table 1 of Appendix E.

S = Index for structural steel (Statistics Canada, v53433892),  
 where:

- $S_a$  = Actual Cost Index Number of structural steel
- $S_b$  = Base Index Number of structural steel

g = cost of rebar to be purchased in the particular Escalation Period as listed in Table 1 of Appendix E.

R = Index for rebar (Statistics Canada, V53433771),  
 where:

- $R_a$  = Actual Cost Index Number for rebar
- $R_b$  = Base Index Number for rebar

### 11.2.2 Escalation of Cost of Fuel

Escalation for fuel shall be calculated using the following formula.

$$EL_F = [H - (h \times P_b)]$$

In which:

$EL_F$  = Escalation for fuel, calculated for the particular Escalation Period.

H = Actual cost of the fuel purchased at the Company fuel station at Company's laydown area during the particular Escalation Period.

h = actual number of litres of fuel purchased at the Company fuel station during the particular Escalation Period.

$P_b$  = Base Index Number for fuel = \$CAD 1.40/litre.

### 11.3 Payment of Quarterly Escalation

Escalation ( $EL_{CRS} + EL_F$ ), whether an increase or a decrease, for a given Escalation Period shall be invoiced in the second month following the end of the Escalation Period; or the month at which all Index Numbers are available, whichever is later.

### 11.4 Escalation shall not apply after the Milestone Date for Substantial Completion.

**12 MONTHLY PAYMENT FORECAST SCHEDULE**

12.1 Appendix B of this Exhibit 2 includes the Monthly Payment Forecast Schedule. The Schedule is meant as a forecast only. Company will pay the Contractor monthly for actual costs incurred and progress achieved. Contractor shall update the Monthly Payment Forecast Schedule as required, to keep it current.

**13 LIQUIDATED DAMAGES FOR DELAY**

13.1 Contractor is responsible to achieve completion of all Milestones in accordance with the Interface and Milestone Schedule and Company has made a genuine pre-estimate of damages that it would suffer (liquidated damages) if the Milestone Dates are not achieved. For each Milestone listed below, if Contractor fails to achieve the Milestone by the associated Milestone Date, Contractor shall pay Company, as liquidated damages and not as a penalty, the amount listed for each and every calendar day by which the completion of such Milestone is delayed.

<u>Milestone No.</u>	<u>Milestone</u>	<u>Liquidated Damages per calendar day of delay</u>
M2	Substantial Completion of the Work.	\$20,000
	<b>Spillway, North Transition Dam, Separation Wall</b>	
M4A	Spillway and Related Works required for Company’s Supply and Installation of Hydro Mechanical Equipment Contractor (CH0032) for Upstream Guides installation and concreting, including: <ul style="list-style-type: none"> <li>- Completion of Spillway Invert;</li> <li>- Completion of Spillway piers and walls (upstream 2/3 portion only), including Upstream Bridge;</li> <li>- Spillway Upstream Channel free for Company’s Other Contractor (CH0032) occupation.</li> </ul> (Refer to sketch attached to Exhibit 9)	\$45,000.00

<u>Milestone No.</u>	<u>Milestone</u>	<u>Liquidated Damages per calendar day of delay</u>
M4B	Spillway and related works required for Company's Other Contractor (CH0032) installation of Downstream Stoplog Guides, Gates and Hoists as well as for Company's Construction of North and South Dams Contractor (CH0009) for construction of Intake Channel Upstream Cofferdam and Spillway Upstream Channel Temporary Bridges, and all works required for diversion including: <ul style="list-style-type: none"> <li>- Completion of Spillway piers and walls (downstream 1/3 remaining portion), including both Downstream Bridges;</li> <li>- Completion of North Transition Dam;</li> <li>- Completion of Northern 2 monoliths of Center Transition Dam including the Electrical Building Platform;</li> <li>- Completion of Spillway Discharge Channel Phase 1;</li> <li>- Completion of Separation Wall;</li> <li>- Spillway Discharge Channel free for Company's Other Contractor (CH0032) occupation;</li> </ul> (Refer to sketch attached to Exhibit 9)	\$50,000.00
	<b>Powerhouse, Draft Tube Cone</b>	
M22	Unit 1 – Ready for Installation of Draft Tube Cone by Company's Supply and Installation of Turbines and Generators Contractor (CH0030).	\$25,000.00
M30	Unit 2 – Ready for Installation of Draft Tube Cone by Company Other Contractor (CH0030).	\$25,000.00
M38	Unit 3 – Ready for Installation of Draft Tube Cone by Company's Other Contractor (CH0030).	\$25,000.00
M46	Unit 4 – Ready for Installation of Draft Tube Cone by Company's Other Contractor (CH0030).	\$25,000.00
	<b>Powerhouse, Generator Floor Completed</b>	
M24	Unit 1 – Generator Floor Completed, including Pit Free for Unit 1.	\$40,000.00
M32	Unit 2 – Generator Floor Completed, including Pit Free for unit 2	\$20,000.00
M40	Unit 3 – Generator Floor Completed, including Pit Free for Unit 3	\$20,000.00
M48	Unit 4 – Generator Floor Completed, including Pit Free for Unit 4.	\$20,000.00



<u>Milestone No.</u>	<u>Milestone</u>	<u>Liquidated Damages per calendar day of delay</u>
	<b>Service Bays</b>	
M18	South Service Bay Enclosed and High Bay Lighting Installed and Ready for Start of Work by Company's Other Contractors. This includes: <ul style="list-style-type: none"> <li>- South Service Bay Mezzanines, Ready for Start of Work by Company's other Contractors.</li> <li>- South Service Bay Structural Steel Ready for Setting Powerhouse Crane on Rails.</li> <li>- Service Bay Draft Tube Gallery, Ready for Installation of Gantry Crane by Company's Other Contractor (CH0032).</li> </ul>	\$5,000.00
M53	North Service Bay Building Enclosed and High Bay Lighting Installed and Ready for Start of Work by Company's Other Contractors.	\$5,000.00
	<b>Powerhouse, Draft Tube Structure</b>	
M26	Unit 1 – Building Enclosed and High Bay Lighting Installed and Ready for Start of Work by Company's Other Contractors, including: <ul style="list-style-type: none"> <li>- Unit 1 – Draft Tube, Structure Complete for start of Hydro-Mechanical works by Company's Other Contractor (CH0032).</li> <li>- Unit 1 – Mezzanines, Ready for start of Work by Company's Supply and Installation of Mechanical and Electrical Auxiliaries Contractor (CH0031).</li> </ul>	\$5,000.00
M34	Unit 2 - Building Enclosed and High Bay Lighting Installed and Ready for Start of Work by Company's Other Contractors, including: <ul style="list-style-type: none"> <li>- Unit 2 – Draft Tube, Structure Complete for start of hydro-mechanical works by Company's Other Contractor (CH0032).</li> <li>- Unit 2 – Mezzanines, Ready for start of Work by Company's Other Contractor (CH0031).</li> </ul>	\$5,000.00

<u>Milestone No.</u>	<u>Milestone</u>	<u>Liquidated Damages per calendar day of delay</u>
M42	Unit 3 - Building Enclosed and High Bay Lighting Installed and Ready for Start of Work by Company's Other Contractors, including - Unit 3 - Draft Tube, Structure Complete for start of hydro-mechanical works by Company's Other Contractor (CH0032). - Unit 3 – Mezzanines, Ready for start of Work by Company's Other Contractor (CH0031).	\$5,000.00
M50	Unit 4 - Building Enclosed and High Bay Lighting Installed and Ready for Start of Work by Company's Other Contractors, including - Unit 4 – Draft Tube, Structure Complete for start of hydro-mechanical works by Company's Other Contractor (CH0032). - Unit 4 – Mezzanines, Ready for start of Work by Company's Other Contractor (CH0031).	\$5,000.00
	<b>Powerhouse, Intake Structure</b>	
M28	Unit 1 – Intake Structure Complete and Ready for start of hydro-mechanical works by Company's Other Contractor (CH0032).	\$5,000.00
M36	Unit 2 – Intake Structure Complete and Ready for start of hydro-mechanical works by Company's Other Contractor (CH0032).	\$5,000.00
M44	Unit 3 – Intake Structure Complete and Ready for start of hydro-mechanical works by Company's Other Contractor (CH0032).	\$5,000.00
M52	Unit 4 – Intake Structure Complete and Ready for start of hydro-mechanical works by Company's Other Contractor (CH0032).	\$5,000.00
	<b>Center and South Transition Dam</b>	
M54	Center Transition Dam complete including Trashrack cleaner rails installed.	\$5,000.00
M55	South Transition Dam Complete	\$5,000.00

<u>Milestone No.</u>	<u>Milestone</u>	<u>Liquidated Damages per calendar day of delay</u>
	<b>Rollways</b>	
M12	Bay No. 1 Rollway Construction Complete and Ready for start of hydro-mechanical works by Company's Other Contractor (CH0032).	\$5,000.00
M13	Bay No. 2 & 4 Rollway Construction Complete and Ready for start of hydro-mechanical works by Company's Other Contractor (CH0032).	\$5,000.00
M14	Bay No.3 & 5 Rollway Construction Complete and Ready for start of hydro-mechanical works by Company's Other Contractor (CH0032).	\$5,000.00
M16A/M2A	Completion of Phase 2 of Spillway Discharge Channel Lining and Final Completion of the Work	\$5,000.00

13.2 The period of delay for a Milestone shall exclude each day of extension of time to the Milestone Date granted by Company in accordance with Article 14 – Changes in the Work.

**14 LIQUIDATED DAMAGES FOR KEY PERSONNEL**

14.1 Contractor shall not remove any Key Personnel (as listed below or any Approved successors) from the Work without first obtaining Approval from Company. Such Approval shall be at Company's sole and absolute discretion and provided that Contractor has satisfied the following conditions:

- (a) requesting Approval by Company at least 60 days in advance of the date of the proposed removal of individual Key Personnel;
- (b) providing curricula vitae for replacement candidates, who must have qualifications and experience at least equivalent to those of the Key Personnel Contractor proposes to replace;
- (c) arranging a minimum 14 day hand-over period between Key Personnel to be replaced and the Company accepted replacements; and
- (d) accepting that all costs associated with reassignments initiated by Contractor, including mobilization and demobilization, to replace Key Personnel shall be at the sole expense of Contractor if Key Personnel are removed before the projected end date for Key Personnel.

14.2 Contractor shall pay Company liquidated damages of one million Canadian dollars (\$1,000,000) per instance if Contractor replaces Key Personnel without following the requirements in Section 14.1. Such amount is agreed as a genuine pre-estimate of the disruptive effect on the Work due to Contractor’s unauthorized withdrawal of individual Key Personnel. This provision shall not limit Company’s other rights under the Agreement in the event of recurrent unauthorized withdrawal of Key Personnel by Contractor.

<b>Key Personnel Position Description</b>	<b>Name of Key Person</b>	<b>Liquidated Damages \$</b>
Project Director	Guido Venturini	\$1,000,000
Project Manager	Ken Chryssolor	\$1,000,000
Construction Manager	Vittorio Robiati	\$1,000,000
Planner	Pierre Cianni	\$1,000,000
General Superintendent	Marvin Bennett	\$1,000,000
General Superintendent	Yves Gagnon	\$1,000,000
Formwork Superintendent	Yves Gauthier	\$1,000,000

**EXHIBIT 2 - APPENDIX A**

**SCHEDULE OF PRICE BREAKDOWN**

Exhibit 2 - Appendix A –Option 2 - FPTCL  
 Schedule of Price Breakdown  
 Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN							EXHIBIT 2 - APPENDIX A			
				ISSUED FOR: AGREEMENT DATE: 28-OCT-2013							505573-CH0007-51AF-I-2111 Rev. 10T			
				CONTRACTOR'S NAME: ASTALDI CANADA INC.										
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY OF UNITS A	MAN HOURS (AT SITE) per UNIT	MANPOWER COST/UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=(AxB)	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G= (D+E+F)	TOTAL PRICE (\$ CAD) H= A x G
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE											
<b>2 0000 INDIRECT COSTS</b>														
1	2.1	0000.01		Mobilization	LS	1	0	0	0	0	326,400	8,000,592	8,326,992	8,326,992
2	2.2	0000.02		Site Installation	LS	1	71,519	5,668,063	5,668,063	3,969,685	15,846,507	20,028,886	20,028,886	20,028,886
3	2.3	0000.03		Contractor Equipment for Indirects	LS	1	164,938	13,197,861	13,197,861	6,100,405	4,204,459	2,342,450	12,647,314	12,647,314
4	2.4	0000.04		Temporary Works	LS	1	40,873	3,246,714	3,246,714	710,139	283,000	1,065,868	1,065,868	1,065,868
5	2.5	0000.05		Winter Protection	LS	1	68,850	5,531,277	5,531,277	15,981,361	663,939	1,165,171	17,810,471	17,810,471
6	2.6	0000.06		Management and Staff	LS	1	1,982,044	172,483,726	172,483,726	0	0	10,263,111	10,263,111	10,263,111
6A	2.6A	0000.06A		Design and Technical Assistance	LS	1	131,000	10,508,344	10,508,344	0	0	1,334,825	1,334,825	1,334,825
7	2.7	0000.07		Attendant labour	LS	1	736,610	58,375,032	58,375,032	0	0	0	0	0
8	2.8	0000.08		Services	LS	1	50,821	3,960,856	3,960,856	7,631,783	370,697	7,360,807	15,363,286	15,363,286
9	2.9	0000.09		Employee Training	LS	1	31,450	2,420,324	2,420,324	0	0	0	0	0
10	2.10	0000.10		Health and Safety Requirements	LS	1	116,000	8,845,020	8,845,020	0	0	2,732,513	2,732,513	2,732,513
11	2.11	0000.11		Environmental Requirements	LS	1	32,400	2,556,203	2,556,203	0	0	24,075	24,075	24,075
12	2.12	0000.12		Quality Assurance / Quality Control	LS	1	175,800	13,799,281	13,799,281	0	0	0	0	0
13	2.13	0000.13		Letters of Credit	LS	1	NA	NA	NA	NA	NA	31,723,429	31,723,429	31,723,429
14	2.14	0000.14		Parent Guarantee	LS	1	NA	NA	NA	NA	NA	0	0	0
15	2.15	0000.15		Contractor Insurance, per Article 18 of the Agreement	LS	1	NA	NA	NA	NA	NA	5,576,498	5,576,498	5,576,498
16	2.16	0000.16		Warranty, per Article 17 of the Agreement	LS	1	NA	NA	NA	NA	NA	2,235,825	2,235,825	2,235,825
17	2.17	0000.17		Site Maintenance	LS	1	86,693	6,970,927	6,970,927	3,898,037	920,111	924,968	5,743,115	5,743,115
17A	2.17A	0000.17A		Maintenance Grade No. 3 Material	m³	7,200	0.270	21.68	156,110	6.58	8.21	1.04	15.82	113,934
17B	2.17B	0000.17B		Coarse Sand	m³	2,900	0.282	22.67	65,734	6.87	1.08	1.54	47,972	
17C	2.17C	0000.17C		Calcium Chloride (20 kg bag)	each	12,500	-	0.00	-	15.00	-	1.05	16.05	200,625
18	2.18	0000.18		Financing, Contingency, Head Office Overheads, & Consultant Fees	LS	1	NA	NA	NA	NA	NA	55,358,052	55,358,052	55,358,052
19	2.19	0000.19		Demobilization	LS	1	NA	0.00	0.00	0.00	0.00	6,480,990	6,480,990	6,480,990
19A	2.19A	0000.19A		Estimate of Travel Allowances - Trades Labour	NA	NA	NA	NA	NA	NA	NA	0.00	0.00	0.00
<b>SUB-TOTAL INDIRECT COSTS</b>														
<b>\$ 307,785,475</b>														
<b>3 0000 GENERAL</b>														
<b>3.1 1110 ACCESS ROADS TO SPILLWAY, ACCESS RAMPS AND PADS FOR COMPANY'S OTHER CONTRACTORS</b>														
20	3.1.1	1110.01		Overburden Excavation	m³	6,400	0.107	8.48	54,265.60	2.219	1.37	0.25	3.84	24,563.78
21	3.1.2	1110.02		Zone 3C Material	m³	3,960	0.220	17.46	69,153.48	4.34	3.01	0.51	7.86	31,126.47
22	3.1.3	1110.03		Zone 3D Material	m³	8,360	0.220	17.46	145,990.68	4.34	3.01	0.51	7.86	65,711.44
23	3.1.4	1110.04		Granular "B" Material	m³	1,250	0.393	31.56	39,451.25	8.77	9.18	1.26	19.21	24,006.79
24	3.1.5	1110.05		Granular "C" Material	m³	1,250	0.393	31.56	39,451.25	8.77	9.18	1.26	19.21	24,006.79
25	3.1.6	1110.06		Concrete Culvert 600 mm	m	45	0.167	13.47	606.33	5.13	4.56	0.68	10.37	466.57
<b>3.2 1120 DEWATERING OF STRUCTURE AREAS</b>														
26	3.2.1	1120.01		Structure Areas	LS	1	10,862,527	866,271.09	866,271.09	190,418.49	584,916.66	54,273.46	829,608.61	829,608.61
<b>3.3 1150 TEMPORARY BRIDGE</b>														
27	3.3.1	1150.01		Temporary Downstream Bridge over the Spillway	LS	1	7,952,611	598,480.18	598,480.18	737,089.48	20,082.11	73,867.01	831,038.60	831,038.60
<b>3.4 1170 CONSTRUCTION CRANE</b>														
28	3.4.1	1170.01		Powerhouse – Construction Crane	LS	1	9,936,300	816,282.58	816,282.58	78,034.62	497,510.63	67,038.17	642,583.41	642,583.41
<b>3.5 1180 Temporary Heating, Ventilating and Lighting of Powerhouse</b>														
29	3.5.1	1180.01		Temporary Heating, Ventilating and Lighting of Powerhouse	LS	1	1,800,988	141,040.89	141,040.89	3,541,374.83	920,870.80	312,357.19	4,774,602.82	4,774,602.82
<b>3.6 1190 Chain Link Fences and Gates</b>														
30	3.6.1	1190.01		Chain Link fences and gates in the Powerhouse Parking and Contractor's Laydown Areas	m	50	1,300	100.98	5,049.00	157.60	1.01	11.10	169.71	8,485.37
<b>3.7 1200 Temporary Lateral Support and Bracings</b>														
31	3.7.1	1200.01		Temporary Lateral Support and Bracings for Piers of the Spillway	LS	1	290,210	23,432.79	23,432.79	49,229.39	2,490.79	3,620.41	55,340.59	55,340.59
<b>3.8 1210 Anchor Points</b>														
32	3.8.1	1210.01		Anchor Points at Powerhouse and Spillway	each	50	7,453	601.77	30,088.35	110.76	63.97	12.23	186.96	9,348.00
<b>SUB-TOTAL GENERAL</b>														
<b>\$ 2,829,563</b>														
<b>4 2360 TRANSITION DAMS</b>														
<b>4.1 2361 NORTH TRANSITION DAM</b>														
<b>CIVIL WORK</b>														
<b>Excavation</b>														
33	4.1.1	2361.01		Fill Excavation (Sand Layer for Winter Protection)	m³	650	0.339	27.20	17,678.70	7.52	7.67	1.06	16.26	10,568.12
<b>Foundation Preparation</b>														
34	4.1.2	2361.02		Dental Excavation	m³	30	0.277	22.31	669.18	7.47	2.62	0.71	10.80	323.89
35	4.1.3	2361.03		Scaling and Water/Air Jet Cleaning of Bedrock	m³	430	0.124	9.85	4,236.79	0.72	0.45	0.08	1.24	533.72
36	4.1.4	2361.04		Dental Concrete	m³	70	1.846	145.44	10,180.45	158.80	28.11	13.08	199.99	13,999.56
37	4.1.5	2361.05		Dry Pack	m³	3	1.963	153.66	460.98	251.32	31.22	19.78	302.32	906.97
<b>Drilling, Pressure Grouting and Drainage</b>														
38	4.1.6	2361.06		Grouting Holes	m	200	0.889	72.56	14,512.60	37.13	118.99	10.93	167.05	33,409.04
39	4.1.7	2361.07		Grouting - Successful Connections	each	40	3.375	275.50	11,019.92	109.47	480.84	41.32	631.63	25,265.35
40	4.1.8	2361.08		Dry Cement for Grouting	kg	7,000	0.045	3.67	25,711.00	1.09	1.50	0.18	2.77	19,406.59
41	4.1.9	2361.09		Water Pressure Tests (Lugeon)	hour	4	10,060	821.20	3,284.79	29.00	565.50	41.62	636.12	2,544.46
42	4.1.10	2361.10		Water Pressure Tests - Successful Connections	each	10	1,450	118.36	1,183.64	120.00	57.00	12.39	189.39	1,893.90
43	4.1.11	2361.11		Uplift Gauges	m	25	1,060	86.53	2,163.20	180.00	30.00	14.70	224.70	5,617.50
44	4.1.12	2361.12		Thermistors	each	1	22,940	1,872.59	1,872.59	3,960.00	650.00	318.50	4,868.50	4,868.50
45	4.1.13	2361.13		Rotary/Perussion Drill Check Holes	m	25	0.690	56.33	1,408.13	117.00	19.50	9.56	146.06	3,651.38
46	4.1.14	2361.14		Cored (Diamond drill) holes	m	25	2,680	218.77	5,469.20	390.00	32.50	29.58	452.08	11,301.88
47	4.1.15	2361.15		Drainage Holes	m	65	0.740	60.41	3,926.39	108.00	9.00	8.19	125.19	8,137.35
48	4.1.16	2361.16		PVC Caps for Drainage Holes	each	5	0.820	66.94	334.69	150.00	30.00	12.60	192.60	963.00
49	4.1.17	2361.17		Survey Monuments	each	1	1,810	147.75	147.75	331.00	66.00	27.79	424.79	424.79

Exhibit 2 - Appendix A –Option 2 - FPTCL  
 Schedule of Price Breakdown  
 Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN								EXHIBIT 2 - APPENDIX A			
				ISSUED FOR: AGREEMENT		DATE: 28-OCT-2013		CONTRACTOR'S NAME: ASTALDI CANADA INC.				505573-CH0007-51AF-I-2111		Rev. 10T	
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY OF UNITS A	MAN HOURS (AT SITE) per UNIT	LABOUR COMPONENT			NON LABOUR COMPONENT				
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE					MANPOWER COST/UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=(AxB)	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G=(D+E+F)	UNIT PRICE (\$ CAD) G=(D+E+F)	UNIT PRICE (\$ CAD) G=(D+E+F)
<b>CONCRETE WORK</b>															
50	4.1.18		2361.18	Concrete	m³	9,130	3.898	296.56	2,707,565.41	158.61	53.10	14.82	226.53	2,068,196.62	
50A	4.1.18A		2361.19	PVC Waterstop - TYPE A (150 mm width)	m	30	0.267	21.14	694.17	11.02	0.13	0.78	11.93	357.88	
51	4.1.19		2361.20	PVC Waterstop - TYPE B (225 mm width)	m	315	0.267	21.14	6,658.79	17.94	0.13	1.26	19.33	6,089.82	
52	4.1.20		2361.21	Hydrophilic Waterstop	m	22	0.267	21.14	465.06	21.48	0.13	1.51	23.12	508.68	
53	4.1.21		2361.22	Bituminous Coating at Contraction Joints	m²	570	0.528	39.37	22,441.47	14.67	0.13	1.04	15.84	9,028.96	
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>															
54	4.1.22		2361.23	Reinforcement including Dowels	kg	55,000	0.021	1.56	85,855.00	1.38	0.07	0.10	1.55	85,332.50	
<b>STRUCTURAL STEEL AND MISCELLANEOUS METAL</b>															
<b>Supply and Installation of Non Embedded Miscellaneous Metal</b>															
55	4.1.23		2361.24	Galvanized Miscellaneous Steel	kg	10,600	0.040	3.24	34,312.20	8.62	0.34	0.63	9.58	101,590.29	
56	4.1.24		2361.25	Galvanized Grating	kg	5,100	0.029	2.38	12,122.70	10.29	0.25	0.74	11.27	57,494.95	
<b>Embedded Miscellaneous Metals</b>															
57	4.1.25		2361.26	Embedded Miscellaneous Steel (Frames, L Shapes, Sleeves, etc.)	kg	190	0.059	4.74	900.98	8.93	0.49	0.66	10.08	1,914.68	
58	4.1.26		2361.27	Anchor Bolts Grade 55 ASTM F1554	kg	535	0.059	4.74	2,536.97	2.60	0.49	0.22	3.31	1,771.73	
<b>ELECTRICAL WORK</b>															
59	4.1.27		2361.28	Exothermic Connections	each	30	2.400	234.24	7,027.20	146.48	0.00	10.25	156.74	4,702.10	
59A	4.1.27A		2361.29	Mechanical Connections	each	4	2.300	224.48	897.92	211.64	0.00	14.81	226.46	905.83	
60	4.1.28		2361.30	Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 500 kcmil	m	200	0.414	40.42	8,083.20	60.28	0.00	4.22	64.50	12,899.71	
61	4.1.29		2361.31	Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 4/0 AWG	m	30	0.224	21.88	656.40	27.71	0.00	1.94	29.65	889.56	
61A	4.1.30		2361.32	Embedded Copper Grounding Plates	each	1	4.000	390.40	390.40	453.87	0.00	31.77	485.64	485.64	
61B	4.1.31		2361.33	Rigid PVC Conduit, size 129mm	m	75	5.400	527.04	39,528.00	95.00	30.00	8.75	133.75	10,031.25	
<b>SUB-TOTAL NORTH TRANSITION DAM</b>										<b>\$ 3,034,335.86</b>				<b>\$ 2,506,016.20</b>	
<b>CENTRE TRANSITION DAM</b>															
<b>CIVIL WORK</b>															
<b>Excavation</b>															
62	4.2.1		2362.01	Fill Excavation (Sand Layer for Winter Protection)	m³	2,100	0.339	27.20	57,115.80	7.52	7.67	1.06	16.26	34,143.17	
<b>Foundation Preparation</b>															
63	4.2.2		2362.02	Dental Excavation	m³	80	0.277	22.31	1,784.48	7.47	2.62	0.71	10.80	863.70	
64	4.2.3		2362.03	Scaling and Water/Air Jet Cleaning of Bedrock	m²	1,430	0.124	9.85	14,089.79	0.72	0.45	0.08	1.24	1,774.92	
65	4.2.4		2362.04	Dental Concrete	m³	215	1.846	145.44	31,268.53	158.80	28.11	13.08	199.99	42,998.65	
66	4.2.5		2362.05	Dry Pack	m³	10	1.925	150.65	1,506.47	246.40	30.61	19.39	296.40	2,963.96	
<b>Drilling, Pressure Grouting and Drainage</b>															
67	4.2.6		2362.06	Grouting Holes	m	600	0.889	72.56	43,537.80	37.13	118.99	10.93	167.05	100,227.11	
68	4.2.7		2362.07	Grouting - Successful Connections	each	120	3.375	275.50	33,059.76	109.47	480.84	41.32	631.63	75,796.06	
69	4.2.8		2362.08	Dry Cement for Grouting	kg	20,000	0.045	3.67	73,460.00	1.09	1.50	0.18	2.77	55,447.40	
70	4.2.9		2362.09	Water Pressure Tests (Lugeon)	hour	4	10.060	821.20	3,284.79	29.00	565.50	41.62	636.12	2,544.46	
71	4.2.10		2362.10	Water Pressure Tests - Successful Connections	each	10	1.450	118.36	1,183.64	120.00	57.00	12.39	189.39	1,893.90	
72	4.2.11		2362.11	Uplift Gauges	m	30	1.060	86.53	2,595.84	180.00	30.00	14.70	224.70	6,741.00	
73	4.2.12		2362.12	Thermistors	each	1	22.940	1,872.59	1,872.59	3,900.00	650.00	318.50	4,868.50	4,868.50	
74	4.2.13		2362.13	Rotary/Perussion Drill Check Holes	m	25	0.690	56.33	1,408.13	117.00	19.50	9.56	146.06	3,651.38	
75	4.2.14		2362.14	Cored (Diamond drill) holes	m	25	2.680	218.77	5,469.20	390.00	32.50	29.58	452.08	11,301.88	
76	4.2.15		2362.15	Drainage Holes	m	200	0.740	60.41	12,081.20	108.00	9.00	8.19	125.19	25,038.00	
77	4.2.16		2362.16	PVC Caps for Drainage Holes	each	20	0.820	66.94	1,338.74	150.00	30.00	12.60	192.60	3,852.00	
<b>Geotechnical Instrumentation</b>															
78	4.2.17		2362.17	Survey Monuments	each	5	1.810	147.75	738.75	331.00	66.00	27.79	424.79	2,123.95	
79	4.2.18		2362.18	Hydraulic piezometers	each	3	2.831	219.98	659.94	6,066.21	2.65	455.62	6,964.48	20,893.45	
80	4.2.19		2362.19	V-Notch Weirs	each	1	2.831	219.98	219.98	1,576.21	2.65	110.52	1,689.38	1,689.38	
<b>CONCRETE WORK</b>															
81	4.2.20		2362.20	Concrete Below El. 42.00 m	m³	26,900	4.174	316.93	8,525,282.50	159.34	50.34	14.68	224.36	6,035,248.22	
82	4.2.21		2362.21	Concrete Above El. 42.00 m	m³	2,550	4.124	313.23	798,736.50	172.51	50.27	15.59	238.37	607,849.27	
83	4.2.22		2362.22	Concrete - Slab on Steel Deck	m³	150	3.958	300.79	45,118.35	171.31	26.84	13.87	212.02	31,803.72	
84	4.2.23		2362.23	Grout	m³	17	2.337	184.95	3,144.22	1,024.39	211.82	86.53	1,322.74	22,486.51	
84A	4.2.23A		2362.24	PVC Waterstop - TYPE A (150 mm width)	m	135	0.267	21.14	2,853.77	11.02	0.13	0.78	11.93	1,610.33	
85	4.2.24		2362.25	PVC Waterstop - TYPE B (225 mm width)	m	629	0.267	21.14	13,296.43	17.94	0.13	1.26	19.33	12,160.31	
86	4.2.25		2362.26	Bituminous Coating at Contraction Joint	m²	3,060	0.528	39.37	120,475.26	14.67	0.13	1.04	15.84	48,471.26	
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>															
87	4.2.26		2362.27	Reinforcement including Dowels	kg	145,000	0.021	1.56	226,345.00	1.38	0.07	0.10	1.55	224,967.50	
<b>SUPPLY AND INSTALLATION OF STRUCTURAL STEEL</b>															
88	4.2.27		2362.28	Painted Structural Steel	kg	79,400	0.024	1.95	154,591.80	6.86	0.21	0.49	7.56	600,143.31	
<b>STRUCTURAL STEEL AND MISCELLANEOUS METAL</b>															
<b>Supply and Installation of Non Embedded Miscellaneous Metal</b>															
89	4.2.28		2362.29	Galvanized Miscellaneous Steel	kg	37,000	0.040	3.24	119,769.00	8.62	0.34	0.63	9.58	354,607.63	
90	4.2.29		2362.30	Galvanized Grating	kg	1,745	0.029	2.38	4,147.87	10.29	0.25	0.74	11.27	19,672.29	
<b>Embedded Miscellaneous Metals</b>															
91	4.2.30		2362.31	Embedded Miscellaneous Steel (Frames, L Shapes, Sleeves, etc.)	kg	16,870	0.059	4.74	79,997.54	8.93	0.49	0.66	10.08	170,003.38	
<b>Metal Decking including Shear Studs (Galvanized)</b>															
92	4.2.31		2362.32	Steel deck type RD 306 (t=0.91 mm)	m²	400	0.500	39.27	15,709.20	166.74	5.50	12.06	184.30	73,720.43	
93	4.2.32		2362.33	Shear Studs	kg	375	0.059	4.74	1,778.25	2.55	0.49	0.21	3.25	1,220.60	
<b>Crane Rails including Fastening System and Accessories</b>															
94	4.2.33		2362.34	Rails for Trash Cleaning System	m	140	1.400	113.04	15,824.90	347.44	12.34	25.18	384.96	53,894.00	
95	4.2.34		2362.35	Anchor Bolts Grade 55 ASTM F1554	kg	4,850	0.059	4.74	22,998.70	2.60	0.49	0.22	3.31	16,061.50	
96	4.2.35		2362.36	Elastomeric Bearing Pads	each	21	0.331	26.59	558.37	81.45	2.64	5.89	89.98	1,889.48	

Exhibit 2 - Appendix A –Option 2 - FPTCL  
 Schedule of Price Breakdown  
 Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN								EXHIBIT 2 - APPENDIX A			
ISSUED FOR: AGREEMENT		DATE: 28-OCT-2013		CONTRACTOR'S NAME: ASTALDI CANADA INC.											
PRICE ITEM				WBS CODE				LABOUR COMPONENT				NON LABOUR COMPONENT			
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY OF UNITS A	MAN HOURS (AT SITE) per UNIT	MANPOWER COST/ UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=(AxB)	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G= (D+E+F)	TOTAL PRICE (\$ CAD) H= A x G	
<b>ELECTRICAL WORK</b>															
97	4.2.36	2362.37		Exothermic Connections.	each	140	2.400	234.24	32,793.60	146.48	0.00	10.25	156.74	21,943.15	
97A	4.2.36A	2362.38		Mechanical Connections	each	17	2.300	224.48	3,816.16	211.64	0.00	14.81	226.46	3,849.75	
98	4.2.37	2362.39		Embedded Copper Grounding Plates	each	2	4.000	390.40	780.80	453.87	0.00	31.77	485.64	971.29	
99	4.2.38	2362.40		Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 500 kcmil	m	500	0.414	40.42	20,208.00	60.28	0.00	4.22	64.50	32,249.27	
100	4.2.39	2362.41		Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 4/0 AWG	m	225	0.224	21.88	4,923.00	27.71	0.00	1.94	29.65	6,671.66	
101	4.2.40	2362.42		Rigid PVC Conduit, size 41mm	m	0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
101A	4.2.40A	2362.43		Rigid PVC Conduit, size 53mm	m	3	2.000	195.20	585.60	108.25	0.00	7.58	115.82	347.47	
102	4.2.41	2362.44		Rigid PVC Conduit, size 78mm	m	0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
103	4.2.42	2362.45		Rigid PVC Conduit, size 129mm	m	110	5.400	527.04	57,974.40	95.00	30.00	8.75	133.75	14,712.50	
104	4.2.43	2362.46		Junction Box, size 200 x 200 x 150 mm Complete with Traffic Rated Cover	each	0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>SUB-TOTAL CENTRE TRANSITION DAM</b>									\$	10,558,384.64				\$	8,755,368.19
<b>4.3 2363.00 SOUTH TRANSITION DAM</b>															
<b>CIVIL WORK</b>															
<b>Excavation</b>															
105	4.3.1	2363.01		Fill Excavation (Sand Layer for Winter Protection)	m³	1,350	0.339	27.20	36,717.30	7.52	7.67	1.06	16.26	21,949.18	
<b>Foundation Preparation</b>															
106	4.3.2	2363.02		Dental Excavation	m³	45	0.277	22.31	1,003.77	7.47	2.62	0.71	10.80	485.83	
107	4.3.3	2363.03		Scaling and Water/Air Jet Cleaning of Bedrock	m²	900	0.124	9.85	8,867.70	0.72	0.45	0.08	1.24	1,117.08	
108	4.3.4	2363.04		Dental Concrete	m³	135	1.846	145.44	19,633.73	158.80	28.11	13.08	199.99	26,999.18	
109	4.3.5	2363.05		Dry Pack	m³	6	1.925	150.65	903.88	246.40	30.61	19.39	296.40	1,778.38	
<b>Drilling, Pressure Grouting and Drainage</b>															
110	4.3.6	2363.06		Grouting Holes	m	500	0.889	72.56	36,281.50	37.13	118.99	10.93	167.05	83,522.60	
111	4.3.7	2363.07		Grouting - Successful Connections	each	100	3.375	275.50	27,549.80	109.47	480.84	41.32	631.63	63,163.38	
112	4.3.8	2363.08		Dry Cement for Grouting	kg	18,000	0.045	3.67	66,114.00	1.09	1.50	0.18	2.77	49,902.66	
113	4.3.9	2363.09		Water Pressure Tests (Lugeon)	hour	5	10.060	821.20	4,105.99	29.00	565.50	41.62	636.12	3,180.58	
114	4.3.10	2363.10		Water Pressure Tests - Successful Connections	each	12	1.450	118.36	1,420.37	120.00	57.00	12.39	189.39	2,272.68	
115	4.3.11	2363.11		Uplift Gauges	m	30	1.060	86.53	2,595.84	180.00	30.00	14.70	224.70	6,741.00	
116	4.3.12	2363.12		Thermistors	each	1	22.940	1,872.59	1,872.59	3,900.00	650.00	318.50	4,868.50	4,868.50	
117	4.3.13	2363.13		Rotary/Per percussion Drill Check Holes	m	30	0.690	56.33	1,689.75	117.00	19.50	9.56	146.06	4,381.65	
118	4.3.14	2363.14		Cored (Diamond drill) holes	m	30	2.680	218.77	6,563.04	390.00	32.50	29.58	452.08	13,562.25	
119	4.3.15	2363.15		Drainage Holes	m	225	0.740	60.41	13,591.35	108.00	9.00	8.19	125.19	28,167.75	
120	4.3.16	2363.16		PVC Caps for Drainage Holes	each	15	0.820	66.94	1,004.06	150.00	30.00	12.60	192.60	2,889.00	
<b>Geotechnical Instrumentation</b>															
121	4.3.17	2363.17		Survey Monuments	each	4	1.810	147.75	591.00	331.00	66.00	27.79	424.79	1,699.16	
122	4.3.18	2363.18		Hydraulic piezometers	each	2	2.831	219.98	439.96	6,506.21	2.65	455.62	6,964.48	13,928.96	
123	4.3.19	2363.19		V-Notch Weirs	each	1	2.831	219.98	219.98	1,576.21	2.65	110.52	1,689.38	1,689.38	
<b>CONCRETE WORK</b>															
124	4.3.20	2363.20		Concrete	m³	9,700	3.974	302.32	2,932,474.90	158.57	48.67	14.51	221.75	2,150,975.10	
124A	4.3.20A	2363.21		PVC Waterstop - TYPE A (150 mm width)	m	130	0.267	21.14	2,748.07	11.02	0.13	0.78	11.93	1,550.69	
125	4.3.21	2363.22		PVC Waterstop - TYPE B (225 mm width)	m	170	0.267	21.14	3,593.63	17.94	0.13	1.26	19.33	3,286.57	
126	4.3.22	2363.23		Hydrophilic Waterstop	m	0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
127	4.3.23	2363.24		Bituminous Coating at Contraction Joints	m²	380	0.528	39.37	14,960.98	14.67	0.13	1.04	15.84	6,019.31	
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>															
128	4.3.24	2363.25		Reinforcement including Dowels	kg	283,300	0.020	1.47	417,300.90	1.37	0.02	0.10	1.49	421,352.09	
<b>STRUCTURAL STEEL AND MISCELLANEOUS METAL</b>															
<b>Supply and Installation of Non Embedded Miscellaneous Metal</b>															
129	4.3.25	2363.26		Galvanized Miscellaneous Steel	kg	14,850	0.040	3.24	48,069.45	8.62	0.34	0.63	9.58	142,322.25	
130	4.3.26	2363.27		Galvanized Grating	kg	230	0.029	2.38	546.71	10.29	0.25	0.74	11.27	2,592.91	
131	4.3.27	2363.28		Embedded Miscellaneous Metals	kg	110	0.040	3.24	356.07	8.62	0.34	0.63	9.58	1,054.24	
132	4.3.28	2363.29		Embedded Miscellaneous Steel (Frames, L Shapes, Sleeves, etc.)	kg	1,350	0.059	4.74	6,401.70	2.60	0.49	0.22	3.31	4,470.73	
<b>ELECTRICAL WORK</b>															
133	4.3.29	2363.30		Exothermic Connections.	each	100	2.400	234.24	23,424.00	146.48	0.00	10.25	156.74	15,673.68	
133A	4.3.29A	2363.31		Mechanical Connections	each	12	2.300	224.48	2,693.76	211.64	0.00	14.81	226.46	2,717.47	
134	4.3.30	2363.32		Embedded Copper Grounding Plates	each	2	4.000	390.40	780.80	453.87	0.00	31.77	485.64	971.29	
135	4.3.31	2363.33		Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 500 kcmil	m	300	0.414	40.42	12,124.80	60.28	0.00	4.22	64.50	19,349.56	
136	4.3.32	2363.34		Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 4/0 AWG	m	150	0.224	21.88	3,282.00	27.71	0.00	1.94	29.65	4,447.78	
137	4.3.33	2363.35		Rigid PVC Conduit, size 53mm	m	5	2.000	195.20	976.00	108.25	0.00	7.58	115.82	579.12	
<b>SUB-TOTAL SOUTH TRANSITION DAM</b>									\$	3,700,899.38				\$	3,109,661.94
<b>4.4 2364 SEPARATION WALL</b>															
<b>CIVIL WORK</b>															
<b>Foundation Preparation</b>															
138	4.4.1	2364.01		Dental Excavation	m³	50	0.277	22.31	1,115.30	7.47	2.62	0.71	10.80	539.82	
139	4.4.2	2364.02		Scaling and Water/Air Jet Cleaning of Bedrock	m²	900	0.124	9.85	8,867.70	0.72	0.45	0.08	1.24	1,117.08	
140	4.4.3	2364.03		Dental Concrete	m³	130	1.846	145.44	18,906.55	158.80	28.11	13.08	199.99	25,999.18	
141	4.4.4	2364.04		Dry Pack	m³	6	1.925	150.65	903.88	246.40	30.61	19.39	296.40	1,778.38	
<b>CONCRETE WORK</b>															
142	4.4.5	2364.05		Concrete - Separation Wall	m³	10,850	4.968	375.86	4,078,091.85	161.08	78.02	16.74	255.83	2,775,738.57	
143	4.4.6	2364.06		PVC Waterstop - TYPE B (225 mm width)	m	60	0.267	21.14	1,268.34	17.94	0.13	1.26	19.33	1,159.97	
144	4.4.7	2364.07		Hydrophilic Waterstop	m	15	0.267	21.14	317.09	21.48	0.13	1.51	23.12	346.81	
145	4.4.8	2364.08		Bituminous Coating at Contraction Joint	m²	810	0.528	39.37	31,890.51	14.67	0.13	1.04	15.84	12,830.63	
<b>SUB-TOTAL SEPARATION WALL</b>									\$	4,141,361.22				\$	2,819,510.43



Exhibit 2 - Appendix A –Option 2 - FPTCL  
Schedule of Price Breakdown  
Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN							EXHIBIT 2 - APPENDIX A						
				ISSUED FOR: AGREEMENT DATE: 28-OCT-2013			CONTRACTOR'S NAME: ASTALDI CANADA INC.							505573-CH0007-51AF-I-2111 Rev. 10T			
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY OF UNITS A	MAN HOURS (AT SITE) per UNIT	LABOUR COMPONENT		NON LABOUR COMPONENT							
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE					MANPOWER COST/ UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=AxB	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G= (D+E+F)	TOTAL PRICE (\$ CAD) H= A x G			
<b>5 2400</b>				<b>SPILLWAY</b>													
<b>5.1 2410</b>				<b>SPILLWAY STRUCTURE</b>													
				<b>CIVIL WORK</b>													
				<b>Excavation and Backfill</b>													
146	5.1.1		2410.01	Fill Excavation (Sand Layer for Winter Protection)	m³	7,600	0.339	27.20	206,704.80	7.52	7.67	1.06	16.26	123,565.74			
				<b>Drilling, Pressure Grouting and Drainage</b>													
147	5.1.2		2410.02	Grouting Holes	m	650	0.889	72.56	47,165.95	37.13	118.99	10.93	167.05	108,579.37			
148	5.1.3		2410.03	Grouting - Successful Connections	each	130	3.375	275.50	35,814.74	109.47	480.84	41.32	631.63	82,112.40			
149	5.1.4		2410.04	Dry Cement for Grouting	kg	23,000	0.045	3.67	84,479.00	1.09	1.50	0.18	2.77	63,764.51			
150	5.1.5		2410.05	Water Pressure Tests (Lugeon)	hour	4	10.060	821.20	3,284.79	29.00	565.50	41.62	636.12	2,544.46			
151	5.1.6		2410.06	Water Pressure Tests - Successful Connections	each	10	1.450	118.36	1,183.64	120.00	57.00	12.39	189.39	1,893.90			
152	5.1.7		2410.07	Uplift Gauges	m	30	1.060	86.53	2,595.84	180.00	30.00	14.70	224.70	6,741.00			
153	5.1.8		2410.08	Thermistors	each	1	22.940	1,872.59	1,872.59	3,900.00	650.00	318.50	4,868.50	4,868.50			
154	5.1.9		2410.09	Rotary/Percussion Drill Check Holes	m	25	0.690	56.33	1,408.13	117.00	19.50	9.56	146.06	3,651.38			
155	5.1.10		2410.10	Cored (Diamond drill) holes	m	25	2.680	218.77	5,469.20	390.00	32.50	29.58	452.08	11,301.88			
				<b>Instrumentation</b>													
156	5.1.11		2410.11	Survey Monuments	each	6	1.810	147.75	886.50	331.00	66.00	27.79	424.79	2,548.74			
				<b>Foundation preparation</b>													
157	5.1.12		2410.12	Scaling and Water/Air Jet Cleaning of rock foundation	m²	5,100	0.124	9.85	50,250.30	0.72	0.45	0.08	1.24	6,330.12			
				<b>CONCRETE WORK</b>													
				<b>Spillway and Related Structures including Retaining Walls</b>													
158	5.1.13		2410.13	Concrete - Slabs	m³	13,100	2.728	207.29	2,715,459.70	187.77	35.25	15.61	238.63	3,126,099.37			
159	5.1.14		2410.14	Concrete - Piers and Walls	m³	32,900	7.469	557.93	18,356,028.60	216.35	111.58	22.96	350.89	11,544,154.99			
160	5.1.15		2410.15	Concrete - Rollways	m³	19,500	2.689	204.43	3,986,424.00	198.35	33.80	16.25	248.40	4,843,851.48			
161	5.1.16		2410.16	Demolition of Slab for Rollway Key	m³	200	0.474	37.50	7,499.40	7.51	3.22	0.75	11.48	2,296.01			
162	5.1.17		2410.17	Overbreak Concrete	m³	3,000	2.078	159.68	479,040.00	196.06	26.34	15.57	237.96	713,884.74			
163	5.1.18		2410.18	Grout	m³	20	2.337	184.95	3,699.08	1,024.39	211.82	86.53	1,322.74	26,454.72			
164	5.1.19		2410.19	PVC Waterstop - TYPE A (150 mm width)	m	4,100	0.267	21.14	86,669.90	11.02	0.13	0.78	11.93	48,906.28			
164A	5.1.19A		2410.20	PVC Waterstop - TYPE B (225 mm width)	m	1,000	0.267	21.14	21,139.00	17.94	0.13	1.26	19.33	19,332.76			
164B	5.1.19B		2410.21	PVC Waterstop - TYPE D	m	550	0.267	21.14	11,626.45	40.69	0.13	2.86	43.68	24,021.39			
165	5.1.20		2410.22	Hydrophilic Waterstop	m	0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
166	5.1.21		2410.23	Bituminous Coating at Contraction Joint	m²	950	0.528	39.37	37,402.45	14.67	0.13	1.04	15.84	15,048.27			
				<b>REINFORCEMENT, ANCHORS AND DOWELS</b>													
167	5.1.22		2410.24	Reinforcement including Dowels	kg	3,850,000	0.020	1.47	5,671,050.00	1.37	0.02	0.10	1.49	5,726,105.00			
168	5.1.23		2410.25	Drill Holes and Grouting for Rock Dowels	m	1,200	2.244	170.72	204,864.00	20.95	6.81	1.94	29.69	35,631.00			
169	5.1.24		2410.26	Threaded Rebars with Couplers	kg	117,000	0.044	3.31	387,387.00	2.75	0.08	0.20	3.02	353,411.37			
				<b>STRUCTURAL STEEL AND MISCELLANEOUS METAL</b>													
				<b>Non Embedded Miscellaneous Metal</b>													
170	5.1.25		2410.27	Non Embedded Galvanized Miscellaneous Steel	kg	10,900	0.059	4.74	51,687.80	9.55	0.49	0.70	10.74	117,073.19			
171	5.1.26		2410.28	Non Embedded Galvanized Grating	kg	0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
				<b>Embedded Miscellaneous Metals</b>													
172	5.1.27		2410.29	Embedded Galvanized Miscellaneous Steel (Frames, LShapes, Sleeves, etc.)	kg	430	0.040	3.24	1,391.91	8.62	0.34	0.63	9.58	4,121.12			
173	5.1.28		2410.30	Bulkhead Formwork - Rollway Joints	kg	13,500	0.045	3.67	49,504.50	9.11	0.38	0.66	10.15	137,039.72			
				<b>Crane Rails including Fastening System and Accessories</b>													
174	5.1.29		2410.31	Rails for Trash Cleaning System	m	150	1.400	113.04	16,955.25	348.68	12.34	25.27	386.29	57,943.55			
175	5.1.30		2410.32	Anchor Bolts Grade 55 ASTM F1554	kg	2,520	0.059	4.74	11,949.84	2.60	0.49	0.22	3.31	8,435.36			
				<b>ANCHORS AND EMBEDDED PARTS PROVIDED BY OTHERS</b>													
176	5.1.31		2410.33	Anchors, Templates and Angles in Primary Concrete for Gates and Rollways (5 Sets)	kg	91,135	0.016	1.31	119,204.58	4.12	0.15	0.30	4.56	415,801.61			
177	5.1.32		2410.34	Anchors, Templates and Angles in Primary Concrete for Upstream Temporary Stoplogs (5 Sets)	kg	75,160	0.016	1.31	98,309.28	4.12	0.15	0.30	4.56	342,916.00			
178	5.1.33		2410.35	Anchors, Templates and Angles in Primary Concrete for Upstream Permanent Stoplogs (5 Sets)	kg	42,492	0.016	1.31	55,579.54	4.12	0.15	0.30	4.56	193,868.90			
179	5.1.34		2410.36	Anchors, Templates and Angles in Primary Concrete for Downstream Stoplogs (5 Sets)	kg	15,497	0.016	1.31	20,270.08	4.12	0.15	0.30	4.56	70,704.75			
180	5.1.35		2410.37	Anchors and Templates in Primary Concrete for Hoist Towers (5 Sets)	kg	430	0.016	1.31	562.44	4.12	0.15	0.30	4.56	1,961.87			
181	5.1.36		2410.38	Anchors and Templates in Primary Concrete for Walkways (5 Sets)	kg	200	0.016	1.31	261.60	4.12	0.15	0.30	4.56	912.50			
182	5.1.37		2410.39	Liner Plates in sides of Piers	each	10	1.472	118.89	1,188.85	374.03	13.43	27.12	414.58	4,145.79			
				<b>ELECTRICAL WORK</b>													
183	5.1.38		2410.40	Exothermic Connections.	each	290	2.400	234.24	67,929.60	146.48	0.00	10.25	156.74	45,453.67			
183A	5.1.38A		2410.41	Mechanical Connections	each	45	2.300	224.48	10,101.60	211.64	0.00	14.81	226.46	10,190.51			
184	5.1.39		2410.42	Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 500 kcmil	m	2,200	0.414	40.42	88,915.20	60.28	0.00	4.22	64.50	141,896.77			
185	5.1.40		2410.43	Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 4/0 AWG	m	550	0.224	21.88	12,034.00	27.71	0.00	1.94	29.65	16,308.51			
186	5.1.41		2410.44	Rigid Galvanized Steel Conduits, size 53mm	m	50	9.600	936.96	46,848.00	49.00	40.00	6.23	95.23	4,761.50			
				<b>SUB-TOTAL SPILLWAY STRUCTURE</b>													
<b>5.2 2411</b>				<b>SPILLWAY BRIDGES</b>													
				<b>CONCRETE WORK</b>													
187	5.2.1		2411.01	Concrete - Slab on Bridge Deck	m³	460	3.596	274.03	126,051.50	189.44	26.50	15.12	231.06	106,287.14			
				<b>REINFORCEMENT, ANCHORS AND DOWELS</b>													
188	5.2.2		2411.02	Reinforcement including Dowels	kg	122,150	0.020	1.47	179,926.95	1.37	0.02	0.10	1.49	181,673.70			

Exhibit 2 - Appendix A –Option 2 - FPTCL  
 Schedule of Price Breakdown  
 Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN							EXHIBIT 2 - APPENDIX A 505573-CH0007-51AF-I-2111 Rev. 10T				
ISSUED FOR: AGREEMENT DATE: 28-OCT-2013				CONTRACTOR'S NAME: ASTALDI CANADA INC.											
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY OF UNITS A	MAN HOURS (AT SITE) per UNIT	LABOUR COMPONENT			NON LABOUR COMPONENT				
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE					MANPOWER COST/UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=(AxB)	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G=(D+E+F)	TOTAL PRICE (\$ CAD) H= A X G	
<b>STRUCTURAL STEEL AND MISCELLANEOUS METAL</b>															
<b>Structural Steel</b>															
189	5.2.3		2411.03	Structural Steel - Painted/Galvanized Sections	kg	263,500	0.021	1.73	456,382.00	5.46	0.19	0.40	6.04	1,591,579.53	
190	5.2.4		2411.04	Non Embedded Galvanized Miscellaneous Metal	kg	58,500	0.059	4.74	277,407.00	9.55	0.49	0.70	10.74	628,328.61	
191	5.2.5		2411.05	Non Embedded Galvanized Miscellaneous Steel	kg	0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Embedded Miscellaneous Metals</b>															
192	5.2.6		2411.06	Embedded Galvanized Miscellaneous Steel (Frames, L Shapes, Sleeves, etc...)	kg	12,850	0.040	3.24	41,595.45	8.62	0.34	0.63	9.58	123,154.27	
192A	5.2.6A		2411.07	Shear Studs	kg	3,420	0.059	4.74	16,217.64	2.55	0.49	0.21	3.25	11,131.89	
193	5.2.7		2411.08	Elastomeric Bearing Pads	each	110	0.331	26.59	2,924.79	64.31	2.64	4.69	71.64	7,880.37	
194	5.2.8		2411.09	Bridge Expansion Joints	each	12	0.331	26.59	319.07	64.92	2.64	4.73	72.29	867.47	
195	5.2.9		2411.10	Anchor Bolts Grade 55 ASTM F1554	kg	13,000	0.059	4.74	61,646.00	2.60	0.49	0.22	3.31	43,051.45	
<b>SUB-TOTAL SPILLWAY BRIDGES</b>									\$ 1,162,470.40					\$ 2,693,954.43	
<b>5.3 2430 SPILLWAY DISCHARGE CHANNEL - PHASE 1</b>															
<b>CIVIL WORK</b>															
<b>Foundation preparation</b>															
196	5.3.1		2430.01	Scaling and Water/Air Jet Cleaning of rock foundation	m <sup>2</sup>	2,880	0.124	9.85	28,376.64	0.72	0.45	0.08	1.24	3,574.66	
<b>CONCRETE WORK</b>															
197	5.3.2		2430.02	Concrete - Slabs (CVC)	m <sup>3</sup>	1,725	4.159	319.87	551,777.48	211.00	51.99	18.41	281.39	485,404.56	
198	5.3.3		2430.03	Concrete - Walls (CVC)	m <sup>3</sup>	700	6.660	500.87	350,606.90	213.97	99.04	21.91	334.92	234,445.99	
199	5.3.4		2430.04	Overbreak Concrete	m <sup>3</sup>	1,600	1.964	154.00	246,401.60	206.39	27.26	16.36	250.00	400,001.95	
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>															
200	5.3.5		2430.05	Reinforcement including Dowels	kg	145,000	0.020	1.47	213,585.00	1.37	0.02	0.10	1.49	215,658.50	
201	5.3.6		2430.06	Drill Holes and Grouting for Rock Dowels	m	3,650	2.244	170.72	623,128.00	20.95	6.81	1.94	29.69	108,377.63	
<b>SUB-TOTAL SPILLWAY DISCHARGE CHANNEL - PHASE 1</b>									\$ 2,013,875.62					\$ 1,447,463.28	
<b>5.4 2431 SPILLWAY DISCHARGE CHANNEL - PHASE 2 - OPTIONAL</b>															
<b>CIVIL WORK</b>															
<b>Foundation preparation</b>															
202	5.4.1		2431.01	Scaling and Water/Air Jet Cleaning of rock foundation	m <sup>2</sup>	1,440	0.124	9.85	14,188.32	0.72	0.45	0.08	1.24	1,787.33	
<b>CONCRETE WORK</b>															
203	5.4.2		2431.02	Concrete - Slabs (CVC)	m <sup>3</sup>	750	2.728	207.29	155,465.25	187.77	35.25	15.61	238.63	178,975.16	
204	5.4.3		2431.03	Concrete - Walls (CVC)	m <sup>3</sup>	300	9.686	695.53	208,659.60	228.89	193.36	29.56	451.81	135,542.57	
205	5.4.4		2431.04	Overbreak Concrete	m <sup>3</sup>	700	2.078	159.68	111,776.00	196.06	26.34	15.57	237.96	166,573.11	
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>															
206	5.4.5		2431.05	Reinforcement including Dowels	kg	90,000	0.020	1.47	132,570.00	1.37	0.02	0.10	1.49	133,857.00	
207	5.4.6		2431.06	Drill Holes and Grouting for Rock Dowels	m	1,900	2.244	170.72	324,368.00	20.95	6.81	1.94	29.69	56,415.75	
<b>SUB-TOTAL SPILLWAY DISCHARGE CHANNEL - PHASE 2</b>									\$ 947,027.17					\$ 673,150.91	
<b>5.5 2432 SPILLWAY DISCHARGE CHANNEL - PHASE 3 - OPTIONAL</b>															
<b>CIVIL WORK</b>															
<b>Foundation preparation</b>															
208	5.5.1		2432.01	Scaling and Water/Air Jet Cleaning of rock foundation	m <sup>2</sup>	3,400	0.124	9.85	33,500.20	0.72	0.45	0.08	1.24	4,220.08	
<b>CONCRETE WORK</b>															
209	5.5.2		2432.02	Concrete - Slabs (CVC)	m <sup>3</sup>	2,000	2.728	207.29	414,574.00	187.77	35.25	15.61	238.63	477,267.08	
210	5.5.3		2432.03	Concrete - Walls (CVC)	m <sup>3</sup>	200	9.686	695.53	139,106.40	228.89	193.36	29.56	451.81	90,361.71	
211	5.5.4		2432.04	Overbreak Concrete	m <sup>3</sup>	2,000	2.078	159.68	319,360.00	196.06	26.34	15.57	237.96	475,923.16	
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>															
212	5.5.5		2432.05	Reinforcement including Dowels	kg	160,000	0.020	1.47	235,680.00	1.37	0.02	0.10	1.49	237,968.00	
213	5.5.6		2432.06	Drill Holes and Grouting for Rock Dowels	m	4,600	2.244	170.72	785,312.00	20.95	6.81	1.94	29.69	136,585.50	
<b>SUB-TOTAL SPILLWAY DISCHARGE CHANNEL - PHASE 3</b>									\$ 1,927,532.60					\$ 1,422,325.53	
<b>6 3200 INTAKE</b>															
<b>6.1 3220 INTAKE STRUCTURE</b>															
<b>CIVIL WORK</b>															
<b>Drilling, Pressure Grouting and Drainage</b>															
214	6.1.1		3220.01	Grouting Holes	m	2,000	0.889	72.56	145,126.00	37.13	118.99	10.93	167.05	334,090.38	
215	6.1.2		3220.02	Grouting - Successful Connections	each	400	3.375	275.50	110,199.20	109.47	480.84	41.32	631.63	252,653.54	
216	6.1.3		3220.03	Dry Cement for grouting	kg	70,000	0.045	3.67	257,110.00	1.09	1.50	0.18	2.77	194,065.90	
217	6.1.4		3220.04	Water Pressure Tests (Lugeon)	hour	8	10.060	821.20	6,569.58	29.00	565.50	41.62	636.12	5,088.92	
218	6.1.5		3220.05	Water Pressure Tests - Successful Connections	each	20	1.450	118.36	2,367.28	120.00	57.00	12.39	189.39	3,787.80	
219	6.1.6		3220.06	Uplift Gauges	m	30	1.060	86.53	2,595.84	180.00	30.00	14.70	224.70	6,741.00	
220	6.1.7		3220.07	Thermistors	each	1	22.940	1,872.59	1,872.59	3,900.00	650.00	318.50	4,868.50	4,868.50	
221	6.1.8		3220.08	Rotary/Perussion Drill Check Holes	m	50	0.690	56.33	2,816.25	117.00	19.50	9.56	146.06	7,302.75	
222	6.1.9		3220.09	Cored (Diamond drill) holes	m	50	2.680	218.77	10,938.40	390.00	32.50	29.56	452.08	22,663.75	
223	6.1.10		3220.10	Drainage Holes	m	800	0.740	60.41	48,324.80	108.00	9.00	8.19	125.19	100,152.00	
224	6.1.11		3220.11	PVC Caps for Drainage Holes	each	50	0.820	66.94	3,346.85	150.00	30.00	12.60	192.60	9,630.00	
<b>Foundation preparation</b>															
225	6.1.12		3220.12	Scaling and Water/Air Jet Cleaning of rock foundation	m <sup>2</sup>	4,900	0.124	9.85	48,279.70	0.72	0.45	0.08	1.24	6,081.88	
<b>Geotechnical Instrumentation</b>															
226	6.1.13		3220.13	Survey Monuments	each	4	1.810	147.75	591.00	331.00	66.00	27.79	424.79	1,699.16	
227	6.1.14		3220.14	V-Notch Weirs	each	2	2.831	219.98	439.96	1,576.21	2.65	110.52	1,689.38	3,378.76	

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Schedule of Price Breakdown  
Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN							EXHIBIT 2 - APPENDIX A 505573-CH0007-51AF-I-2111 Rev. 10T				
ISSUED FOR: AGREEMENT DATE: 28-OCT-2013				CONTRACTOR'S NAME: ASTALDI CANADA INC.											
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY OF UNITS A	MAN HOURS (AT SITE) per UNIT	MANPOWER COST/UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=(AxB)	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G= (D+E+F)	TOTAL PRICE (\$ CAD) H= A x G	
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE												
<b>CONCRETE WORK</b>															
<b>CONCRETE INTAKE &amp; GATE HOIST BUILDING</b>															
228	6.1.15	3220.15		Concrete - Substructure below El. 45.5 m	m <sup>3</sup>	143,305	4.615	350.33	50,204,613.87	183.57	62.10	17.20	262.87	37,670,754.45	
229	6.1.16	3220.16		Concrete - Gate Hoist Building and Elevator Room above El. 45.5 m	m <sup>3</sup>	1,646	9.934	744.03	1,224,678.32	192.27	113.91	21.43	327.61	539,243.29	
230	6.1.17	3220.17		Overbreak Concrete	m <sup>3</sup>	3,000	1.991	151.59	454,767.00	182.81	27.24	14.70	224.75	674,263.71	
231	6.1.18	3220.18		Grout	m <sup>3</sup>	30	2.337	184.95	5,548.62	1,024.39	211.82	86.53	1,322.74	39,682.08	
232	6.1.19	3220.19		PVC Waterstop - TYPE A (150 mm width)	m	8,611	0.267	21.14	182,027.93	11.02	0.13	0.78	11.93	102,715.11	
233	6.1.20	3220.20		PVC Waterstop - TYPE B (225 mm width)	m	876	0.267	21.14	18,517.76	17.94	0.13	1.26	19.33	16,935.50	
234	6.1.21	3220.21		Sealing of Joints	m	100	0.267	21.14	2,113.90	7.29	0.13	0.52	7.94	793.73	
235	6.1.22	3220.22		Bituminous Coating at Construction Joints	m <sup>2</sup>	6,020	0.528	39.37	237,013.42	14.67	0.13	1.04	15.84	95,358.49	
235A	6.1.22A	3220.23		Elastomeric Polyurea Membrane	m <sup>2</sup>	5,803	0.564	44.34	257,299.22	88.28	0.45	6.21	94.94	550,918.37	
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>															
236	6.1.23	3220.24		Reinforcement including Dowels	kg	10,647,650	0.025	1.92	20,400,897.40	1.54	0.20	0.12	1.86	19,801,008.80	
<b>INSTALLATION OF ANCHORS AND EMBEDDED PARTS PROVIDED BY OTHERS</b>															
237	6.1.24	3220.25		Anchors, Templates and Angles in Primary Concrete for Intake Gates (12 Sets)	kg	173,672	0.016	1.30	225,773.60	2.17	0.18	0.16	2.51	435,769.10	
238	6.1.25	3220.26		Anchors and Templates in Primary Concrete for Intake Trashracks (12 Sets)	kg	82,000	0.016	1.30	106,600.00	2.17	0.18	0.16	2.51	205,750.30	
239	6.1.26	3220.27		Anchors, Templates and Angles in Primary Concrete for Intake Stoplogs (12 Sets)	kg	151,021	0.016	1.30	196,327.30	2.17	0.18	0.16	2.51	378,934.34	
<b>INTAKE - ELECTRICAL WORK</b>															
240	6.2.1	3290.01		Exothermic Connections.	each	600	2.400	234.24	140,544.00	146.48	0.00	10.25	156.74	94,042.09	
240A	6.2.1A	3290.02		Mechanical Connections	each	104	2.300	224.48	23,345.92	211.64	0.00	14.81	226.46	23,551.41	
241	6.2.2	3290.03		Embedded Copper Grounding Plates	each	6	4.000	390.40	2,342.40	453.87	0.00	31.77	485.64	2,913.86	
242	6.2.3	3290.04		Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 500 kcmil	m	2,100	0.414	40.42	84,873.60	60.28	0.00	4.22	64.50	135,446.91	
243	6.2.4	3290.05		Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 4/0 AWG	m	1,900	0.224	21.88	41,572.00	27.71	0.00	1.94	29.65	56,338.50	
243A	6.2.5	3290.06		Rigid PVC Conduit, size 35mm	m	9	1.500	146.40	1,317.60	66.31	0.00	4.64	70.95	638.58	
243B	6.2.6	3290.07		Rigid PVC Conduit, size 78mm	m	26	1.050	102.48	2,049.60	75.29	0.00	5.27	80.56	1,611.25	
243C	6.2.7	3290.08		Rigid PVC Conduit, size 129mm	m	300	5.400	527.04	158,112.00	95.00	30.00	8.75	133.75	40,125.00	
<b>Heat Tracing of Drains</b>															
243D	6.2.8	3290.07		Heat Tracing Cable plus Accessories	m	224	1.800	140.89	31,560.03	182.13	0.00	12.75	194.88	43,653.88	
243E	6.2.9	3290.08		Heat Tracing Controllers	each	16	9.000	704.47	11,271.46	1,368.17	0.00	95.77	1,463.94	23,423.10	
243E	6.2.9	3290.08		Heat Tracing Controllers	each	16	9.000	704.47	11,271.46	1,368.17	0.00	95.77	1,463.94	23,423.10	
<b>SUB-TOTAL INTAKE STRUCTURE</b>															
									\$ 74,653,744.40						
<b>POWERHOUSE</b>															
<b>SUBSTRUCTURE</b>															
<b>CIVIL WORK</b>															
<b>Drilling, Pressure Grouting and Drainage</b>															
244	7.1.1	3310.01		Grouting Holes	m	800	0.889	72.56	58,050.40	37.13	118.99	10.93	167.05	133,636.15	
245	7.1.2	3310.02		Grouting - Successful Connections	each	160	3.375	275.50	44,079.68	109.47	480.84	41.32	631.63	101,061.41	
246	7.1.3	3310.03		Dry Cement for Grouting	kg	28,000	0.045	3.67	102,844.00	1.09	1.50	0.18	2.77	77,626.36	
247	7.1.4	3310.04		Water Pressure Tests (Lugeon)	hour	4	10.060	821.20	3,284.79	29.00	565.50	41.62	636.12	2,544.46	
248	7.1.5	3310.05		Water Pressure Tests - Successful Connections	each	10	1.450	118.36	1,183.64	120.00	57.00	12.39	189.39	1,893.90	
249	7.1.6	3310.06		Uplift Gauges	m	25	1.060	86.53	2,163.20	180.00	30.00	14.70	224.70	5,617.50	
250	7.1.7	3310.07		Thermistors	each	1	22.940	1,872.59	1,872.59	3,900.00	650.00	318.50	4,868.50	4,868.50	
251	7.1.8	3310.08		Rotary/Per percussion Drill Check Holes	m	25	0.690	56.33	1,408.13	117.00	19.50	9.56	146.06	3,651.38	
252	7.1.9	3310.09		Cored (Diamond drill) holes	m	25	2.680	218.77	5,469.20	390.00	32.50	29.58	452.08	11,301.88	
<b>Foundation preparation</b>															
253	7.1.10	3310.10		Scaling and Water/Air Jet Cleaning of rock foundation	m <sup>2</sup>	10,400	0.124	9.85	102,471.20	0.72	0.45	0.08	1.24	12,908.48	
<b>Trench for Interconnection Cables and Pipes</b>															
254	7.1.11	3310.11		Excavation and Backfill	LS	1	4,632.948	369,237.21	369,237.21	72,617.97	45,957.12	8,300.26	126,875.34	126,875.34	
255	7.1.12	3310.12		Ductbank	LS	1	6,012.412	433,959.01	433,959.01	111,829.00	7,614.31	8,361.03	127,804.35	127,804.35	
256	7.1.13	3310.13		Manholes	each	3	2.308	175.13	525.38	456.02	2.89	32.12	491.03	1,473.09	
<b>CONCRETE WORK</b>															
257	7.1.14	3310.14		Concrete - Powerhouse Substructure below El. 6.5 m	m <sup>3</sup>	131,135	3.628	277.69	36,414,615.88	180.80	73.57	17.81	272.17	35,691,646.33	
258	7.1.15	3310.15		Concrete - Substructure between lines 6 and 7, including Sump Pit, Shafts for Stair & Elevator up to El. 45.5m	m <sup>3</sup>	14,882	10.543	790.85	11,769,429.70	193.05	137.54	23.14	353.73	5,264,276.98	
259	7.1.16	3310.16		Concrete - Slabs and Walls between El. 6.5 and 15.5, including North and South Service Bays, Slab on grade, Basins and Bases for GSU transformer up to El. 16.8 m. Air vent enclosures on Powerhouse tailrace deck and North Service Bay. Access enclosure to stair no. 8 and Oil/Water separator enclosure.	m <sup>3</sup>	6,692	9.971	748.36	5,008,051.89	191.17	131.23	22.57	344.96	2,308,497.21	
260	7.1.17	3310.17		Concrete - Slab on Steel Deck including Mezzanines	m <sup>3</sup>	3,718	1.839	144.83	538,481.66	187.97	36.83	15.74	240.53	894,296.93	
261	7.1.18	3310.18		Secondary Concrete of Draft Tube Cone Steel liner	m <sup>3</sup>	2,420	4.032	305.06	738,233.10	169.91	207.60	26.43	403.94	977,529.57	
262	7.1.19	3310.19		Overbreak Concrete	m <sup>3</sup>	8,500	1.970	155.47	1,321,469.50	184.58	39.47	15.68	239.74	2,037,752.94	
263	7.1.20	3310.20		Grout	m <sup>3</sup>	15	2.337	184.95	2,774.31	1,024.39	211.82	86.53	1,322.74	19,841.04	
264	7.1.21	3310.21		PVC Waterstop - TYPE A (150 mm width)	m	9,746	0.267	21.14	206,020.69	11.02	0.13	0.78	11.93	116,253.80	
265	7.1.22	3310.22		PVC Waterstop - TYPE B (225 mm width)	m	1,404	0.267	21.14	29,679.16	17.94	0.13	1.26	19.33	27,143.20	
265A	7.1.22A	3310.23		PVC Waterstop - TYPE C (225 mm width)	m	25	0.267	21.14	528.48	17.94	0.13	1.26	19.33	483.32	
266	7.1.23	3310.24		Metallic Waterstop	m	27	0.287	21.14	570.75	33.59	0.13	2.36	36.08	974.11	
267	7.1.24	3310.25		Sealing of Joints	m	300	0.267	21.14	6,341.70	7.29	0.13	0.52	7.94	2,381.18	
268	7.1.25	3310.26		Polyethylene Foam Rod	m	140	0.267	21.14	2,959.46	7.19	0.13	0.51	7.83	1,096.24	
269	7.1.26	3310.27		Asphalt Impregnated Fibre Board	m <sup>2</sup>	70	0.528	39.37	2,755.97	320.69	0.13	22.46	343.28	24,029.27	
270	7.1.27	3310.28		Bituminous Coating at Construction Joint	m <sup>2</sup>	6,300	0.528	39.37	248,037.30	14.67	0.13	1.04	15.84	99,793.76	
271	7.1.28	3310.29		Soldrain 500 from Texel/Geosol	m <sup>2</sup>	170	-	0.00	0.00	9.89	0.00	0.69	10.58	1,798.99	
271A	7.1.28A	3310.30		Elastomeric Polyurea Membrane	m <sup>2</sup>	678	0.564	44.34	30,061.84	88.28	0.45	6.21	94.94	64,367.16	
271B	7.1.28B	3310.31		Polyflex 202 Membrane	m <sup>2</sup>	2,400	0.714	56.08	134,592.00	109.87	0.45	7.72	118.04	283,291.49	

Exhibit 2 - Appendix A –Option 2 - FPTCL  
 Schedule of Price Breakdown  
 Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN							EXHIBIT 2 - APPENDIX A 505573-CH0007-51AF-I-2111 Rev. 10T					
ISSUED FOR: AGREEMENT DATE: 28-OCT-2013				CONTRACTOR'S NAME: ASTALDI CANADA INC.												
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY OF UNITS A	MAN HOURS (AT SITE) per UNIT	LABOUR COMPONENT			NON LABOUR COMPONENT					
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE					MANPOWER COST/ UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=(AxB)	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G=(D+E+F)	TOTAL PRICE (\$ CAD) H= A X G		
<b>Fire Walls at Tailrace Deck (Transformer Deck)</b>																
272	7.1.29		3310.32	Prefabricated Concrete Longitudinal Sandwich Fire Walls (Refer to attached sketches)	m <sup>2</sup>	2,520	0.531	42.88		108,065.16	1,187.91	5.57	83.54	1,277.03	3,218,107.56	
273	7.1.30		3310.33	Prefabricated Transversal Concrete Fire Walls	m <sup>2</sup>	860	0.177	14.29		12,292.84	991.97	1.86	69.57	1,063.40	914,521.45	
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>																
274	7.1.31		3310.34	Reinforcement including Dowels	kg	10,918,631	0.025	1.92		20,920,097.00	1.54	0.20	0.12	1.86	20,304,941.33	
275	7.1.32		3310.35	Drill Holes and Grouting for Rock Dowels	m	700	2.244	170.72		119,504.00	20.95	6.81	1.94	29.69	20,784.75	
276	7.1.33		3310.36	Drill Holes for Anchors Diam. 25 mm. with Epoxy Adhesive HIT-RE-500	m	100	2.244	170.72		17,072.00	20.95	6.81	1.94	29.69	2,969.25	
277	7.1.34		3310.37	Threaded Rebar (Dia. 35 mm) with Couplers	kg	800	0.023	1.75		1,400.00	1.38	0.01	0.10	1.48	1,182.99	
<b>INSTALLATION OF ANCHORS AND EMBEDDED PARTS PROVIDED BY OTHERS</b>																
278	7.1.35		3310.38	Anchors, Templates and Angles in Primary Concrete for Draft Tube Stoplogs (8 Sets)	kg	55,370	0.016	1.30		71,981.00	2.17	0.18	0.16	2.51	138,931.64	
279	7.1.36		3310.39	Anchors and Embedded Parts in Primary Concrete for T/G Units	kg	64,000	0.016	1.30		83,200.00	2.17	0.18	0.16	2.51	160,585.60	
279A	7.1.37		3310.40	Installation of the lower portion of the circular passage for all 4 T/G Units - Optional (Refer to attached sketches)	kg	59,200	0.061	4.93		291,678.40	0.68	0.88	0.11	1.67	99,133.36	
<b>SUB-TOTAL POWERHOUSE - SUBSTRUCTURE</b>										\$	79,206,442.22				\$	73,287,874.24
<b>7.2 3320 SUPERSTRUCTURE (Intake and Powerhouse)</b>																
<b>STRUCTURAL STEEL</b>																
<b>Beams - Rolled Sections, Painted</b>																
280	7.2.1		3320.01	Beams Under 60 kg/m (incl. S, C, L shapes detailed as bracing, facing and overhangs, girt channels, steel connections for prefab concrete panels and building attachment steel to upstream wall)	kg	618,443	0.024	1.94		1,196,687.21	5.54	0.26	0.41	6.20	3,832,101.65	
281	7.2.2		3320.02	Beams From 61 to 150 kg/m	kg	359,270	0.019	1.51		541,779.16	5.04	0.20	0.37	5.61	2,015,892.71	
282	7.2.3		3320.03	Beams Over 150 kg/m	kg	316,266	0.016	1.29		409,248.20	4.53	0.17	0.33	5.03	1,592,193.74	
282A	7.2.3A		3320.04	W Beam Stiffener (For Generator Floor Beams)	kg	34,000	0.066	5.37		182,410.00	17.10	0.70	1.25	19.05	647,709.52	
282B	7.2.3B		3320.05	W Shape Columns - Rolled Sections, Painted	kg	11,200	0.048	3.87		43,332.80	14.12	0.51	1.02	15.65	175,313.94	
283	7.2.4		3320.06	W Shape Columns Under 60 kg/m	kg	1,697	0.024	1.94		3,283.70	6.73	0.26	0.49	7.47	12,681.48	
284	7.2.5		3320.07	W Shape Columns from 61 to 150 kg/m	kg	89,054	0.019	1.51		134,293.43	5.59	0.20	0.41	6.19	551,525.67	
285	7.2.6		3320.08	W Shape Columns Over 150 kg/m	kg	216,296	0.017	1.38		297,839.59	5.22	0.23	0.38	5.83	1,261,330.12	
<b>Grade WT Beams - Rolled Sections, Galvanized</b>																
285A	7.2.6A		3320.09	Grade WT Beams Under 60 kg/m	kg	1,700	0.024	1.94		3,289.50	19.49	0.26	1.38	21.13	35,925.25	
285B	7.2.6B		3320.10	Grade WT Beams From 61 to 150 kg/m	kg	34,000	0.019	1.51		51,272.00	11.60	0.20	0.83	12.63	429,502.28	
285C	7.2.6C		3320.11	Grade WT Beams Over 150 kg/m	kg	267,300	0.022	1.75		468,042.30	7.67	0.28	0.56	8.51	2,273,787.45	
285D	7.2.6D		3320.12	Grade WT Beams Bearing Plates	kg	15,800	0.048	3.87		61,130.20	14.12	0.51	1.02	15.65	247,317.67	
285E	7.2.6E		3320.13	Grade WT Beams Stiffener	kg	11,200	0.066	5.37		60,088.00	17.10	0.70	1.25	19.05	213,363.14	
<b>W Beams - Rolled Sections, Painted with Intumescent Paint</b>																
286	7.2.7		3320.14	W Beams Under 60 kg/m	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
287	7.2.8		3320.15	W Beams from 61 to 150 kg/m	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
288	7.2.9		3320.16	W Beams Over 150 kg/m	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
289	7.2.10		3320.17	W Beam Stiffeners and Bent Plate at Openings	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
290	7.2.11		3320.18	W Beam Base Plate	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
<b>WT Beams - Rolled Sections, Painted with Intumescent Paint</b>																
291	7.2.12		3320.19	WT Beams Under 60 kg/m	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
292	7.2.13		3320.20	WT Beams Over 150 kg/m	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
293	7.2.14		3320.21	WT Beam base plate	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
<b>Columns - Rolled Sections, Painted with Intumescent Paint</b>																
294	7.2.15		3320.22	Columns from 61 to 150 kg/m	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
295	7.2.16		3320.23	Columns Over 150 kg/m	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
<b>Columns, Built-up Sections, Painted with Intumescent Paint</b>																
296	7.2.17		3320.24	Main Building Columns, in Rolled Shapes & Plates, Welded Continuously.	kg	0	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
<b>Columns &amp; Girders - Built up Sections, Painted</b>																
297	7.2.18		3320.25	Crane Girders in Welded Plates, 700-800 kg/m	kg	385,449	0.013	1.08		416,670.13	5.38	0.15	0.39	5.92	2,281,151.41	
298	7.2.19		3320.26	Main Building Columns, in Rolled Shapes & Plates, Welded Continuously.	kg	875,566	0.013	1.08		946,486.85	5.26	0.15	0.38	5.78	5,060,894.06	
<b>Trusses, Painted</b>																
299	7.2.20		3320.27	Roof trusses and Wind Trusses	kg	275,598	0.024	1.94		533,281.75	5.71	0.26	0.42	6.38	1,758,721.89	
<b>Bracings, Struts and HSS Columns Painted</b>																
300	7.2.21		3320.28	Horizontal Bracing (WT Shapes) for roof and mezzanines	kg	76,964	0.029	2.36		181,865.93	6.24	0.31	0.46	7.01	539,402.19	
301	7.2.22		3320.29	HSS Square Shapes for Vertical Bracing, Horizontal Bracing, Struts and HSS Columns (HSS Columns not covered in price item 304 (ref 7.2.25))	kg	189,724	0.029	2.36		448,317.59	6.19	0.31	0.45	6.95	1,318,920.74	
<b>Nelson Studs, not painted</b>																
302	7.2.23		3320.30	Nelson Studs (Dia. 19 and 13 mm) Welded Mezzanine Beams	kg	3,305	0.058	4.71		15,576.47	14.94	0.61	1.09	16.64	54,997.32	
303	7.2.24		3320.31	Nelson Studs (Dia. 19 and 22 mm) Welded to Generator Floor Beams	kg	15,000	0.058	4.71		70,695.00	10.09	0.61	0.75	11.45	171,751.05	
<b>Stairs, Hot dip Galvanized</b>																
304	7.2.25		3320.32	Stair Stringers in Channels (incl. Galvanized Beams and Columns for the stairs)	kg	62,410	0.093	7.56		472,069.24	10.28	1.09	0.80	12.16	758,873.15	
305	7.2.26		3320.33	Stair Treads in Grating (308 mm by 914 mm), hot dip galvanized, Bent Checkered Plate Nosing, type "FLOWFORGE" by FISHER & LUDLOW or equal	each	1,624	1.588	128.23		208,237.40	118.93	16.33	9.47	144.72	235,033.38	
<b>Landings and Walkways, Hot dip Galvanized</b>																
306	7.2.27		3320.34	Gratings for Landings at Stairs, type 24-102, Bearing Bars (of approx. 32x4.8) by FISHER and LUDLOW or equal	kg	48,820	0.029	2.36		115,361.66	12.80	0.31	0.92	14.03	684,780.08	
307	7.2.28		3320.35	Bent Plate at Floor 15.5	kg	53,000	0.029	2.36		125,239.00	3.97	0.31	0.30	4.58	242,888.93	
308	7.2.29		3320.36	Steel Angle L102x102x7.9 at Floor 15.5	kg	2,400	0.029	2.36		5,671.20	5.03	0.31	0.37	5.72	13,723.39	

Exhibit 2 - Appendix A –Option 2 - FPTCL  
Schedule of Price Breakdown  
Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN							EXHIBIT 2 - APPENDIX A			
				ISSUED FOR: AGREEMENT DATE: 28-OCT-2013			CONTRACTOR'S NAME: ASTALDI CANADA INC.				505573-CH0007-51AF-I-2111 Rev. 10T			
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY of UNITS A	LABOUR COMPONENT			NON LABOUR COMPONENT				
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE				MAN HOURS (AT SITE) per UNIT	MANPOWER COST/ UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=(AxB)	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G= [D+E+F]	TOTAL PRICE (\$ CAD) H= A x G
<b>Steel Decking</b>														
309	7.2.30		3320.37	Roof Deck type RD 306 (t=0.91mm) by VICWEST, Galvanized Z 275 (Building roof and 10m door roof)	m²	8,250	0.362	28.40	234,333.00	112.63	13.00	8.79	134.42	1,108,954.69
310	7.2.31		3320.38	Roof Deck type RD 938 (t=0.76mm) by VICWEST, Galvanized Z 275 (mezzanine roof)	m²	1,640	0.362	28.40	46,582.56	109.21	13.00	8.55	130.77	214,459.37
310A	7.2.31A		3320.39	Roof Deck type RD 306 (t=1.22mm) VICWEST, Galvanized Z 275 (Main entrance roof)	m²	245	0.774	60.77	14,887.67	169.86	15.50	12.98	198.34	48,592.91
311	7.2.32		3320.40	Floor Deck type HB 306 (t=1.22 mm) by VICWEST, Galvanized Z 275 - Exterior (cover 3)	m²	1,550	0.774	60.77	94,187.30	169.86	15.50	12.98	198.34	307,424.54
311A	7.2.32A		3320.41	Floor Deck type HB 938 (t=0.91mm) by VICWEST, Galvanized Z 275 (Stair 10 roof)	m²	55	0.362	28.40	1,562.22	112.63	13.00	8.79	134.42	7,393.03
311B	7.2.32B		3320.42	Floor Deck type HB 306 (t=0.91mm) by VICWEST, Galvanized Z 275 (mezzanine floors)	m²	3,550	0.362	28.40	100,834.20	112.63	13.00	8.79	134.42	477,186.56
312	7.2.33		3320.43	Floor Deck type RD 306 (t=1.22 mm) by VICWEST, Galvanized Z 275 (Generator Floor)	m²	5,150	0.774	60.77	312,944.90	187.17	15.50	14.19	216.86	1,116,829.57
312A	7.2.33A		3320.44	Cladding CL508 (t=0.76mm) by VICWEST, Galvanized Z 275 (Cover C8)	m²	275	0.362	28.40	7,811.10	162.68	13.00	12.30	187.98	51,693.55
<b>Crane Rails Accessories</b>														
313	7.2.34		3320.45	Tie-Back Linkage Assemblies by GANTREX, type TL123GP, includes Plates, Angles, Shims, "O" Rings, Bolts and Permanent Lubrication	each	96	0.184	14.87	1,427.33	1,514.53	2.03	106.16	1,622.71	155,780.43
<b>Anchor Bolts</b>														
314	7.2.35		3320.46	Anchor Bolts Steel Grade 55 ASTM F1554 (Dia. 19 and 25 mm), U-Bolt assembly and Nuts A563, hot dip galvanized, by PORTLAND or equal	kg	5,960	0.058	4.71	28,089.48	2.68	0.61	0.23	3.52	20,980.99
315	7.2.36		3320.47	Anchor Bolts Steel Grade 55 ASTM F1554 (Dia. 28, 38 and 51 mm), Nuts A563, hot dip galvanized, by PORTLAND or equal	kg	22,800	0.058	4.71	107,456.40	3.21	0.61	0.27	4.09	93,217.12
<b>Guardrails in Pipes, Hot dip Galvanized</b>														
316	7.2.37		3320.48	Guardrails in Pipes for Mezzanine, Stairs and Covers, with Kick Plate, Posts in DN32 XS and Railings in DN32-Std (in miscellaneous and Structural Steel Drawings)	kg	47,250	0.064	5.14	242,912.25	12.97	0.66	0.95	14.59	689,300.96
317	7.2.38		3320.49	Guardrails of Intake Deck (W and HSS shapes)	kg	17,750	0.080	6.42	114,008.25	14.94	0.83	1.10	16.87	299,435.76
<b>Hilti Bolts</b>														
318	7.2.39		3320.50	Hilti KWIK Bolts 3 (Dia. 25 mm) 304 SS	each	525	0.000	0.03	17.33	32.82	0.00	2.30	35.12	18,438.88
319	7.2.40		3320.51	Hilti KWIK Bolts 3 (Dia. 10 mm and 19 mm) hot dip galvanized	each	630	0.000	0.02	12.60	6.63	0.00	0.46	7.10	4,472.65
320	7.2.41		3320.52	Hilti Adhesive Anchors, HAS rods (Dia. 19 mm) HIT RE-500 , hot dip galvanized	each	200	0.000	0.02	4.00	13.26	0.00	0.93	14.19	2,838.28
<b>Joists</b>														
321	7.2.42		3320.53	Steel Joists, by CANAM or equal	kg	2,100	0.058	4.71	9,897.30	6.86	0.61	0.52	7.99	16,776.10
<b>Elastomeric pad</b>														
322	7.2.43		3320.54	Elastomeric Pad at Attachment Axis E	each	40	0.330	26.46	1,058.32	82.55	3.18	6.00	91.73	3,669.33
<b>Intumescent Paint (for application on Steel Beams and Columns)</b>														
322A	7.2.43A		3320.55	Intumescent Paint	m²	3,550	3.017	236.94	841,119.25	185.19	0.13	12.97	198.29	703,930.42
<b>MISCELLANEOUS STEEL</b>														
<b>Miscellaneous Structural Steel, Hot dip Galvanized</b>														
323	7.2.44		3320.56	Miscellaneous Structural Steel - Embedded	kg	104,968	0.040	3.22	337,682.06	8.67	0.42	0.64	9.73	1,020,837.94
324	7.2.45		3320.57	Miscellaneous Structural Steel, L Shapes, Plates, Eye bolts, Crosby Type Pieces, Bent Plates and W shapes in miscellaneous steel section drawings	kg	189,908	0.058	4.71	895,036.40	9.00	0.61	0.67	10.29	1,953,579.80
325	7.2.46		3320.58	Checkered Plates	kg	102,014	0.016	1.29	132,006.12	6.25	0.17	0.45	6.88	701,648.21
326	7.2.47		3320.59	Embedded angles related to typical detail for stel deck on dwg : MFA-SN-CD-3320-ST-DD-0005-01	kg	832	0.040	3.22	2,676.54	8.92	0.42	0.65	9.99	8,315.73
327	7.2.48		3320.60	Contraction joint related to section E-E on the drawing : MFA-SN-CD-3300-CV-DD-0003-01	m	40	0.267	21.14	845.56	20.99	0.13	1.48	22.60	903.85
328	7.2.49		3320.61	Contraction joint related to section F-F on the drawing: MFA-SN-CD-3300-CV-DD-0003-01	m	50	0.267	21.14	1,056.95	25.89	0.13	1.82	27.84	1,391.96
329	7.2.50		3320.62	Contraction joint related to section K-K on the drawing: MFA-SN-CD-3300-CV-DD-0003-01	m	122	0.267	21.14	2,578.96	28.54	0.13	2.01	30.67	3,742.32
<b>Miscellaneous Stainless steel</b>														
330	7.2.51		3320.63	Miscellaneous Stainless Steel for MK1, MK2 and Covers C9, C10, C11 and C11A	kg	4,721	0.132	10.70	50,499.03	13.20	1.37	1.02	15.59	73,597.72
<b>Crane Rails, rust preventive coating</b>														
331	7.2.52		3320.64	Rail type BETH 175, includes Splices and Aluminothermic Welds, for Crane Girders and for Trash Cleaner	m	720	1.391	112.35	80,894.16	349.24	15.14	25.51	389.89	280,718.35
332	7.2.53		3320.65	Rail type Beth 104 with Aluminothermic Welds	m	315	0.827	66.78	21,036.65	175.30	9.00	12.90	197.21	62,120.00
<b>Crane Rails Accessories</b>														
333	7.2.54		3320.66	GANTREX Rail Clip type WELDLOK 43 with Rubber Nosing for Crane Girders and Trash Cleaner	each	2,160	0.056	4.55	9,830.16	46.95	0.63	3.33	50.91	109,962.27
334	7.2.55		3320.67	GANTREX rail clip type WELDLOK 24 with Rubber Nosing, hot dip galvanized	each	1,060	0.015	1.18	1,253.98	22.88	0.16	1.61	24.66	26,135.37
<b>Ladders, Hot dip Galvanized</b>														
335	7.2.56		3320.68	Ladders with or without Cage, and Self-Closing Gates (in miscellaneous and structural steel drawings)	kg	15,000	0.053	4.29	64,290.00	5.32	0.56	0.41	6.28	94,229.55
<b>Plates, Painted / Hot dip Galvanized</b>														
336	7.2.57		3320.69	Plates 350 x 20, Under Rails BETH 175, Painted with Primer Plates 300 x 20 Under Rails BETH 175, hot dip galvanized	kg	35,500	0.066	5.35	190,067.00	7.89	0.69	0.60	9.18	325,797.35
<b>Landings, Walkways and Covers, Hot dip Galvanized</b>														
337	7.2.58		3320.70	All types of grating not covered in price item 305 (ref 7.2.26) and price item 306 (ref 7.2.27) (in miscellaneous and structural steel drawings)	kg	81,748	0.066	5.35	437,678.79	6.44	0.69	0.50	7.63	624,013.55
338	7.2.59		3320.71	Grating at EL 45.5 on Intake Deck, Special Order	kg	0	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Exhibit 2 - Appendix A –Option 2 - FPTCL  
 Schedule of Price Breakdown  
 Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN							EXHIBIT 2 - APPENDIX A				
				ISSUED FOR: AGREEMENT DATE: 28-OCT-2013			CONTRACTOR'S NAME: ASTALDI CANADA INC.				505573-CH0007-51AF-I-2111 Rev. 10T				
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY of UNITS A	MAN HOURS (AT SITE) per UNIT	LABOUR COMPONENT			NON LABOUR COMPONENT				
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE					MANPOWER COST/ UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=(AxB)	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G=(D+E+F)	TOTAL PRICE (\$ CAD) H= A x G	
<b>ARCHITECTURE WORKS</b>															
<b>METAL CLADDING &amp; ROOFING</b>															
339	7.2.60		3320.72	Insulated Metal Wall Panels (Sandwiched Panels. VicWest & Kingspan; refer to them as Composite Metal Building Panels)	m²	7,323	2,919	233.17	1,707,467.30	210.81	67.29	19.47	297.56	2,179,028.29	
340	7.2.61		3320.73	Preformed Metal Siding (Vertical Metal Siding fastened to Steel Stud Wall)	m²	508	3,473	276.68	140,554.96	159.91	21.16	12.68	193.75	98,425.67	
341	7.2.62		3320.74	Preformed Metal Siding & Framing (for Snow Baffles over louvers)	m²	112	3,473	276.68	30,988.50	148.99	21.16	11.91	182.07	20,391.50	
342	7.2.63		3320.75	Metal Liner Panel, Insulation & Z-Bars (attached to interior of pre-cast concrete fire wall)	m²	460	2,919	233.17	107,255.90	229.14	87.29	22.15	338.58	155,745.86	
343	7.2.64		3320.76	Modified Bituminous Membrane Roofing System	m²	8,416	0.221	17.87	150,377.09	327.85	2.32	23.11	353.28	2,973,220.47	
344	7.2.65		3320.77	Sealants (including for roofing & wall systems and pre-cast concrete fire wall joints)	LS	1	639.876	51,666.28	51,666.28	14,350.84	6,715.50	1,474.64	22,540.98	22,540.98	
345	7.2.66		3320.78	Signage (Nalcor & Logo, Muskrat Falls Generating Station)	LS	1	195.178	15,759.51	15,759.51	4,819.86	2,048.39	480.78	7,349.03	7,349.03	
346	7.2.67		3320.79	Roof Curb for Exhaust Fans	each	9	13.277	1,072.08	9,648.68	1,242.08	139.35	96.70	1,478.13	13,303.13	
347	7.2.68		3320.80	Roof Curb for Exhaust Hood	each	1	13.277	1,072.08	1,072.08	1,870.36	139.35	140.68	2,150.38	2,150.38	
348	7.2.69		3320.81	Roof Curb for Chimney	each	1	13.277	1,072.08	1,189.39	139.35	93.01	1,421.75	1,421.75		
349	7.2.70		3320.82	Flashing for Roof Drains	each	25	1.593	128.65	3,216.23	254.77	16.72	19.00	7,262.44	7,262.44	
350	7.2.71		3320.83	Flashing for Plumbing Vents	each	6	1.593	128.65	771.89	166.97	16.72	12.86	196.55	1,179.25	
<b>OPENINGS</b>															
351	7.2.72		3320.84	Exterior Metal Insulated Doors - Double	each	7	7,966	643.25	4,502.72	1,157.65	83.61	86.89	9,297.04	9,297.04	
352	7.2.73		3320.85	Exterior Metal Insulated Doors - Single	each	14	5,311	428.83	6,003.62	919.84	55.74	68.29	1,043.87	14,614.20	
353	7.2.74		3320.86	Aluminium Entrance Door (Insulated)	each	1	7,966	643.25	6,432.50	1,902.69	83.64	139.04	2,125.34	2,125.34	
354	7.2.75		3320.87	Sectional Metal Insulated Door	each	2	26,555	2,144.15	4,288.30	8,221.80	278.69	595.03	9,095.53	18,191.06	
355	7.2.76		3320.88	Aluminium Windows (32 Windows max)	m²	154	5,311	428.83	66,039.82	1,635.61	55.74	118.39	1,809.75	278,701.15	
356	7.2.77		3320.89	Concrete Unit Masonry ( Exterior)	m²	21	5,311	428.83	9,005.43	429.66	55.74	33.98	519.37	10,906.80	
<b>FIRE &amp; SAFETY ITEMS</b>															
357	7.2.78		3320.90	Roof Anchors & Safety Restraints	each	45	6,639	536.04	24,121.71	476.67	69.67	38.24	584.59	26,306.46	
<b>SPECIAL DOORS</b>															
358	7.2.79		3320.91	Multi-Leaf Vertical Lift Metal Insulated Door	each	1	5,311	428.83	428.83	2,938.65	55.74	209.61	3,204.00	3,204.00	
<b>ELECTRICAL WORK</b>															
<b>EXTERIOR BUILDING LIGHTING</b>															
358A	7.2.80		3320.92	Exterior lighting fixtures, HPS, 347 V AC, complete with conduit, junction box, wiring and JB mounting plates	each	23	51,000	4,977.60	114,484.80	3,944.04	650.00	321.58	4,915.62	113,059.23	
<b>ROOF METAL SLEEVE</b>															
358B	7.2.81		3320.93	Metal sleeves for cable passage for roof exhaust fans	each	9	9,500	927.20	8,344.80	615.65	110.00	50.80	776.45	6,988.03	
<b>SLEEVE IN METAL SIDING WALL OF THE POWERHOUSE</b>															
358C	7.2.82		3320.94	Sleeve in metal siding wall complete with conduit, junction box and JB mounting plates as per detail 1 on DWG MFA-SN-CD-3340-EL-EL-0001-02	each	13	10,000	976.00	12,688.00	835.33	100.00	65.47	1,000.81	13,010.50	
358D	7.2.83		3320.95	Sleeve in metal siding wall on the right jamb of the multi-leaf door complete with conduit, junction box and JB mounting plates as per detail 2 on DWG MFA-SN-CD-3340-EL-EL-0001-02	each	1	20,000	1,952.00	1,952.00	1,265.78	100.00	95.60	1,461.38	1,461.38	
<b>SUB-TOTAL POWERHOUSE - SUPERSTRUCTURE</b>										<b>\$ 13,851,099.86</b>				<b>\$ 43,018,035.50</b>	
<b>TURBINE GENERATOR AND ANCILLARIES</b>															
<b>ELECTRICAL WORK</b>															
359	8.1.1	3400	3430	Exothermic Connections	each	1225	2,400	234.24	286,944.00	146.48	0.00	10.25	156.74	192,002.59	
359A	8.1.1A		3430.02	Mechanical Connections	each	40	2,300	224.48	8,979.20	211.64	0.00	14.81	226.46	9,058.23	
360	8.1.2		3430.03	Embedded Copper Grounding Plates	each	65	4,000	390.40	25,776.00	453.87	0.00	31.77	485.64	31,566.80	
361	8.1.3		3430.04	Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 500 kcmil	m	5200	0.414	40.42	210,163.20	60.28	0.00	4.22	64.50	335,392.36	
362	8.1.4		3430.05	Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 4/0 AWG	m	1800	0.224	21.88	39,384.00	27.71	0.00	1.94	29.65	53,373.31	
362A	8.1.4A		3430.06	Rigid PVC Conduit, size 53mm	m	15	2,000	195.20	2,928.00	108.25	0.00	7.58	115.82	1,737.35	
363	8.1.5		3430.07	Rigid PVC Conduit, size 78mm	m	500	1,050	102.48	5,124.00	75.29	0.00	5.27	80.56	4,028.12	
364	8.1.6		3430.08	Rigid PVC Conduit, size 129mm	m	325	2,200	214.72	69,784.00	155.89	25.00	12.66	193.55	62,903.80	
365	8.1.7		3430.09	Rigid Galvanized Steel Conduits, size 103 mm	m	100	5,400	527.04	52,704.00	95.00	30.00	8.75	133.75	13,375.00	
366	8.1.8		3430.10	High Bay Light Fixture, Metal Halide, 347 Vac, complete with 1000 W lamp	each	46	21,850	2,132.56	98,097.76	1,933.80	0.00	135.37	2,069.17	95,181.73	
367	8.1.9		3430.11	High Bay Light Fixture, Metal Halide, 347 Vac, complete with 1000 W lamp and Quartz auxiliary lamp	each	23	22,604	2,206.13	50,741.06	1,961.94	0.00	137.34	2,099.27	48,283.27	
368	8.1.10		3430.12	Panelboard, 600/347 Vac, 3 phase, 4 wire, 42 circuit, surface mounted sprinkler-proof enclosure, complete with breakers as indicated	each	3	35,000	3,416.00	10,248.00	6,037.77	0.00	422.64	6,460.42	19,381.25	
369	8.1.11		3430.13	Dry-Type Transformer, 75 kVA, 600-600/347 Vac	each	3	39,087	3,814.93	11,444.80	9,117.28	0.00	638.21	9,755.49	29,266.46	
370	8.1.12		3430.14	Disconnect Switch, 600 V, 3 phase, complete with fuses	each	3	12,322	1,202.63	3,607.88	1,581.01	0.00	110.67	1,691.68	5,075.03	
371	8.1.13		3430.15	Lighting Contactor Control Panel	each	2	16,063	1,567.74	3,135.48	2,437.34	0.00	170.61	2,607.95	5,215.90	
372	8.1.14		3430.16	ON-OFF Pushbutton Control Station	each	4	11,377	1,110.35	4,441.39	1,039.28	0.00	72.75	1,112.03	4,448.13	
373	8.1.15		3430.17	Teck Cables, 2C # 12 AWG	m	900	0.204	19.89	17,901.90	17.63	0.00	1.23	18.87	16,981.54	
374	8.1.16		3430.18	Teck Cables, 3C # 12 AWG	m	500	0.221	21.56	10,779.00	18.71	0.00	1.31	20.02	10,008.78	
375	8.1.17		3430.19	Teck Cables, 2C # 10 AWG	m	400	0.221	21.56	8,623.20	19.78	0.00	1.38	21.16	8,465.84	
376	8.1.18		3430.20	Teck Cables, 4C # 10 AWG	m	500	0.272	26.51	13,255.00	25.06	0.00	1.75	26.81	13,404.95	
377	8.1.19		3430.21	Temporary Feeder Cables to lighting transformers/panelboards, etc.	LS	1	61,789	6,030.64	6,030.64	4,421.97	0.00	309.54	4,731.51	4,731.51	
<b>SUB-TOTAL POWERHOUSE - ELECTRICAL WORK</b>										<b>\$ 939,692.50</b>				<b>\$ 963,881.97</b>	

Exhibit 2 - Appendix A –Option 2 - FPTCL  
Schedule of Price Breakdown  
Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN							EXHIBIT 2 - APPENDIX A				
				ISSUED FOR: AGREEMENT DATE: 28-OCT-2013			CONTRACTOR'S NAME: ASTALDI CANADA INC.				505573-CH0007-51AF-I-2111 Rev. 10T				
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY of UNITS A	LABOUR COMPONENT			NON LABOUR COMPONENT					
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE				MAN HOURS (AT SITE) per UNIT	MANPOWER COST/ UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=(AxB)	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G= (D+E+F)	TOTAL PRICE (\$ CAD) H= A x G	
<b>8.2</b>				<b>3440</b>	<b>MECHANICAL WORK</b>										
378	8.2.1		3351	<b>HVAC System</b>	LS	1	2,164.000	187,556.04	187,556.04	845,720.64	33,000.00	61,510.44	940,231.08	940,231.08	
			3351.01	Pipe and Fittings NPS 6, Piping Specification PA03	m	86									
			3351.02	Pipe and Fittings NPS 21, Piping Specification PA03	m	81									
			3351.03	Pipe and Fittings NPS 24, Piping Specification PA03	m	101									
			3351.04	HVAC Louvers	LS	1									
379	8.2.2		3352	<b>Domestic Wastewater System</b>	LS	1	9,218.000	798,933.28	798,933.28	1,415,813.91	253,100.00	116,823.97	1,785,737.88	1,785,737.88	
			3352.01	Pipe and Fittings NPS 3, Piping Specification PA04 (HDPE-DR11)	m	900									
			3352.02	Equipments and Other Components	LS	1									
			3352.03	Miscellaneous Work (Painting, Insulation etc.)	LS	1									
380	8.2.3		3353	<b>Wastewater System</b>	LS	1	1,820.000	157,741.22	157,741.22	873,501.11	55,000.00	64,995.08	993,496.19	993,496.19	
			3353.01	Pipe and Fittings NPS 1 1/2, Piping Specification PA01	m	2									
			3353.02	Pipe and Fittings NPS 2, Piping Specification PA01	m	2									
			3353.03	Pipe and Fittings NPS 3, Piping Specification PA01	m	10									
			3353.04	Pipe and Fittings NPS 4, Piping Specification PA01	m	29									
			3353.05	Pipe and Fittings NPS 3, Piping Specification PA04 (HDPE-DR11)	m	160									
			3353.06	Flexible corrugated perforated HDPE Pipe NPS 4, covered With A Geotextile	m	100									
			3353.07	NPS 4, PERFORATED SOLVENT WELD SEWER PIPE CERTIFIED: CSA B182.1 AND BNQ NQ3624-050	m	250									
			3353.08	NPS 4, SOLVENT WELD SEWER PIPE CERTIFIED: CSA B182.1	m	35									
			3353.09	Septic Tile Field	LS	1									
			3353.10	Roof vent	each	2									
			3353.11	Equipments and Other Components	LS	1									
			3353.12	Miscellaneous Work (Painting, Insulation etc.)	LS	1									
381	8.2.4		3441	<b>Low Pressure Compressed Air System</b>	LS	1	235.000	20,367.69	20,367.69	121,060.17	30,000.00	10,574.21	161,634.38	161,634.38	
			3441.01	Pipe and Fittings NPS 2, Piping Specification SB11	m	49									
			3441.02	Miscellaneous Work (Painting, Insulation etc.)	LS	1									
382	8.2.5		3443	<b>Fire Protection System</b>	LS	1	917.000	79,477.31	79,477.31	129,850.75	60,000.00	13,289.55	203,140.31	203,140.31	
			3443.01	Pipe and Fittings NPS 8, Piping Specification CB12	m	10									
			3443.02	Pipe and Fittings NPS 10, Piping Specification CB12	m	60									
			3443.03	Pipe and Fittings NPS 2 1/2, Piping Specification SB12	m	37									
			3443.04	Pipe and Fittings NPS 4, Piping Specification SB12	m	2									
			3443.05	Miscellaneous Work (Painting, Insulation etc.)	LS	1									
383	8.2.6		3444	<b>Clear Water Drainage System</b>	LS	1	18,499.200	1,603,344.16	1,603,344.16	1,934,632.68	456,360.00	167,369.49	2,558,362.17	2,558,362.17	
			3444.01	Pipe and Fittings NPS 3, Piping Specification PA01	m	3									
			3444.02	Pipe and Fittings NPS 4, Piping Specification PA01	m	121									
			3444.03	Pipe and Fittings NPS 6, Piping Specification PA01	m	330									
			3444.04	Pipe and Fittings NPS 8, Piping Specification PA02	m	664									
			3444.05	Pipe and Fittings NPS 2, Piping Specification CB11	m	79									
			3444.06	Pipe and Fittings NPS 3, Piping Specification CB11	m	420									
			3444.07	Pipe and Fittings NPS 4, Piping Specification CB11	m	1,146									
			3444.08	Pipe and Fittings NPS 6, Piping Specification CB11	m	875									
			3444.09	Pipe and Fittings NPS 8, Piping Specification CB11	m	149									
			3444.10	Pipe and Fittings NPS 10, Piping Specification CB11	m	139									
			3444.11	Pipe and Fittings NPS 12, Piping Specification CB11	m	130									
			3444.12	Pipe and Fittings NPS 16, Piping Specification CB11	m	19									
			3444.13	Pipe and Fittings NPS 24, Piping Specification CB11	m	20									
			3444.14	Equipments and Other Components	LS	1									
			3444.15	Miscellaneous Work (Painting, Insulation etc.)	LS	1									
			3444.16	Roof drains and accessories	each	32									
384	8.2.7		3445	<b>Dewatering System</b>	LS	1	9,009.000	780,819.04	780,819.04	1,260,888.84	330,000.00	111,362.22	1,702,251.06	1,702,251.06	
			3445.01	Pipe and Fittings NPS 3/4, Piping Specification SB11	m	1									
			3445.02	Pipe and Fittings NPS 1, Piping Specification SB11	m	3									
			3445.03	Pipe and Fittings NPS 2, Piping Specification SB11	m	12									
			3445.04	Pipe and Fittings NPS 4, Piping Specification CB11	m	32									
			3445.05	Pipe and Fittings NPS 8, Piping Specification CB11	m	33									
			3445.06	Pipe and Fittings NPS 12, Piping Specification CB11	m	242									
			3445.07	Pipe and Fittings NPS 20, Piping Specification CB11	m	235									
			3445.08	Pipe and Fittings NPS 24, Piping Specification CB11	m	110									
			3445.09	Pipe and Fittings NPS 30, Piping Specification CB11	m	39									
			3445.10	Equipment and Other Components	LS	1									
			3445.11	Miscellaneous Work (Painting, Insulation etc.)	LS	1									
385	8.2.8		3447	<b>Oil/Water Drainage System</b>	LS	1	3,721.000	322,502.79	322,502.79	443,849.32	252,000.00	48,709.45	744,558.77	744,558.77	
			3447.01	Pipe and Fittings NPS 3, Piping Specification CB11	m	9									
			3447.02	Pipe and Fittings NPS 4, Piping Specification CB11	m	6									
			3447.03	Pipe and Fittings NPS 6, Piping Specification CB11	m	30									
			3447.04	Pipe and Fittings NPS 8, Piping Specification CB11	m	19									
			3447.05	Pipe and Fittings NPS 14, Piping Specification CB11	m	70									
			3447.06	Pipe and Fittings NPS 16, Piping Specification CB11	m	146									
			3447.07	Equipments and Other Components	LS	1									
			3447.08	Miscellaneous Work (Painting, Insulation etc.)	LS	1									
386	8.2.9		3448	<b>Raw and Cooling Water System</b>	LS	1	2,101.250	182,117.44	182,117.44	265,621.46	50,200.00	22,107.50	337,928.97	337,928.97	
			3448.01	Pipe and Fittings NPS 14, Piping Specification CB11	m	243									

Exhibit 2 - Appendix A –Option 2 - FPTCL  
Schedule of Price Breakdown  
Agreement No: CH0007-001

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				SCHEDULE OF PRICE BREAKDOWN							EXHIBIT 2 - APPENDIX A 505573-CH0007-51AF-I-2111 Rev. 10T			
ISSUED FOR: AGREEMENT				DATE: 28-OCT-2013				CONTRACTOR'S NAME: ASTALDI CANADA INC.						
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY OF UNITS A	MAN HOURS (AT SITE) per UNIT	MANPOWER COST/ UNIT (\$ CAD) B	COST OF LABOUR (\$CAD) C=(AxB)	MATERIALS COST/UNIT (\$ CAD) D	EQUIPMENT COST/UNIT (\$ CAD) E	PROFIT and OTHER/UNIT (\$ CAD) F	UNIT PRICE (\$ CAD) G= (D+E+F)	TOTAL PRICE (\$ CAD) H= A x G
No	REFERENCE EXH. 2 - ATT 1	CODE	SUBCODE											
387	8.2.10	3449	Service Water System	LS	1	1,642,000		142,313.78	142,313.78	409,384.69	174,000.00	40,836.93	624,221.61	624,221.61
		3449.01	Pipe and Fittings NPS 4, Piping Specification PA04 (HDPE-DR11)	m	880									
		3449.02	Pipe and Fittings NPS 6, Piping Specification CB11	m	60									
		3449.03	Pipe and Fittings NPS 8, Piping Specification CB11	m	67									
		3449.04	Pipe and Fittings NPS 3/4, Piping Specification SB11	m	36									
		3449.05	Pipe and Fittings NPS 2, Piping Specification SB11	m	66									
		3449.06	Pipe and Fittings NPS 4, Piping Specification SB11	m	27									
		3449.07	Equipments and Other Components	LS	1									
		3449.08	Miscellaneous Work (Painting, Insulation etc.)	LS	1									
388	8.2.11	344C	Piezometer and Water Level System	LS	1	15,346,000		1,330,053.17	1,330,053.17	1,654,021.79	157,000.00	126,771.53	1,937,793.32	1,937,793.32
		344C.01	Pipe and Fittings NPS 8, Piping Specification SA11	m	55									
		344C.02	Pipe and Fittings NPS 3, Piping Specification SB11	m	1,924									
		344C.03	Pipe and Fittings NPS 1/2, Piping Specification ID01	m	1,924									
SUB-TOTAL POWERHOUSE - MECHANICAL WORKS									\$ 5,605,225.91					\$ 11,989,355.74
9 3500 WORK EXECUTED FOR COMPANY'S OTHER CONTRACTOR														
9.1 3510 Supply of Concrete to Company's Other Contractors at the Batch Plant (excluding delivery from the Batch Plant to the Pour Location)														
389	9.1.1	3510.01	Supply of Secondary Concrete - Class A2	m³	7,500	1.18	94.74	710,580.00	179.00	22.69	14.12	215.81	1,618,538.18	
390	9.1.2	3510.02	Supply of Concrete - Class A	m³	1,000	1.18	94.74	94,744.00	179.00	22.69	14.12	215.81	215,805.09	
391	9.1.3	3510.03	Supply of Concrete - Class B	m³	14,500	1.18	94.74	1,373,788.00	159.60	22.69	12.76	195.05	2,828,260.38	
SUB-TOTAL SUBCONTRACTING WORKS FOR OTHERS								\$ 2,179,112.00					\$ 4,662,603.65	
391A DISCOUNT PER MEETING OF 14TH SEPTEMBER														
Discount as per the Minutes of Meeting dated 14 September 2013 between Astaldi Canada Inc. and Nalcor Energy								\$ (40,000,000.00)					NA	
								\$ (40,000,000.00)					NA	
(I) - TARGET COST OF LABOUR FOR THE WORK (BASED ON APPROXIMATE QUANTITIES), AS DETAILED IN PRICE ITEMS 1 TO 391A								\$ 507,598,340.87						
(J) - LABOUR PROFIT ON TARGET COST OF LABOUR = (BIDDER'S FACTOR, AS SUBMITTED IN SECTION 1.2.1 OF BIDDER'S PROPOSAL FORM LETTER) X (I)								\$ 35,531,883.86						
(K) - TOTAL ESTIMATED PRICE FOR LABOUR COMPONENT = (I) + (J)								\$ 543,130,224.73						
(L) - ESTIMATE OF TRAVEL ALLOWANCES - TRADES LABOUR (PRICE ITEM 19A)													29,057,891.00	
(M) - TOTAL LUMP SUMS AND EXTENDED UNIT PRICES FOR NON LABOUR COMPONENT, AS DETAILED IN PRICE ITEMS 1 TO 391, EXCLUDING PRICE ITEM 19A													\$ 452,104,434.08	
(N) - TOTAL ESTIMATED CONTRACT PRICE - (K) + (L) + (M), TAXES EXCLUDED									\$ 1,024,292,549.81					
10 3600 MISCELLANEOUS - RATE ONLY														
392	10.1.1	3610	Hilti Adhesive Anchors											N/A
		3610.01	Hilti adhesive anchors, HIT RE-500; HAS rods (Dia. 16 mm), hot dip galvanized	each	100									N/A
393	10.1.2	3610.02	Hilti adhesive anchors, HIT RE-500; HAS rods (Dia. 19 mm), hot dip galvanized	each	100									N/A
394	10.1.3	3610.03	Hilti adhesive anchors, HIT RE-500; HAS rods (Dia. 25 mm), hot dip galvanized	each	100									N/A
10.2 3620 Precast Sandwich-Insulated Panel														
395	10.2.1	3620.01	Precast Sandwich-Insulated Panel	m³	2,520									N/A
10.3 3630 Delivery of Concrete to Company's Other Contractors from the Batch Plant to the Pour Location														
396 10.3.1 3631 Hourly rates for different volumes of Concrete delivered to Company's Other Contractors from the Batch Plant to the Pour Location														
		3631.01	Delivery of 5 m³ of concrete with concrete truck	hour	N/A									N/A
		3631.02	Delivery of 7.5 m³ of concrete with concrete truck	hour	N/A									N/A
		3631.03	Delivery of 10 m³ of concrete with concrete truck	hour	N/A									N/A
FOR THE LOWER CHURCHILL PROJECT - MUSKRAT FALLS														
This Appendix forms part of the Proposal submitted by:														
Name of Bidder:														
Request For Proposal no: 505573-CH0007														
Signature:														
Date of Proposal:														
Note 1: The quantities inserted by the Engineer are meant to indicate the order of magnitude of the requirements, the Bidder remains responsible for the quantities actually needed and to make any necessary revisions. Any modification request to the Lump Sum price, after Contract award, based on these information will not be considered.														
Note 2: If there has been an error in the calculation to establish the total of Column C (Cost of Labour) or of Column H (Total Price), then the figures of the Column B (Manpower Cost/Unit) and Column G (Unit Price) and A (Estimated Quantity) shall prevail.														
Note 3: This Document is provided to the bidders in Native Excel File format. It is the bidders responsibility to verify cell formats and formulas.														



**EXHIBIT 2 - APPENDIX B**  
**MONTHLY PAYMENT FORECAST SCHEDULE**

Exhibit 2 - Appendix B –Option 2 - FPTCL  
 Monthly Payment Forecast Schedule  
 Agreement No: CH0007-001

**Monthly Payment Forecast Schedule**

Month	Work Progress (1 month lag)	LNTP	LNTP Holdback	Travel allowances	Advance payment	Advance payment repayment	Net Payment
1-Sep-13	-	-	-	-	15,000,000	-	15,000,000
1-Oct-13	-	1,895,033	-	-	-	-	1,895,033
1-Nov-13	-	5,008,895	-	-	87,429,255	-	92,438,150
1-Dec-13	12,852,514	-	690,393	729,929	-	-	14,272,836
1-Jan-14	12,222,881	-	-	175,368	-	-	12,398,249
1-Feb-14	12,183,051	-	-	386,195	-	-	12,569,246
1-Mar-14	13,670,407	-	-	457,092	-	-	14,127,498
1-Apr-14	19,083,040	-	-	782,009	-	-	19,865,049
1-May-14	20,803,621	-	-	859,052	-	-	21,662,674
1-Jun-14	29,109,581	-	-	1,181,133	-	-	30,290,714
1-Jul-14	29,665,431	-	-	941,873	-	-	30,607,304
1-Aug-14	27,023,845	-	-	1,005,064	-	-	28,028,909
1-Sep-14	26,287,446	-	-	967,303	-	928,863	26,325,887
1-Oct-14	25,801,435	-	-	941,505	-	4,459,825	22,283,115
1-Nov-14	26,010,940	-	-	951,819	-	4,496,038	22,466,720
1-Dec-14	24,509,490	-	-	870,555	-	4,236,510	21,143,536
1-Jan-15	26,852,014	-	-	992,142	-	4,641,419	23,202,737
1-Feb-15	26,716,660	-	-	985,089	-	4,618,023	23,083,726
1-Mar-15	24,348,064	-	-	860,767	-	4,208,607	21,000,223
1-Apr-15	26,823,514	-	-	991,041	-	4,636,493	23,178,062
1-May-15	27,881,452	-	-	1,047,331	-	4,819,360	24,109,423
1-Jun-15	29,304,821	-	-	1,122,281	-	5,065,391	25,361,710
1-Jul-15	30,114,266	-	-	1,165,414	-	5,205,306	26,074,374
1-Aug-15	26,840,805	-	-	992,045	-	4,639,482	23,193,368
1-Sep-15	25,018,274	-	-	895,693	-	4,324,454	21,589,513
1-Oct-15	24,402,778	-	-	863,667	-	4,218,064	21,048,380
1-Nov-15	24,895,701	-	-	889,729	-	4,303,267	21,482,162
1-Dec-15	20,783,101	-	-	672,099	-	3,592,397	17,862,803
1-Jan-16	17,388,026	-	-	492,545	-	3,005,552	14,875,019
1-Feb-16	17,649,134	-	-	506,558	-	3,050,685	15,105,008
1-Mar-16	17,544,958	-	-	501,407	-	3,032,678	15,013,686
1-Apr-16	14,819,248	-	-	360,258	-	2,561,534	12,617,972
1-May-16	14,088,578	-	-	321,737	-	2,435,236	11,975,079
1-Jun-16	16,440,218	-	-	445,531	-	2,841,722	14,044,028
1-Jul-16	16,350,310	-	-	440,767	-	2,826,181	13,964,896
1-Aug-16	16,534,192	-	-	450,850	-	2,857,965	14,127,077
1-Sep-16	14,987,640	-	-	368,561	-	2,590,641	12,765,559
1-Oct-16	14,107,966	-	-	322,000	-	2,438,588	11,991,379
1-Nov-16	15,472,588	-	-	393,962	-	2,674,465	13,192,085
1-Dec-16	15,510,879	-	-	395,964	-	2,681,084	13,225,760
1-Jan-17	15,760,841	-	-	409,163	-	1,039,427	15,130,577
1-Feb-17	15,710,251	-	-	406,629	-	-	16,116,881
1-Mar-17	13,659,920	-	-	298,627	-	-	13,958,547
1-Apr-17	12,478,564	-	-	236,016	-	-	12,714,580
1-May-17	8,664,912	-	-	34,642	-	-	8,699,554
1-Jun-17	7,620,783	-	-	32,525	-	-	7,653,309
1-Jul-17	9,584,418	-	-	136,099	-	-	9,720,517
1-Aug-17	8,746,580	-	-	91,972	-	-	8,838,551
1-Sep-17	8,655,081	-	-	87,105	-	-	8,742,186
1-Oct-17	7,850,270	-	-	44,852	-	-	7,895,122
1-Nov-17	7,404,856	-	-	21,198	-	-	7,426,054
1-Dec-17	7,837,211	-	-	43,714	-	-	7,880,925
1-Jan-18	8,090,627	-	-	57,001	-	-	8,147,628
1-Feb-18	8,047,014	-	-	54,687	-	-	8,101,701
1-Mar-18	7,993,000	-	-	51,662	-	-	8,044,661
1-Apr-18	9,088,472	-	-	106,007	-	-	9,194,478
1-May-18	8,968,604	-	-	99,846	-	-	9,068,451
1-Jun-18	9,034,069	-	-	103,175	-	-	9,137,243
1-Jul-18	7,331,991	-	-	16,641	-	-	7,348,632
1-Aug-18	7,004,668	-	-	-	-	-	7,004,668
1-Sep-18	7,004,668	-	-	-	-	-	7,004,668
1-Oct-18	7,004,668	-	-	-	-	-	7,004,668
<b>Totals</b>	<b>987,640,339</b>	<b>6,903,928</b>	<b>690,393</b>	<b>29,057,891</b>	<b>102,429,255</b>	<b>102,429,255</b>	<b>1,024,292,551</b>

Notes:

- 1) This monthly payment forecast schedule serves to provide an appreciation of payment flow throughout the period of the work. Actual payment shall be in accordance with Article 12 and Exhibit 2
- 2) The forecast does not include for escalation of material.

**EXHIBIT 2 - APPENDIX C**  
**SMALL TOOLS, CONSUMABLES AND PPE**

For reimbursable Change Order Work only (i.e., Section 5 of this Exhibit 2), a cost of \$2.30 per hour will be added to reimbursable trade labour rates for small tools, consumables and personnel protective equipment (PPE).

The following lists include, but are not limited to, items that Company classifies as "Personal Protective Equipment", "Consumables", and "Small Tools", whether recoverable or non-recoverable.

## 1. PERSONAL PROTECTIVE EQUIPMENT

All personal protective equipment shall meet the requirements of Occupational Health and Safety Regulations.

APRON, WELDERS	HALF FACE or FULL FACE RESPIRATOR WITH CARTRIDGES – ALL TYPES
BELT, SAFETY	HARD HAT
BLANKET, FIRE	HEARING PROTECTION
BLOCK, WELDING HELMET	HOOD, WELDING
BOOT, SAFETY, ALL TYPES	INSECTICIDE
BRACKET, FOR FACE SHIELD	LANYARD FOR SAFETY BELTS
BRACKET, FIBER BROW, SAFETY SHIELD	LENS, WELDING
CAPS, PLASTIC SAFETY (FOR REBAR)	LIFE LINE
CURTAIN, WELDER	LOCKS
DUST MASK	MOUNTING VISOR AND KWIK-KLIP
DISPOSABLE MASK	PULLER, FUSE SAFETY
EYESHIELD, FOR BENCH GRINDER	RAIN WEAR, JACKET AND OVERALLS
FIRST AID SUPPLIES	SAFETY HARNESS
FLARE, ROAD, NON-ELECTRIC	SIREN, ELECTRIC
GLASSES, SAFETY	STRAP, CHIN
GLOVES, WORK, ALL TYPES	SWEAT BANDS
GOGGLES, SAFETY	TABLET, SALT
GUARDS, SHIN	VISOR, SHIELD, CLEAR
GUARDS, TOE, METAL W/STRAP	WELDING SHIELDS

**2. CONSUMABLES**

ABRASIVES	EXPANDER, TUBEROLLS	AND	PAD, POLISHING	WASHERS
ACID	MANDRELS		PADLOCKS	WASHING POWDER
ADAPTORS, TOOL – all types	FASTENERS		PAINT (for erection marking)	WASHROOM SUPPLIES
ADHESIVE	FEELER STOCK		PAINT STICK	WASTE – Cotton
ALCOHOL	FILE, METAL CUTTING		PAN, DRAIN	WATER CANS
ANTIFREEZE	FILE, WOOD CUTTING		PAPER – sand, toilet	WELD ROD
ANTI-SPLATTER SPRAY	FILTER – for vacuum cleaner		PASTE – solder	WELDING GASES
APRON, WELDERS	FILTERS		PATTERNS	WHEEL, DEPRESSED
ARBORS, HOLE SAW	FISHTAPE, HAND		PENCIL, CARPENTER	CENTER
AUGER, HAND - post hole digger	FITTINGS, ALEMITE & HOSE		PENS, WRITING, MARKING	WHEELBARROW, All Types
BADGES	FLAMBEAU, KEROSENE		PETROLEUM JELLY	WHEEL ABRASIVE
BAG, DUST – for belt sander	FLASHLIGHT		PICK, CLAY	WHEEL, WIRE
BAG, BOLT	FLINT		PLUG, PIPE TEST	WICKS, LANTERN
BANDS, SAFETY HAT	FLUID CLEANING		PLUNGER, BATHROOM	WIRE - tie & miscellaneous
BARRELS, WATER or TRASH	FLUX - brazing, welding		POCKET, LINEMAN’S	WOOL – steel
BATTERY – flashlight and lantern	FORK, SEED		POUCH, CANVAS	WRAP AROUNDS
BELTING, BELT DRESSING	FORM TIES		POUCH, ROD	
BINS, TRASH	FRAME, HACKSAW		POWDER, SCOURING	
BITS – small hand tool, all types	FUELS (for construction equipment)		PULLER, WIRE	
BLADES – small hand tool, all types	FUNNELS, ALL TYPES		PUMICE	
BLANKET – wool, rubber	FUSE (except for permanent plant use)		PUNCH AND CHISEL SETS	
BOX, CARDBOARD	GARBAGE BAGS		PUNCH, CONDUIT	
BRACKET, FLOAT HANDLE	GASKETS, HOSE		PUNCH, PIN SET	
BRICK, RUBBING	GLOVES, WORK, all types		PUTTY	
BROOM – all types	GLUE		RAGS	
BRUSH – all types	GLYCERINE		RAKE, GARDEN	
BUCKET – all types	GOGGLES, WORK, all types		RAKE, CONCRETE	
BULB – blow out, dust	GRAPHITE		RAKE, ROAD	
BULB – flashlight, lantern, light	GREASE		REAMER, TAPER PIN (Hand Only)	
BURLAP	GRIPS, PLASTIC for pliers		RIGGING HOOKS	
CABLES, RIGGING	GROMMETS		ROPE, MANILA	
CAN, OIL	GUIDE, HINGE-BUTT for router		ROPE, POLYPROPYLENE	
CAN, SAFETY	GUN, CAULKING		ROPE, WIRE	
CARBIDE	GUN, GREASE		RULE - Extension, Wood,	
CARBORUNDUM – Blocks, Stones Walk	HASPS		Fiberglass, Folding	
CHAIN, SAFETY	HATCHET		RULE, TAPE	
CHAIN, LOADBINDER	HINGES		RUST PREVENTIVE	
CHALK	HOE		SANDBLAST NOZZLES	
CHALK LINE BOX	HOOK, SNAP		SCISSORS, ELECTRICIAN	
CHAMOIS	HOOK, TIMBER		SCRAPER, HAND	
CHARCOAL AND COKE	HOSE, AIR, ¾” /Dia. Max. (Air Tools Only)		SCRAPER, SIDEWALK	
CHISEL – all types	HOSE WATER to ¾”		SCRAPER, WALL	
CHOKER – all types	HOSE, GREASE, GUN		SCREEN CLOTH – Wire	
CHUCKS, TOOL – all types	HOSE, TWIN WELDING		SCREW RUNNER	
CLAMP, CABLE	ICE		SCREW STARTER	
CLAMP, HOSE	INK, LAYOUT – for Millwrights		SCREWDRIVER, All Types	
CLEANER, DRAIN	IRON, CAULKING		SHACKLES	
CLEANER, HAND	IRON, PACKING		SHEATH, PLUMB BOB	
CLEANER, TIP	IRON, YARNING		SHIMS	
CLIPS, WIRE ROPE	JAW, BOLT CUTTER REPLACEMENT		SILICONE SPRAY	
CLOTH, DROP, PAINTER’S	JITTERBUG – Concrete Hand		SOAP	
CLOTH, EMERY	JOINT RUNNER		SOAP STONE	
	KEEL (lumber crayon)		SOLDER	
			SOLVENT	

CLOTH, STRAINING	KEY, CHUCK	SPONGE
COAL and COKE	KEY, EJECTOR for Roto Hammers	STAKE - survey
COMPOUND - cleaning, pipe, thread grinding	KEY, HEX	STAPLES
COMPOUND, SWEEPING	LASHING, WIRE ROPE	STRING, NYLON
COMPOUND, WIRE PULLING	LATCHES	TACKS
CONNECTORS – Cord, Cotter Pins	LATTERNS, 6 VOLT LENS - Welding	TAG, BLANK, WIRE TWIST
CORD, PLUMB BOB	LIGHTER, SPARK	TARPAULIN
CORD, SASH	LIME, MARKING	TAP, TAPER, HAND
CORK	LINE, FISH	TAPE - adhesive, masking, friction, rubber, plumbers, etc.
CRAYON, LUMBER	LITHARGE	TEMPIL STICKS
CRAYON - Temperature Indicating	LUBRICANT – thread cutting, electric wire pulling	THIMBLES, WIRE ROPE
CREOSOTE	LUGS	TIP, TORCH WELDING
CUP – drinking	MARKER, METAL	TOOL BOXES, BINS
CUTTER WHEELS – tools, all types	MARKER, PIPE CONTOUR	TOOL, BRUSHING for Vacuum cleaner
DIE NUTS – Hexagon Rethread	MENDERS, HOSE	TOOL, CREVICE, 15” for Vacuum
DIES, BUTTON	MIRROR, INSPECTION	TOOL, MAJOR FLOOR, 14”
DIES, KNOCKOUT	MOP	TOOL STEEL
DIES, PIPE – for Hand Threaders Only	NAILS	TOWEL – Paper
DIES, TMB – 8, Compression Tools	NIPPLES, HOSE	TORCH, HEATING
DIPPERS	NOZZLE, WATER	TORCH, CUTTING
DISC, GRINDING	NUT RUNNER	TROWEL, HAND
DISINFECTANT	NUT SETTER	TRUNBUCKLES
DISPENSER, PAPER CUP	OFFICE SUPPLIES	TURPENTINE
DRESSING, BELT	OIL - all types	TWINE
DRILL BIT – Small Hand Tool, All Types	PACKING MATERIAL	VISQUEEN – Non-reinforced
EDGER, CONCRETE HAND		
ELECTRODE HOLDERS		

**3. SMALL TOOLS**

ADAPTER - hose, pipe thread	DOOR HANGING KIT	MOVER - freight car, hand	SOLDERING IRON
ADZE	DRESSER - grinding wheel	NAILER, AIR	SPADE
ANVIL	DRILL - all types: hand, electric,	NIBBLER, SHEET METAL	SPEED, PORTABLE
APRON	pneumatic	NIPPER	SPIKE- marlin
ARBOUR	DRILL PRESS	NOTCHER, PIPE	SPRAYER, ORCHARD
AUGER, GASOLINE (Post Hole Digger)	DRILL STAND - bench	NOZZLE - hose, weld	SPREADER, FLANGE
AWL	DYNAMOMETER	NUT - die, driver	SQUARE- combination, framing, etc.
AXE	ELCOMETER - paint thickness gauge	OILER - can, hand	SQUEEGEE
BABBITT	EMBOSSER, TAPE, HAND	OVEN - welding rod	STAND, DRILL
BANDING MACHINE – Hand Type	ETCHER, ELECTRIC	PAIL	STAND, GRINDER
BAR- claw, crow, pinch, etc.	EXPANDER- tube	PEDESTAL, GRINDER	STAND, PIPE
BARREL- trash	EXTENSION, SOCKET SET	PIN, BARREL	STAND, REEL, TELESCOPING SCREW
BASE, MAGNETIC/DAILY TEST INDICATOR	EXTENSION CORD	PIN, BULL	STAPLE- tackler
BELT- safety w/strap	EXTRACTOR - pipe & screw	PIN, DRAFT	STAPLER, ELECTRIC OR HAND
BENDER - hydraulic, manual	FAN - electric	PINCEP	STAR DRILL
BENDER, CABLE	FILE - hand	PLANE – wood	STEAM HEATER
BENDER, PIPE	FLARING TOOL	PLANE, BENCH JACK	STENCIL- steel, brass, paper
BENDER, TUBING	FLASHLIGHT - c/w bulb & batteries	PLANE, BLOCK	STONE - OIL
BENDER, LOAD	FLATTER - blacksmith	PLANE, ELECTRIC	STRAIGHT EDGE
BEVEL	FLOAT, CONCRETE – Hand Only	PLANE, VERSI	STRAINER- air line
BEVELLER - load	FORGE - blacksmith	PLANNER, POWER BLOCK – Electric	STRAPPER
BINDER - load	FORK - barn	HD	STRIPPER- wire
BIT - auger, carpenter	FULLER - blacksmith	PLIERS – all types	SUPPORT, PIPE – Roller type
BLOCK - chain, rope, cable, etc.	FURNACE, PROPANE – Melting	PLUMB BOB	SWEDGING TOOL KIT
BLOCKS, WOOD	GAD	POINT - trammel	SWIVEL
BLOCKS, METAL – Snatch	GAUGE- drill, feeler, wire thickness, tire, etc.	POLE - pike, range	TACHOMETER
BLOWER – Pneumatic Powered	GRINDER- electric, pneumatic	POT - melting, fire, welding rod, lead	TAMPER- hand, pneumatic
BOB, PLUMB	GRAB, PIPE OF 20”	POUCH - tool	TANK, LP – 20# only
BOSUN CHAIRS	GRINDER, ELECTRIC	PROTRACTOR	TAP- bolt, pipe, wrench
BOX - tool box or tool bag	GRIP- cable	PULLER, FUSE SAFETY	TAPE- steel measuring
BOX, GANG (Craft Storage)	GROOVING, TOOL	PULLER, WHEEL GEAR	TAPEWRITER, EMBOSSING – Hand type
BRACE - ratchet	GUN- grease caulking, paint, heat (115V), pop rivet, powder actuated, soldering	PULLER- nail, wire, spike road	TAPPER
BROOMS	HACKSAW, POWER	PULLEY, CABLE	TELEPHONE- hand set, electrician’s testing
BURNER, WEED	HAMMERS - all types: pneumatic, hand	PULLEY, WELL	TEMPLATE, HINGE-BUTT
CABLE - welding, electrode, ground, etc.	HANDLES - all types	PUMP- hand, barrel, sump, test	TESTER- battery, hardness, antifreeze,
CALLIPERS	HATCHET & HANDLE - for hand threader sets	PUNCH- center, back out, arch, knockout, hob, gasket, sheet metal, stud, etc.	circuit, insulation, motor rotation, etc.
CANS	HATCHET, WRENCH	RADIO- portable, 2 way, intercom	THIMBLE- pipe
CART - concrete	HEATER - portable: fuel, electric (115V), LP, Kerosene	RASP	THREADER- pipe chain, etc.
CART, WELDING BOTTLE 2	HOD - brick, mortar	REAMER- pipe, bridge burring, etc.	TONGS, BRICK CARRIER
CASTERS	HOE	REAMER, INNER, OUTER – for copper tubing	TONGS, CHAIN
CAULKING TOOL - yarning iron	HOIST - portable, all types	REAMER, STRAIGHT – Pipe only	TONGS, PIPE
CENTER FINDER SET - Wiggler	HOOD - welding, sandblasting	REEL, TIE WIRE	TONGS, SHEET METAL
CHAIN - surveyor, measuring, steel loading	HOOK - packing, eye, cant, lug, etc.	REGULATOR- welding gas	TONG- blacksmith, pipe,
CHAIR, BOSUN’S	HORSES - mason, saw	RESPIRATOR- dusts c/w refill	TOOL, FLARING
CHARGER - battery	INDICATOR - dial, test	RIGGERS ROPE- manila, wire	TOOL, PICK UP, MAG
CHUCK - taper, drill	IRON - tire	RIVERTER, HAND	TOOL, SOIL PIPE ASSEMBLY
CLAMP - pipe, aligning, saw, carpenter, etc.	JACK - flange, hydraulic, mechanical, screw	ROLLER, PIPE	TOOL- clamping (hose)
CLIMBER – Adjustable w/Pad and Straps	JIG - weld coupon bending test	ROLLER, paint	TOOLS- cement worker
CLIPPER - bolt	KEY - welding, gas tank	ROUTER, ELECTRIC	TORCH- blow, soldering
COOLER - drinking water	KNIFE - draw, putty	RULES- all types	Cutting, propane, acetylene, prestolite
COMBINATION SETS – 6” to 18”	KNOCKOUT, HAND	RUSH DRILL	TRANSFORMER- dry type
CONNECTOR - welding, cable	LADDER - steel, extension, etc.	SANDER - disc, belt	TROLLEY
CONVEYOR - gravity, roller	LADLE - melting, lead	SAW - portable, all types: hand, power	TROWEL
CORD - electric extension	LANTERNS - all types	SCALER, NEEDLE	TRUCK- hand
COUPLING - hose	LEAD JOINT RUNNER	SCRAPER- bearing, miscellaneous	TURNBUCKLE
CREEPER, FLOOR	LEVEL - hand, line, etc.	SCREW STOP	TWISTER- wire



Exhibit 2 - Appendix C – Option 2 - FPTCL  
 Small Tools, Consumables and PPE  
 Agreement No: CH0007-001

CRIMPER, BAND	LIGHT - portable, flood, drop	SCREW PLANE (set)	UMBRELLA
CRIMPER - electrician's	LINE - mason, chalk	SCRIBER SET- nail, rivet	UNIVERSAL – for socket sets
CRIMPING TOOL - Wire	LUBRICATOR - air line	SHARPENER, DRILL BIT	VACUUM CLEANER, HD
CUTTER - bar, wire, pipe-hand, pipe-gearred, gasket, etc.	MALLET	SHEAR- bar, tanners	VIBRATOR, CONCRETE- pneumatic, Electric
CYLINDER, HYDRAULIC – for Porta Powers	MANDREL - all types	SHEAR, ANGLE IRON	WISE, MACHINIST
DIE- pipe, bolt, c/w head, stock	MARKER, LIME, ROLLING	SHEARS, ELECTRIC, HAND	WISE, PIPE
DIGGER - hand, pneumatic	MATTOCK	SHEARS, TRIMMING, ROTARY	WEDGE
DIVIDER – wing	MAUL	SHEAVES, CABLE, TRAY METAL	WELDING TOOLS
DIVIDER, SPRING TYPE	MEGGER METER	SHEETING- plastic, paper	WELDING & CUTTING OUTFIT (Oxy/Acetelyne)
DOLLY, BARREL	METER - vibration	SHIELD- face	WHEEL- grinding
DOLLY, BEAM	METER, AMP – Clamp-on w/Case	SHOVEL	WHEELBARROW
DOLLY, CATERPILLAR	METER, MILLIVOLT	SIREN, ELECTRIC	WINCH- hand
DOLLY, MACHINE	METER, MOISTURE	SLEEVE- morse, taper, shank	WRENCHES- all types
DOLLY, PIPE	METER, VOLT	SLING- canvas, pipe, wire, rope, nylon	
DOLLY, PRY	MICROMETER	SNIP- tinner	
DOLLY, WAREHOUSE	MIRROR, INSEPTION	SNIPS, AVIATION, HAND	
DOLLY BAR - pivot	MITER BOX – Electric or hand	SNIPS, METAL CUT, HAND	
	MORTISER, LOCK - Electric	SNIPS, TRIM HAND	
		SOCKET for hand tools only	
		SOCKET SET	

**EXHIBIT 2 - APPENDIX D**  
**EQUIPMENT RATE SCHEDULE**

Exhibit 2 - Appendix D – Option 2 - FPTCL  
Equipment Rate Schedule  
Agreement No: CH0007-001

EQUIPMENT RATE SCHEDULE



REVISED EQUIPMENT RATE SCHEDULE ACC. TO ACTION ITEM 4th September 2013

Equipment Type	Manufacturer and Model Number	Size	Year	Quantity Available	First Shift				Second Shift			
					Hour	Day	Week	Month	Hour	Day	Week	Month
Hydraulic Track Excavator	CAT 330/LN	2.2 m3, HP 243	New or As New	1	CAD 145,96	CAD 1,094,70	CAD 6,889,28	CAD 29,830,58	CAD 145,96	CAD 1,094,70	CAD 6,889,28	CAD 29,830,58
Wheel loader	CAT 966H STD	3.1 m3, HP 260	New or As New	2	CAD 135,94	CAD 1,019,55	CAD 6,416,34	CAD 27,782,74	CAD 135,94	CAD 1,019,55	CAD 6,416,34	CAD 27,782,74
Wheel loader	CAT 950 H STD	2.5 m3, HP 196	New or As New	1	CAD 117,50	CAD 881,25	CAD 5,545,97	CAD 24,014,06	CAD 117,50	CAD 881,25	CAD 5,545,97	CAD 24,014,06
Backhoe loader	CAT 434 AWS	HP 93	New or As New	1	CAD 91,52	CAD 686,40	CAD 4,319,72	CAD 18,704,40	CAD 91,52	CAD 686,40	CAD 4,319,72	CAD 18,704,40
Crawler dozer	CAT D8PS & Ripper	HP 310	New or As New	1	CAD 192,08	CAD 1,440,60	CAD 9,066,13	CAD 39,256,35	CAD 192,08	CAD 1,440,60	CAD 9,066,13	CAD 39,256,35
Crawler dozer	CAT D7PS	HP 240	New or As New	1	CAD 154,12	CAD 1,155,90	CAD 7,274,43	CAD 31,498,28	CAD 154,12	CAD 1,155,90	CAD 7,274,43	CAD 31,498,28
Motorgrader	CAT 14M STD	HP 220	New or As New	1	CAD 142,34	CAD 1,067,55	CAD 6,718,42	CAD 29,090,74	CAD 142,34	CAD 1,067,55	CAD 6,718,42	CAD 29,090,74
Rear dumper	DP 255	25Tn, HP 306	New or As New	3	CAD 117,30	CAD 879,75	CAD 5,536,53	CAD 23,973,19	CAD 117,30	CAD 879,75	CAD 5,536,53	CAD 23,973,19
Self-prop. Smooth v. roller	CAT-302D	12,6Tn, HP 120	New or As New	1	CAD 117,40	CAD 880,50	CAD 5,541,25	CAD 23,993,63	CAD 117,40	CAD 880,50	CAD 5,541,25	CAD 23,993,63
Road dumper	Astra HD8/c 64-38	25Tn, HP 380	New or As New	3	CAD 117,01	CAD 877,58	CAD 5,522,88	CAD 23,914,06	CAD 117,01	CAD 877,58	CAD 5,522,88	CAD 23,914,06
Semitrailer Truck	Astra HD8 84-42	40Tn, HP 420	New or As New	3	CAD 109,11	CAD 818,33	CAD 5,150,00	CAD 22,299,49	CAD 109,11	CAD 818,33	CAD 5,150,00	CAD 22,299,49
Truck mixer	Astra HD8 64-38	8m3, HP 380	New or As New	8	CAD 117,77	CAD 883,28	CAD 5,558,75	CAD 24,069,38	CAD 117,77	CAD 883,28	CAD 5,558,75	CAD 24,069,38
Truck concrete pump	Iveco AD380T45	90m3/hr, HP 360	New or As New	1	CAD 151,77	CAD 1,138,28	CAD 7,163,54	CAD 31,018,13	CAD 151,77	CAD 1,138,28	CAD 7,163,54	CAD 31,018,13
Water tank Truck	Astra HD8 64-38	20 Tn., HP 410	New or As New	1	CAD 93,92	CAD 704,40	CAD 4,433,00	CAD 19,194,90	CAD 93,92	CAD 704,40	CAD 4,433,00	CAD 19,194,90
Flat bed truck	Astra HD8 64-41	7,0Tn., HP 410	New or As New	3	CAD 105,16	CAD 788,70	CAD 4,963,53	CAD 21,492,08	CAD 105,16	CAD 788,70	CAD 4,963,53	CAD 21,492,08
Flat bed Truck With Crane	Iveco ML 145E 25K	7,0Tn., HP 250	New or As New	10	CAD 84,07	CAD 630,53	CAD 3,968,12	CAD 17,181,94	CAD 84,07	CAD 630,53	CAD 3,968,12	CAD 17,181,94
Workshop truck	Astra HD8 42.31	HP 130	New or As New	1	CAD 87,58	CAD 656,85	CAD 4,133,76	CAD 17,899,16	CAD 87,58	CAD 656,85	CAD 4,133,76	CAD 17,899,16
Lubricant truck	Astra HD8 42.33	HP 330	New or As New	1	CAD 89,03	CAD 667,73	CAD 4,202,23	CAD 18,195,64	CAD 89,03	CAD 667,73	CAD 4,202,23	CAD 18,195,64
Low loaders Truck	Astra HD8 64-42 +Bertoja SBT 60E/20'	60 Tn., HP 420	New or As New	1	CAD 120,57	CAD 904,28	CAD 5,690,91	CAD 24,641,63	CAD 120,57	CAD 904,28	CAD 5,690,91	CAD 24,641,63
Bus 55 seats	Iveco Bus Domino 55	HP 420	New or As New	5	CAD 99,68	CAD 747,94	CAD 4,707,06	CAD 20,371,68	CAD 99,68	CAD 747,94	CAD 4,707,06	CAD 20,371,68
Minibus 12 seats	Iveco Daily 35/80	HP 80	New or As New	5	CAD 39,84	CAD 298,92	CAD 1,881,20	CAD 8,127,36	CAD 39,84	CAD 298,92	CAD 1,881,20	CAD 8,127,36
Pick up 4 x 4 single/double cab.	Toyota Hylux	HP 360	New or As New	60	CAD 18,85	CAD 141,44	CAD 890,13	CAD 3,852,39	CAD 18,85	CAD 141,44	CAD 890,13	CAD 3,852,39
Hydr. Wheel crane	Liebherr LTM 1090	90 Tn., HP 355	New or As New	3	CAD 201,68	CAD 1,512,60	CAD 9,519,25	CAD 41,218,35	CAD 201,68	CAD 1,512,60	CAD 9,519,25	CAD 41,218,35
Hydr. Wheel crane	Locatelli Grill 8600	60 Tn., HP 200	New or As New	2	CAD 159,78	CAD 1,198,35	CAD 7,541,58	CAD 32,655,04	CAD 159,78	CAD 1,198,35	CAD 7,541,58	CAD 32,655,04
Hydr. Wheel crane	Locatelli Grill 8300	30 Tn., HP 150	New or As New	3	CAD 145,66	CAD 1,092,45	CAD 6,875,12	CAD 29,769,26	CAD 145,66	CAD 1,092,45	CAD 6,875,12	CAD 29,769,26
Fork lift	Manitou MSI 31	3 Tn., HP 60	New or As New	5	CAD 23,76	CAD 178,20	CAD 1,121,47	CAD 4,855,95	CAD 23,76	CAD 178,20	CAD 1,121,47	CAD 4,855,95
Fixed Electric air compressor	Atlas GA 160/10 bar	24m3/1', HP 215	New or As New	4	CAD 8,73	CAD 65,48	CAD 412,09	CAD 1,784,33	CAD 8,73	CAD 65,48	CAD 412,09	CAD 1,784,33
Mobile Diesel air compressor	Atlas XAS186 DD	11m3/1', HP107	New or As New	4	CAD 36,54	CAD 274,05	CAD 1,724,68	CAD 7,467,86	CAD 36,54	CAD 274,05	CAD 1,724,68	CAD 7,467,86
Electric Generators	Perkins	1200 KW, HP 1800	New or As New	1	CAD 314,06	CAD 2,355,45	CAD 14,823,56	CAD 64,186,01	CAD 314,06	CAD 2,355,45	CAD 14,823,56	CAD 64,186,01
Electric Generators	Perkins	525 KW, HP 800	New or As New	2	CAD 138,25	CAD 1,036,88	CAD 6,525,40	CAD 28,254,98	CAD 138,25	CAD 1,036,88	CAD 6,525,40	CAD 28,254,98
El. subm. water pump	Flygt W5P73	20m3/1', HP 73	New or As New	15	CAD 6,24	CAD 46,80	CAD 294,53	CAD 1,275,30	CAD 6,24	CAD 46,80	CAD 294,53	CAD 1,275,30
El. subm. water pump	Flygt B52670 IMT 226	3,6m3/1', HP 27	New or As New	1	CAD 4,35	CAD 32,63	CAD 205,35	CAD 889,17	CAD 4,35	CAD 32,63	CAD 205,35	CAD 889,17
Diesel water pump	Elecal	4m3/1', HP 30	New or As New	2	CAD 23,41	CAD 175,58	CAD 1,104,98	CAD 4,784,56	CAD 23,41	CAD 175,58	CAD 1,104,98	CAD 4,784,56
Diesel pumpcrete	Putzmaister BSA1407D	100 M3/hr, HP 250	New or As New	4	CAD 105,04	CAD 787,80	CAD 4,957,86	CAD 21,467,55	CAD 105,04	CAD 787,80	CAD 4,957,86	CAD 21,467,55
Truck Spitz beton	Pas307 D/E CSS3-3T	30m3/hr, HP 180	New or As New	2	CAD 147,29	CAD 1,104,68	CAD 6,952,09	CAD 30,102,53	CAD 147,29	CAD 1,104,68	CAD 6,952,09	CAD 30,102,53
Electr. water blaster	Karcher K2.26 1500PSI	480bar, HP 59	New or As New	4	CAD 46,62	CAD 349,65	CAD 2,200,45	CAD 9,527,96	CAD 46,62	CAD 349,65	CAD 2,200,45	CAD 9,527,96
Jack hammer	-	-	New or As New	1	CAD 2,52	CAD 18,90	CAD 118,94	CAD 515,03	CAD 2,52	CAD 18,90	CAD 118,94	CAD 515,03
Hand drill	-	-	New or As New	7	CAD 5,01	CAD 37,58	CAD 236,50	CAD 1,024,06	CAD 5,01	CAD 37,58	CAD 236,50	CAD 1,024,06
Vibrating plates	-	HP 3.3	New or As New	1	CAD 5,31	CAD 39,83	CAD 250,66	CAD 1,085,37	CAD 5,31	CAD 39,83	CAD 250,66	CAD 1,085,37
Diesel welding machine	-	HP 35	New or As New	16	CAD 16,70	CAD 125,25	CAD 788,24	CAD 3,413,06	CAD 16,70	CAD 125,25	CAD 788,24	CAD 3,413,06
El. Welding machine	-	HP 15	New or As New	36	CAD 3,97	CAD 29,78	CAD 187,41	CAD 811,51	CAD 3,97	CAD 29,78	CAD 187,41	CAD 811,51

**NOTES**

1. The listed rates apply to reimbursable Change Order Work only (i.e., this 5 of Exhibit 2)
2. The rates include, but are not limited to, the cost of equipment rental, fuel, lubricants, tires, expendable parts, calibration, repairs, storage, insurance, licenses, depreciation, interest, taxes, overhead, mark-up and profit.
3. The rates include spare parts.
4. The rates exclude operator's labour costs.
5. Rates are applicable only to actual operating time.
6. For any equipment not listed, rental rates will be agreed to in writing by Company prior to the deployment and use of such equipment. Equipment rented or leased from a Third party shall be compensated at actual documented invoice cost plus a markup of 7%. Third Party leasing shall be approved by Company in advance of the deployment and use of such equipment. In the event of Third Party leased equipment requires operation and maintenance then the appropriate rate for same shall be approved by Company in advance of the deployment and use of such equipment.
7. If approved by Company, the time required to mobilize and demobilize equipment not located at the Work Site and which is to be deployed at the Work Site on Change Order Work will be compensated. Compensation will include loading and transportation costs where this is more efficient than travelling the equipment. The cost of demobilizing the equipment will not be compensated if such equipment is used at the Work Site on Lump Sum or Unit Price Work.

**EQUIPMENT STANDBY RATE SCHEDULE**



REVISED EQUIPMENT STAND BY SCHEDULE ACC. TO ACTION ITEMS 4th September 2013

Equipment	Manufacturer and Model Number	Size	Year	Quantity Available	Hour	Day	Week	Month
Hydraulic Track Excavator	CAT 330/LN	2.2 m3, HP 243	New or As New	1	CAD 25,45	CAD 381,80	CAD 2.402,78	CAD 10.404,05
Wheel loader	CAT 966H STD	3.1 m3, HP 260	New or As New	2	CAD 24,42	CAD 366,31	CAD 2.305,30	CAD 9.981,95
Wheel loader	CAT 950 H STD	2.5 m3, HP 196	New or As New	1	CAD 17,38	CAD 260,71	CAD 1.640,73	CAD 7.104,35
Backhoe loader	CAT 434 AWS	HP 93	New or As New	1	CAD 9,21	CAD 138,18	CAD 869,61	CAD 3.765,41
Crawler dozer	CAT D8PS & Ripper	HP 310	New or As New	1	CAD 54,09	CAD 811,37	CAD 5.106,20	CAD 22.109,83
Crawler dozer	CAT D7PS	HP 240	New or As New	1	CAD 36,05	CAD 540,75	CAD 3.403,10	CAD 14.735,44
Motorgrader	CAT 14M STD	HP 220	New or As New	1	CAD 42,07	CAD 631,01	CAD 3.971,14	CAD 17.195,02
Rear dumper	DP 255	25Tn, HP 306	New or As New	3	CAD 26,06	CAD 390,91	CAD 2.460,11	CAD 10.652,30
Self-prop. Smooth v. roller	CAT-302D	12,6Tn, HP 120	New or As New	1	CAD 11,28	CAD 169,18	CAD 1.064,70	CAD 4.610,16
Road dumper	Astra HD8/c 64-38	25Tn, HP 380	New or As New	3	CAD 7,73	CAD 115,98	CAD 729,90	CAD 3.160,46
Semitrailer Truck	Astra HD8 84-42	40Tn, HP 420	New or As New	3	CAD 9,99	CAD 149,85	CAD 943,05	CAD 4.083,41
Truck mixer	Astra HD8 64-38	8m3, HP 380	New or As New	8	CAD 10,88	CAD 163,26	CAD 1.027,44	CAD 4.448,84
Truck concrete pump	Iveco AD380T45	90m3/hr, HP 360	New or As New	1	CAD 28,03	CAD 420,46	CAD 2.646,08	CAD 11.457,54
Water tank Truck	Astra HD8 64-38	20 Tn., HP 410	New or As New	1	CAD 11,47	CAD 172,05	CAD 1.082,76	CAD 4.688,36
Flat bed truck	Astra HD8 64-41	20 Tn., HP 410	New or As New	3	CAD 8,94	CAD 134,03	CAD 843,49	CAD 3.652,32
Flat bed Truck With Crane	Iveco ML 145E 25K	7,0Tn., HP 250	New or As New	10	CAD 14,12	CAD 211,83	CAD 1.333,11	CAD 5.772,37
Workshop truck	Astra HD8 42.31	HP 310	New or As New	1	CAD 14,30	CAD 214,54	CAD 1.350,17	CAD 5.846,22
Lubricant truck	Astra HD8 42.33	HP 330	New or As New	1	CAD 14,59	CAD 218,86	CAD 1.377,35	CAD 5.963,94
Low loaders Truck	Astra HD8 64-42+Bertoja SBT 60E/20"	60 Tn., HP 420	New or As New	1	CAD 12,10	CAD 181,48	CAD 1.142,11	CAD 4.945,33
Bus 55 seats	Iveco Bus Domino 55	HP 420	New or As New	5	CAD 9,68	CAD 145,20	CAD 913,79	CAD 3.949,44
Minibus 12 seats	Iveco Daily 35/80	HP 80	New or As New	5	CAD 4,83	CAD 72,51	CAD 456,14	CAD 1.970,64
Pick up 4 x 4 single/double cab.	Toyota Hylux	HP 360	New or As New	60	CAD 4,37	CAD 65,55	CAD 412,31	CAD 1.782,96
Hydr. Wheel crane	Liebherr LTM 1090	90 Tn., HP 355	New or As New	3	CAD 55,59	CAD 833,90	CAD 5.247,98	CAD 22.723,78
Hydr. Wheel crane	Locatelli Gril 8600	60 Tn., HP 200	New or As New	2	CAD 23,71	CAD 355,60	CAD 2.237,90	CAD 9.690,10
Hydr. Wheel crane	Locatelli Gril 8300	30 Tn., HP 150	New or As New	3	CAD 16,68	CAD 250,17	CAD 1.574,40	CAD 6.817,13
Fork lift	Manitou MSI 31	3 Tn., HP 60	New or As New	5	CAD 3,99	CAD 59,91	CAD 377,03	CAD 1.632,55
Fixed Electric air compressor	Atlas GA 160/10 bar	24m3/1', HP 215	New or As New	4	CAD 3,82	CAD 57,35	CAD 360,92	CAD 1.562,79
Mobile Diesel air compressor	Atlas XAS186 DD	11m3/1', HP107	New or As New	4	CAD 4,29	CAD 64,38	CAD 405,16	CAD 1.754,36
Electric Generators	Perkins	1200 KW, HP 1800	New or As New	1	CAD 22,11	CAD 331,64	CAD 2.087,11	CAD 9.037,19
Electric Generators	Perkins	525 KW, HP 800	New or As New	2	CAD 5,21	CAD 78,12	CAD 491,63	CAD 2.128,77
El. subm. water pump	Flygt WSP73	20m3/1', HP 73	New or As New	15	CAD 3,47	CAD 52,08	CAD 327,76	CAD 1.419,18
El. subm. water pump	Flygt BS2670 MT 226	3,6m3/1', HP 27	New or As New	1	CAD 0,98	CAD 14,70	CAD 92,51	CAD 400,58
Diesel water pump	Elecal	4m3/1', HP 30	New or As New	2	CAD 1,74	CAD 26,04	CAD 163,88	CAD 709,59
Diesel pumpcrete	Putzmeister BSA1407D	100 M3/hr, HP 250	New or As New	4	CAD 32,76	CAD 491,39	CAD 3.092,47	CAD 13.390,38
Truck Spitz beton	Pas307 D/E CSS3-3T	30m3/hr, HP 180	New or As New	2	CAD 22,82	CAD 342,34	CAD 2.154,45	CAD 9.328,77
Electr. water blaster	Karcher K2.26 1500PSI	480bar, HP 59	New or As New	4	CAD 2,39	CAD 35,78	CAD 225,17	CAD 975,01
Jack hammer	-	-	New or As New	1	CAD 0,61	CAD 9,11	CAD 57,33	CAD 248,25
Hand drilller	-	-	New or As New	7	CAD 2,78	CAD 41,69	CAD 262,37	CAD 1.136,05
Vibrating plates	-	HP 3.3	New or As New	1	CAD 1,16	CAD 17,41	CAD 109,57	CAD 474,42
Diesel welding machine	-	HP 35	New or As New	16	CAD 3,94	CAD 59,11	CAD 372,00	CAD 1.610,75
El. Welding machine	-	HP 15	New or As New	36	CAD 1,81	CAD 27,16	CAD 170,93	CAD 740,11

**STANDBY RATE NOTES**

1. The following rates apply to reimbursable Change Order Work only (i.e., Section 5 of this Exhibit 2).
2. The standby rates include cost of equipment rental, insurance, licenses, depreciation, interest, taxes (excluding HST), overhead, mark-up and profit.
3. The standby rates exclude operator's labour costs.

**EXHIBIT 2 - APPENDIX E**

**ESCALATION DATA**





EXHIBIT 2 - APPENDIX E  
Table E-1

ACCORDING TO ACTION ITEM N° 32 4th Sept.2013  
Present Day Cost of Cement, Rebar and Structural Steel Contained in Proposal Price,  
and Distribution over the Period of the Work - Dollars

	YEAR and QUARTER																				Total Cost			
	2013		2014				2015				2016				2017				2018					
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Cement	0.00	59.46	251,838.29	3,245,681.00	6,342,070.62	4,344,827.08	3,599,004.69	4,020,996.63	3,587,732.32	1,330,388.53	177,026.73	1,200,130.97	1,409,979.33	2,085,034.99	468,294.42	518,830.82	562,711.36	354,142.13	321,019.52	0.00	0.00	0.00	0.00	33,819,769
Rebar	0.00	0.00	181,706.14	3,515,559.91	7,441,816.98	6,006,940.07	5,497,990.19	5,594,119.92	3,736,059.45	1,267,018.91	0.00	1,374,931.53	384,920.12	539,439.30	89,858.69	93,143.82	167,820.88	76,347.80	0.00	0.00	0.00	0.00	0.00	35,967,674
Structural Steel	0.00	0.00	7,698.00	1,102,400.00	1,664,054.06	1,714,005.99	2,532,013.52	5,024,777.54	10,655,031.00	8,092,952.85	3,528,532.51	1,151,571.45	546,474.52	329,714.39	320,052.55	141,641.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36,810,920

PRICE ITEM	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY OF UNITS	MATERIALS COST/UNIT (\$ CAD)	COST OF MATERIALS	CEMENT PORTION	REBAR PORTION	STRUCTURAL STEEL PORTION	2013															
									2013		2014		2015		2016		2017		2018					
									Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2				
<b>TRANSITION DAMS</b>																								
<b>NORTH TRANSITION DAM</b>																								
<b>CONCRETE WORK</b>																								
50	Concrete	m <sup>2</sup>	9,130	158.61	1,448,109	537,608.18	NA	NA																
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>																								
54	Reinforcement including Dowels	kg	55,000	1.38	75,900	NA	74,208.75	NA																
<b>STRUCTURAL STEEL AND MISCELLANEOUS METAL</b>																								
<b>Supply and Installation of Non Embedded Miscellaneous Metal</b>																								
55	Galvanized Miscellaneous Steel	kg	10,690	8.62	91,372	NA	NA	64,236.00																
56	Galvanized Grating	kg	5,100	10.29	52,479	NA	NA	38,065.89																
<b>Embedded Miscellaneous Metals</b>																								
57	Embedded Miscellaneous Steel (Frames, L Shapes, Sleeves, etc.)	kg	390	8.93	3,487	NA	NA	1,151.40																
58	Anchor Bolts Grade 55 ASTM F1554	kg	335	2.40	804.15	NA	NA	664.63																
<b>CENTRE TRANSITION DAM</b>																								
<b>CONCRETE WORK</b>																								
81	Concrete Below El. 42.00 m	m <sup>2</sup>	26,900	159.34	4,296,246	1,583,971.52	NA	NA																
82	Concrete Above El. 42.00 m	m <sup>2</sup>	2,550	172.51	439,901	184,720.56	NA	NA	126,384.53	453,835.34	126,384.53													
83	Concrete - Slab on Steel Deck	m <sup>2</sup>	150	171.31	25,697	9,689.44	NA	NA																
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>																								
87	Reinforcement including Dowels	kg	145,000	1.38	200,100	NA	195,641.25	NA																
<b>SUPPLY AND INSTALLATION OF STRUCTURAL STEEL</b>																								
88	Painted Structural Steel	kg	79,400	6.86	544,684	NA	NA	397,702.24																
<b>STRUCTURAL STEEL AND MISCELLANEOUS METAL</b>																								
<b>Supply and Installation of Non Embedded Miscellaneous Metal</b>																								
89	Galvanized Miscellaneous Steel	kg	37,000	8.62	318,940	NA	NA	234,220.00																
90	Galvanized Grating	kg	1,745	10.29	17,956	NA	NA	13,024.51																
<b>Embedded Miscellaneous Metals</b>																								
91	Embedded Miscellaneous Steel (Frames, L Shapes, Sleeves, etc.)	kg	16,870	8.93	150,649	NA	NA	102,232.20																
92	Metal Decking including Shear Studs (Galvanized)	m <sup>2</sup>	400	166.74	66,696	NA	NA	20,916.00																
93	Shear Studs	kg	375	2.55	956	NA	NA	450.71																
<b>Crane Rails including Fastening System and Accessories</b>																								
94	Rails for Trash Cleaning System	m	140	347.44	48,642	NA	NA	34,380.00																
95	Anchor Bolts Grade 55 ASTM F1554	kg	4,850	2.40	11,640	NA	NA	6,025.15																
96	Elastomeric Bearing Pads	each	21	81.45	1,710	NA	NA	1,233.80																
<b>SOUTH TRANSITION DAM</b>																								
<b>CONCRETE WORK</b>																								
124	Concrete	m <sup>2</sup>	9,700	158.57	1,538,129	571,171.89	NA	NA																
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>																								
128	Reinforcement including Dowels	kg	283,300	1.37	388,121	NA	382,242.53	NA																
<b>STRUCTURAL STEEL AND MISCELLANEOUS METAL</b>																								
<b>Supply and Installation of Non Embedded Miscellaneous Metal</b>																								
129	Galvanized Miscellaneous Steel	kg	14,850	8.62	128,007	NA	NA	89,991.00																
130	Galvanized Grating	kg	280	10.29	2,887	NA	NA	1,716.70																
<b>Embedded Miscellaneous Metals</b>																								
131	Embedded Miscellaneous Steel (Frames, L Shapes, Sleeves, etc.)	kg	110	8.62	948	NA	NA	666.60																
132	Anchor Bolts Grade 55 ASTM F1554	kg	1,350	2.40	3,210	NA	NA	1,677.11																
<b>SEPARATION WALL</b>																								
<b>CONCRETE WORK</b>																								
142	Concrete - Separation Wall	m <sup>2</sup>	10,850	161.08	1,747,718	638,688.14	NA	NA																
<b>SPILLWAY</b>																								
<b>SPILLWAY STRUCTURE</b>																								
<b>CONCRETE WORK</b>																								
<b>Spillway and Related Structures including Retaining Walls</b>																								
158	Concrete - Slabs	m <sup>2</sup>	13,100	187.77	2,459,787	942,921.38	NA	NA																
159	Concrete - Piers and Walls	m <sup>2</sup>	32,900	216.35	7,117,915	2,368,100.27	NA	NA																
160	Concrete - Rollways	m <sup>2</sup>	15,500	198.35	3,067,825	1,492,701.79	NA	NA																
162	Overbreak Concrete	m <sup>2</sup>	3,000	196.06	588,180	220,611.47	NA	NA																
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>																								
167	Reinforcement including Dowels	kg	3,850,000	1.37	5,274,500	NA	5,194,612.50	NA																
169	Threaded Rebars with Couplers	kg	117,000	2.75	321,750	NA	315,724.50	NA																
<b>STRUCTURAL STEEL AND MISCELLANEOUS METAL</b>																								
<b>Non Embedded Miscellaneous Metal</b>																								
170	Non Embedded Galvanized Miscellaneous Steel	kg	10,900	9.55	104,095	NA	NA	77,083.00																
<b>Embedded Miscellaneous Metals</b>																								
172	Embedded Galvanized Miscellaneous Steel (Frames, L Shapes, Sleeves, etc.)	kg	430	8.62	3,707	NA	NA	2,605.80																
173	Bulbhead Formwork - Rollway joints	kg	13,500	9.11	122,985	NA	NA	85,900.50																
<b>Crane Rails including Fastening System and Accessories</b>																								
174	Rails for Trash Cleaning System	m	150	348.68	52,302	NA	NA	37,192.50																
175	Anchor Bolts Grade 55 ASTM F1554	kg	2,520	2.40	6,052	NA	NA	3,130.80																
<b>SPILLWAY BRIDGES</b>																								
<b>CONCRETE WORK</b>																								
187	Concrete - Slab on Bridge Deck	m <sup>2</sup>	460	189.44	87,342	33,110.22	NA	NA																
<b>REINFORCEMENT, ANCHORS AND DOWELS</b>																								
188	Reinforcement including Dowels	kg	122,150	1.57	167,346	NA	164,810.89	NA																





Exhibit 2 - Appendix F  
Contractor's Work Force not Covered by the Collective Agreement  
Agreement No: CH0007-001

**EXHIBIT 2 - APPENDIX F**

**WAGES AND BENEFITS**

**OF**

**CONTRACTOR'S WORK FORCE NOT COVERED BY THE COLLECTIVE AGREEMENT**

**WAGES AND BENEFITS OF  
CONTRACTOR'S WORK FORCE NOT COVERED BY THE COLLECTIVE AGREEMENT**

**1. PURPOSE**

- 1.1 This Appendix F lists the Wages and Benefits to be charged by Contractor for Contractor's Work Force who are not covered by the Collective Agreement. Tables 1.1, 1.2 and 1.3 list each position, and the associated Wages and Benefits to be charged for that position.
- 1.2 Positions not identified in this Appendix F, will not be reimbursable. Any changes to the positions listed in the Tables must be approved by Company, which approval shall be solely at Company discretion.
- 1.3 Contractor will be required to submit proof of payment made to each worker.

**2. APPLICABLE WORK FORCE**

- 2.1 The Wages and Benefits listed in Table 1.1 apply to staff of the Contractor, executing the Work at Site, who are not covered by the Collective Agreement.
- 2.2 Subject to Section 2.3 below, Wages and Benefits of staff of Contractor's Subcontractors (and their subcontractors of every tier), executing Work at Site, who are not covered by the Collective Agreement, are included in the Non Labour Component of the Contract Price.
- 2.3 Wages and Benefits of staff of the following Subcontractors only, who are executing Work at Site and are not covered by the Collective Agreement are to be included in the Reimbursable Cost of Labour and are to be paid in accordance with the rates listed in Table 1.3.

Subcontractor 1: Spillway Preparation

Subcontractor 2: Concrete Production

As of Effective Date, the Subcontracts for the above work have not yet been finalized. Consequently, Contractor shall submit names and rates of Subcontractor staff when these details have been finalized. The number of staff and their rates shall be subject to the approval of Company. If Contractor decides to self-perform the above itemized work, the Subcontract for that work will be deleted from Table 1.3.

- 2.4 Wages and Benefits of the Contractor's staff who are executing Work in its office in Goose Bay (three persons only) and in its office in St John's (four persons only) are to be included

in the Reimbursable Cost of Labour and are to be paid in accordance with the rates listed in Table 1.2.

**3.0 DEFINITIONS**

3.1 Regular Time Labour Rate means the Wages and Benefits to be charged for the first eight hours worked on Monday to Friday.

3.2 OT1 Labour Rate means the Wages and Benefits to be charged for hours worked in excess of eight hours Monday to Friday, and all hours worked on Saturday.

3.3 OT2 Labour Rate means the Wages and Benefits to be charged for hours worked on Sunday.

**4.0 APPLICABLE PERIOD FOR RATES LISTED AND ESCALATION**

4.1 The rates listed in this Appendix F apply to hours worked in 2013. These rates shall be increased by 5% per year in successive years. Consequently, the factor to be applied to the rates for 2013 for hours worked in each successive year shall be as listed below. Factor shall be applied from the first day of the year.

YEAR	FACTOR FOR THE YEAR
2014	1.0500
2015	1.1025
2016	1.1576
2017	1.2155
2018	1.2763

**5.0 ADJUSTMENTS FOR BURDENS**

5.1 The burden listed in Column (4) of Table 1 contains both Contractor burden and the government burdens for CPP, EI, HAPSET and WHSCC. The amount included for government CPP, EI and WHSCC, assumes that the maximum annual earnings for the worker for the year have not been reached. However, once the maximum for the year has been reached the burden listed in column (4) should include only the Contractor's portion of burden plus HAPSET.

5.2 Contractor and Company agree to use the burdens as listed in column (4) throughout the period of the Work; on Final Completion an audit will be made to identify any



overpayments for each worker and the total amount of overpayment shall be a set off against payments owing to Contractor in accordance with Article 25.10 (b).

- 5.3 Colum (4) of Table 1 includes the government burdens for CPP, EI, HAPSET and WHSCC based on the 2013 rates. Should these rates change in future years the burden in column (4) will be adjusted in accordance with the applicable rate.

Exhibit 2 - Appendix F  
 Contractor's Work Force not Covered by the Collective Agreement  
 Agreement No: CH0007-001

**TABLE 1.1**  
**CONTRACTOR'S WORK FORCE AT SITE**  
**NOT COVERED BY THE COLLECTIVE AGREEMENT**  
**RATES FOR 2013**

<i>Astaldi at Site</i> (1)	<i>Category</i> (2)	<i>Wage per Hour</i> (3)	<i>Burden</i> (4)	<i>Total Rate per hour</i> (5)	<i>Overtime 1</i> (6)	<i>Overtime 2</i> (7)	<i>Reference Sheet with Complete Details</i> (8)
Project Q.A. manager	<i>Management</i>	\$68.00	\$8.66	\$76.66	\$112.16	\$147.67	Appendix I, 1.1, Rates and Hours Sheets for Staff
Site Agent (Project Manager)	<i>Management</i>	\$79.33	\$8.89	\$88.22	\$129.50	\$170.78	Appendix I, 1.1, Rates and Hours Sheets for Staff
Deputy Project Manager	<i>Management</i>	\$85.54	\$9.10	\$94.64	\$139.13	\$183.62	Appendix I, 1.1, Rates and Hours Sheets for Staff
Quality Control Responsible	<i>Project Supervision / Project Quality Assurance</i>	\$54.40	\$8.39	\$62.79	\$91.35	\$119.92	Appendix I, 1.1, Rates and Hours Sheets for Staff
Third party Q.A. Inspector	<i>Contract Administration</i>	\$44.20	\$8.18	\$52.38	\$75.75	\$99.11	Appendix I, 1.1, Rates and Hours Sheets for Staff
Contract Adm. Responsible	<i>Contract Administration</i>	\$54.40	\$8.39	\$62.79	\$91.35	\$119.92	Appendix I, 1.1, Rates and Hours Sheets for Staff
Contract Adm. Assistant	<i>Contract Administration</i>	\$44.20	\$8.18	\$52.38	\$75.75	\$99.11	Appendix I, 1.1, Rates and Hours Sheets for Staff

Exhibit 2 - Appendix F  
 Contractor's Work Force not Covered by the Collective Agreement  
 Agreement No: CH0007-001

<i>Astaldi at Site</i> (1)	<i>Category</i> (2)	<i>Wage per Hour</i> (3)	<i>Burden</i> (4)	<i>Total Rate per hour</i> (5)	<i>Overtime 1</i> (6)	<i>Overtime 2</i> (7)	<i>Reference Sheet with Complete Details</i> (8)
Project Control Responsible	<i>Project Control</i>	\$66.41	\$8.85	\$75.26	\$110.06	\$144.87	Appendix I, 1.1, Rates and Hours Sheets for Staff
Project Control Assistant	<i>Project Control</i>	\$45.33	\$8.21	\$53.54	\$77.48	\$101.42	Appendix I, 1.1, Rates and Hours Sheets for Staff
Technical Staff	<i>Quality Control</i>	\$44.20	\$8.18	\$52.38	\$75.75	\$99.11	Appendix I, 1.1, Rates and Hours Sheets for Staff
Safety Responsible	<i>Health &amp; Safety</i>	\$51.57	\$8.33	\$59.90	\$87.02	\$114.15	Appendix I, 1.1, Rates and Hours Sheets for Staff
Safety Officer	<i>Health &amp; Safety</i>	\$44.20	\$8.18	\$52.38	\$75.75	\$99.11	Appendix I, 1.1, Rates and Hours Sheets for Staff
Representative Office Responsible	<i>Public Relations</i>	\$56.67	\$8.43	\$65.10	\$94.83	\$124.55	Appendix I, 1.1, Rates and Hours Sheets for Staff
Representative Office Assistant	<i>Public Relations</i>	\$44.61	\$8.18	\$52.79	\$76.36	\$99.93	Appendix I, 1.1, Rates and Hours Sheets for Staff
Technical Manager	<i>Technical Department</i>	\$56.67	\$8.43	\$65.10	\$94.83	\$124.55	Appendix I, 1.1, Rates and Hours Sheets for Staff
Tech. Office Responsible	<i>Technical Department</i>	\$51.68	\$8.33	\$60.01	\$87.19	\$114.37	Appendix I, 1.1, Rates and Hours Sheets for Staff
Tech. Office Assistant	<i>Technical Office</i>	\$44.61	\$8.19	\$52.80	\$76.38	\$99.95	Appendix I, 1.1, Rates and Hours Sheets for Staff

Exhibit 2 - Appendix F  
 Contractor's Work Force not Covered by the Collective Agreement  
 Agreement No: CH0007-001

<i>Astaldi at Site</i> (1)	<i>Category</i> (2)	<i>Wage per Hour</i> (3)	<i>Burden</i> (4)	<i>Total Rate per hour</i> (5)	<i>Overtime 1</i> (6)	<i>Overtime 2</i> (7)	<i>Reference Sheet with Complete Details</i> (8)
Draftman/CAD Operator	<i>Technical Office</i>	\$49.74	\$8.29	\$58.03	\$84.22	\$110.41	Appendix I, 1.1, Rates and Hours Sheets for Staff
Qty. Surveyor Responsible	<i>Quantity Survey Office</i>	\$54.40	\$8.39	\$62.79	\$91.35	\$119.92	Appendix I, 1.1, Rates and Hours Sheets for Staff
Qty. Surveyor Assistant	<i>Quantity Survey Office</i>	\$49.74	\$8.29	\$58.03	\$84.22	\$110.41	Appendix I, 1.1, Rates and Hours Sheets for Staff
Surveyor Responsible	<i>Survey Office</i>	\$54.40	\$8.39	\$62.79	\$91.35	\$119.92	Appendix I, 1.1, Rates and Hours Sheets for Staff
Senior Engineer	<i>Environment</i>	\$51.57	\$8.33	\$59.90	\$87.02	\$114.15	Appendix I, 1.1, Rates and Hours Sheets for Staff
Engineer	<i>Environment</i>	\$44.20	\$7.99	\$52.19	\$75.46	\$98.73	Appendix I, 1.1, Rates and Hours Sheets for Staff
Planning Responsible	<i>Planning</i>	\$51.57	\$8.33	\$59.90	\$87.02	\$114.15	Appendix I, 1.1, Rates and Hours Sheets for Staff
Planning Assistant	<i>Planning</i>	\$44.20	\$8.18	\$52.38	\$75.75	\$99.11	Appendix I, 1.1, Rates and Hours Sheets for Staff
Permanent Materials Responsible	<i>Permanent Materials Office</i>	\$54.40	\$8.39	\$62.79	\$91.35	\$119.92	Appendix I, 1.1, Rates and Hours Sheets for Staff
Administrative Manager	<i>Administration Management</i>	\$67.72	\$8.74	\$76.46	\$111.86	\$147.27	Appendix I, 1.1, Rates and Hours Sheets for Staff

Exhibit 2 - Appendix F  
 Contractor's Work Force not Covered by the Collective Agreement  
 Agreement No: CH0007-001

<i>Astaldi at Site</i> (1)	<i>Category</i> (2)	<i>Wage per Hour</i> (3)	<i>Burden</i> (4)	<i>Total Rate per hour</i> (5)	<i>Overtime 1</i> (6)	<i>Overtime 2</i> (7)	<i>Reference Sheet with Complete Details</i> (8)
Personnel Office Responsible	<i>Human Resources</i>	\$51.57	\$8.33	\$59.90	\$87.02	\$114.15	Appendix I, 1.1, Rates and Hours Sheets for Staff
Computer Operat./Programmer	<i>EDP Main frame</i>	\$37.40	\$8.05	\$45.45	\$65.34	\$85.24	Appendix I, 1.1, Rates and Hours Sheets for Staff
Purchasing Responsible	<i>Purchasing &amp; Custom Clearance</i>	\$51.57	\$8.33	\$59.90	\$87.02	\$114.15	Appendix I, 1.1, Rates and Hours Sheets for Staff
Warehouse Responsible	<i>Warehouse</i>	\$52.74	\$8.49	\$61.23	\$89.02	\$116.81	Appendix I, 1.1, Rates and Hours Sheets for Staff
General Services Responsible	<i>General Services</i>	\$44.20	\$8.18	\$52.38	\$75.75	\$99.11	Appendix I, 1.1, Rates and Hours Sheets for Staff
Procurement Manager	<i>Procurement</i>	\$63.21	\$8.65	\$71.86	\$104.96	\$138.07	Appendix I, 1.1, Rates and Hours Sheets for Staff
Production Manager	<i>Production Management</i>	\$94.40	\$9.27	\$103.67	\$152.68	\$201.69	Appendix I, 1.1, Rates and Hours Sheets for Staff
Deputy Production Manager	<i>Production Management</i>	\$59.50	\$8.49	\$67.99	\$99.16	\$130.33	Appendix I, 1.1, Rates and Hours Sheets for Staff
Prod. Section Chief	<i>Production Management</i>	\$51.68	\$8.33	\$60.01	\$87.19	\$114.37	Appendix I, 1.1, Rates and Hours Sheets for Staff
Planning Assistant	<i>Planning</i>	\$66.41	\$9.45	\$75.86	\$110.97	\$146.07	Appendix I, 1.1, Rates and Hours Sheets for Staff

Exhibit 2 - Appendix F  
 Contractor's Work Force not Covered by the Collective Agreement  
 Agreement No: CH0007-001

<i>Astaldi at Site</i> (1)	<i>Category</i> (2)	<i>Wage per Hour</i> (3)	<i>Burden</i> (4)	<i>Total Rate per hour</i> (5)	<i>Overtime 1</i> (6)	<i>Overtime 2</i> (7)	<i>Reference Sheet with Complete Details</i> (8)
Plant Manager	<i>Plant Management</i>	\$56.67	\$8.43	\$65.10	\$94.83	\$124.55	Appendix I, 1.1, Rates and Hours Sheets for Staff
Mech. W/shop Section Chief	<i>General Mechanical Workshop</i>	\$51.68	\$8.39	\$60.07	\$87.27	\$114.48	Appendix I, 1.1, Rates and Hours Sheets for Staff
Mech. W/shop Section Chief	<i>General Mechanical Workshop</i>	\$52.74	\$8.44	\$61.18	\$88.94	\$116.71	Appendix I, 1.1, Rates and Hours Sheets for Staff
Elec. W/shop Section Chief	<i>Electrical Mechanical Workshop</i>	\$51.68	\$8.33	\$60.01	\$87.19	\$114.37	Appendix I, 1.1, Rates and Hours Sheets for Staff
Plant Section Chief	<i>Plants</i>	\$52.74	\$8.44	\$61.18	\$88.94	\$116.71	Appendix I, 1.1, Rates and Hours Sheets for Staff

Exhibit 2 - Appendix F  
 Contractor's Work Force not Covered by the Collective Agreement  
 Agreement No: CH0007-001

**TABLE 1.2**  
**CONTRACTOR'S WORK FORCE OFF SITE OFFICES**  
**NOT COVERED BY THE COLLECTIVE AGREEMENT**  
**RATES FOR 2013**

<i>Astaldi at Goose Bay</i>	<i>Category</i>	<i>Wage per Hour</i>	<i>Burden</i>	<i>Total Rate per hour</i>	<i>Overtime 1</i>	<i>Overtime 2</i>	<i>Reference Sheet with Complete Details</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Purchasing Responsible	<i>Purchasing &amp; Custom Clearance</i>	\$51.57	\$8.33	\$ 59.90	\$ 87.02	\$ 114.15	Est Hours = 11,200 Included in Price Item 6
Purchaser	<i>Oper. Eng. - Clerical Group 3</i>			\$ 57.21	(i) \$ 85.81	\$ 114.42	Est. Hours = 10,200 Included in Price Item 6
Secretary	<i>Oper. Eng. - Clerical Group 2</i>			\$ 55.40	(ii) \$ 83.09	\$ 110.79	Est. Hours = 11,200 Included in Price Item 6

<i>Astaldi at St John's</i>	<i>Category</i>	<i>Wage per Hour</i>	<i>Burden</i>	<i>Total Rate per hour</i>	<i>Overtime 1</i>	<i>Overtime 2</i>	<i>Reference Sheet with Complete Details</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Representative Office Responsible	<i>Public Relations</i>	\$56.67	\$8.43	\$ 65.10	\$ 94.83	\$ 124.55	Est. Hours = 11,200 Included in Price Item 6
Representative Office Assistant	<i>Public Relations</i>	\$44.61	\$8.18	\$ 52.79	\$ 76.36	\$ 99.93	Est. Hours = 10,600 Included in Price Item 6
Clerk	<i>Operating Engineers - Clerical Group 2</i>			\$ 55.40	\$ 83.09	\$ 110.79	Est. Hours = 11,200 Included in Price Item 6
Secretary	<i>Oper. Eng. - Clerical Group 2</i>			\$ 55.40	\$ 83.09	\$ 110.79	Est. Hours = 11,200 Included in Price Item 6

Note, for the record: The hours listed in column (8) of this Table 1.2 were originally a part of the Rates and Hours Sheet for Table 1.1 above (Refer to Appendix I-1.1). Since these hours apply to Off-Site offices, they have been listed separately.

Exhibit 2 - Appendix F  
 Contractor's Work Force not Covered by the Collective Agreement  
 Agreement No: CH0007-001

**TABLE 1.3**  
**SUBCONTRACTOR'S WORK FORCE AT SITE**  
**NOT COVERED BY THE COLLECTIVE AGREEMENT**  
**RATES FOR 2013**

<i>Subcontractor 1 at Site</i>	<i>Category</i>	<i>Wage per Hour</i>	<i>Burden</i>	<i>Total Rate per hour</i>	<i>Overtime 1</i>	<i>Overtime 2</i>	<i>Reference Sheet with Complete Details</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

<i>Subcontractor 2 at Site</i>	<i>Category</i>	<i>Wage per Hour</i>	<i>Burden</i>	<i>Total Rate per hour</i>	<i>Overtime 1</i>	<i>Overtime 2</i>	<i>Reference Sheet with Complete Details</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

Note for the record: The rates and hours listed in this Table 1.3 were never included in the Rates and Hours Sheet for Table 1.1 above (Refer to Appendix I-1.1). They have been added as a concession to the Contractor, and it is to be expected that there will be a reduction in Contractor's own supervision because of these additions.



**EXHIBIT 2 - APPENDIX G**

**CONTRACTOR SHARE OF LABOUR COST DIFFERENCE**

Table 1 - Contractor Share of Labour Cost Difference if  
 Total Reimbursable Cost of Labour is Less than the Final Adjusted Target Cost of Labour

	Labour Cost Difference CAD Million	Company Share of Saving CAD Million	Company Cumulative Share of Saving CAD Million	Contractor Share of Saving CAD Million	Contractor Cumulative Share of Saving CAD Million
Amount by which Total Reimbursable Cost of Labour  is Less than  Final Adjusted Target Cost of Labour	First Portion From 0 to \$10	\$10.00	\$10.00	0	\$0
	Next Portion From \$10 to \$25	14.55	\$24.55	\$.45	\$0.45
	Next Portion From \$25 to \$50	\$22.25	\$46.80	\$2.75	\$3.2
	Next Portion From \$50 to \$75	\$17.50	\$64.30	\$7.50	\$10.70
	Next Portion From \$75 to \$100	\$12.50	\$76.80	\$12.50	\$23.20
	Next Portion From \$100 to \$125	\$6.00	\$82.80	\$19.00	\$42.20
	Next Portion From \$125 to \$150	\$.50	\$83.30	\$24.50	\$66.70
	Greater than \$150	All	\$83.30 + All in excess of \$150.00	0.00	\$66.70

Note: Any sharing for a part portion shall be pro rated according to the part portion.

Table 2 - Contractor Share of Labour Cost Difference (i.e. Credit to Company) if  
 Total Reimbursable Cost of Labour is Greater than the Final Adjusted Target Cost of Labour

	Labour Cost Difference CAD Million	Company Share of Excess CAD Million	Company Cumulative Share of Excess CAD Million	Contractor Credit to Company CAD Million	Contractor Cumulative Credit to Company CAD Million
Amount by which Total Reimbursable Cost of Labour  Is Greater than  Final Adjusted Target Cost of Labour	First Portion From 0 to \$10	\$10.00	\$10.00	0	\$0
	Next Portion From \$10 to \$25	14.55	\$24.55	.45	\$0.45
	Next Portion From \$25 to \$50	\$22.25	\$46.80	2.75	\$3.2
	Next Portion From \$50 to \$75	\$17.50	\$64.30	7.50	\$10.70
	Greater than \$75	0.00 (Note 2)	\$64.30 (Note 2)	All (Note 2)	\$10.70 + All in excess of \$75

Note (1): Any sharing for a part portion shall be pro rated according to the part portion.

Note (2) Contractor shall take the risk for all costs in excess of LMAX.

**APPENDIX H**

**SWORN DECLARATION**

**SWORN DECLARATION – ACCOMPANYING INVOICE FOR PAYMENT**

C A N A D A ) IN THE MATTER OF THE AGREEMENT  
 ) BETWEEN COMPANY AND  
 PROVINCE OF NEWFOUNDLAND ) **[CONTRACTOR]**  
 AND LABRADOR ) DATED AS OF **[DATE]** FOR THE  
 ) **[DESCRIPTION OF WORK]**  
 ) BEING AGREEMENT NO. **[INSERT NO.]**  
 ) (the “Agreement”)

I, **[●]**, of the City of **[●]**, in the **[Province]/[State]** of **[●],[Country]**, do solemnly declare that:

1. I am the **[title]** of **[full legal name of Contractor]** and as such have personal knowledge of the facts set out in this Declaration.
2. Defined terms used in this sworn Declaration but not defined in this Declaration have the meanings given to those terms in the Agreement.
3. All (a) payments due to Subcontractors, (b) wages and benefit payments due to any of the Contractor’s Personnel, and (c) Taxes, contributions, premiums, allowances and remittances due to any Authority, pension fund, benefit plan or union fund in accordance with a collective agreement or Applicable Laws, have been paid in a timely manner on or before the date of the Invoice and associated Payment Certificate to which this Declaration relates, subject to any withholdings or holdbacks required by Applicable Laws.
4. Title to the applicable part of the Work will pass to Company in accordance with Article 27 of the Agreement.
5. (a) There are no known outstanding Claims under the Agreement, including Claims by Contractor against Company, except for those Claims which have already been communicated to Company in a timely manner in the form of Notice required by the Agreement and which are described and listed in the Appendix to this Declaration, including an estimate of the value of each such Claim;  
 or  
 14.2.1 (b) There are outstanding Claims, including Claims by Contractor against Company, which have not been communicated to Company and each of these Claims is described and listed in the Appendix to this Declaration and is delivered to Company in a timely manner, and there are no other known outstanding Claims under the Agreement, except for those Claims which have already been communicated to Company in a timely manner in the form of Notice required by the Agreement and which are

described and listed in the Appendix to this Declaration, including an estimate of the value of each such Claim.

6. The last application for payment for which we have received payment is No. \_\_\_\_\_ dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

14.2.2 I make this Declaration conscientiously believing it to be true and knowing it is of the same force as if made under oath.

DECLARED before me at the City of \_\_\_\_\_ )  
[●], \_\_\_\_\_ )  
in the [Province]/[State] of \_\_\_\_\_ )  
[●], \_\_\_\_\_ )  
[Country] \_\_\_\_\_ )  
on [Month], [Date], 20[●] \_\_\_\_\_ )  
\_\_\_\_\_ )  
\_\_\_\_\_ )

Name:  
A Commissioner, etc.

Declarant

**APPENDIX TO SWORN DECLARATION**  
**[Date]**

(a) Claims previously communicated to Company:

Description

Estimated Value

(b) Claims not previously communicated to Company:

Description:

Estimated Value:

## **APPENDIX I**

### **TARGET COST OF LABOUR**

- 1) BREAKDOWN BY ESTIMATED CATEGORIES OF CONTRACTOR WORK FORCE, COST, AND TIME DISTRIBUTION**
- 2) ESTIMATED DISTRIBUTION OF CONTRACTOR WORKFORCE BY MONTH AND YEAR**
- 3) INDIRECT COSTS BREAKDOWN**



**1) TARGET COST OF LABOUR**

**BREAKDOWN OF CONTRACTOR WORK FORCE BY CATEGORIES OF LABOUR,  
 ESTIMATED HOURS PER YEAR, RATES, AND TIME DISTRIBUTION**

**SUMMARY**

	<b>Target Cost of Labour</b>	<b>Total Estimated Hours in Target Cost of Labour</b>
Reference: Appendix A Schedule of Price Breakdown	\$547,598,340 (1)	6,826,478 (2)
1.1 Total: Rates and Hours Sheets for Work Force not Covered by Collective Agreement	\$87,813,738	1,043,200
1.2 Total: Rates and Hours Sheets for Work Force Covered by Collective Agreement	\$459,782,815	5,783,277
<b>TOTAL 2.1 + 2.1</b>	<b>\$547,596,553</b>	<b>6,826,477</b>

Notes:

- 1) From Row (j) Appendix A, excluding the discount of \$40,000,000.
- 2) As calculated from Man hours per unit and quantities, for each of the Price Items of Appendix A
- 3) The purpose of the Rates and Hours Sheets is to ensure that the Target Cost of Labour, as stated in Appendix A, is based on the hours listed in Appendix A and the rates of the Collective Agreement and Appendix F, Table 1.1. As such, the Rates and Hours Sheets are not meant to be a contractual fixing in time of how the hours are going to be distributed. They represent Contractor’s demonstration that it has submitted a Target Cost of Labour which is based on the rates of the Collective Agreement and Appendix F Table 1.1, and the hours of Appendix A. The Target Cost of Labour is Contractor’s estimate of the Reimbursable Cost of Labour to perform the Work while respecting the Milestone Dates; and the distribution in time will be related to Contractor's Approved Construction Schedule which has yet to be submitted; Changes will be in accordance with the Articles and Exhibit 2.

**1.1 Total: Rates and Hours Sheets for Work Force Not Covered by Collective Agreement**

**1.1.1 Sheet: 1) Instructions**

<b>1) General</b>	
1.1 By completing these tables Bidder is to demonstrate that it has included for all costs of staff in the "Target Cost of Labour" including escalation.	
1.2 Bidder to enter data in the following sheets:	
3) Total Rates and Hours	
4) Escalation and Hrs Allocation	
1.3 Where information has been provided by Bidder we have included our understanding of what the Bidder has submitted. Bidder should complete any error in our understanding. Yellow highlighted cells indicate where Bidder is to enter data	
1.4 Each sheet within the Excel Workbook is described below, with completion instructions as required.	
1.5 Colour Coding:	
Yellow shaded cells are where Bidder is to enter new data as per this request.	
Orange shaded cells contain information provided by Bidder in previous response to Commercial Clarification Set No. 3, Question 3 for which no updating is required.	
Green shaded cells contain information provided by Bidder in previous response that may require editing in this information request.	
<b>2) Fixed Amounts Sheet</b>	
Contains rates for government burdens as well as for Bidder burdens. Information on this sheet was completed by Bidder in previous response to Commercial Clarification Set No. 3, Question 3.	
<b>3) Total Rates and Hours Sheet</b>	
This sheet was provided by Bidder in response to Commercial Clarification Set No.3, Question 3. The total hours in this sheet are used as the base against which the annual allocations of hours are applied.	
The rates included in this sheet (both base wage and Company burdens) were provided by Bidder in previous response and are an average rate for the entire time period from 2013 to 2018. Bidder must revise these rates to the rates for 2013.	
Bidder to adjust the total hours as required to remove positions covered by the Collective Agreement or otherwise ,make any other necessary adjustments.	
Bidder to change the Base Rate and Company Burden rate to reflect 2013 rates and to ensure consistency with Appendix A2.9.	
LCP added additional rows in case any new position names are required. These are noted as positions Staff01 through Staff07 in Rows 61 to 67.	
Any changes to staff positions or titles must be done in this sheet and these changes will flow throughout the remaining sheets.	
If a position is no longer required or is re-allocated to trades labour, do not delete the position. Instead, enter zeroes for hours and rates.	
<b>4) Escalation and Hrs Allocation Sheet</b>	
Contains assumptions on annual escalation rates and the allocation of total hours for each staff member by calendar year. Bidder to revise as required.	
Bidder to complete the yellow-shaded cells	
Annual allocations are applied to the total hours as provided by Bidder in the Total Rates and Hours sheet.	
<b>5) 2013Rates through 10) 2018Rates Sheets</b>	
No further data entry is required in these sheets.	
<b>11) Cost Summary</b>	
Summarizes total hours, costs and average hourly cost each year making up the staff component of the Target Cost of Labour.	
<b>12) Schedule Assumptions</b>	
From previous sheet provided to Bidder under Commercial Clarification Set No. 3, Question 3.	
No further data required for this sheet.	

1.1.2 Sheet: 2) Fixed Amounts

1) Govt Burdens	Rate	Max Annual Earnings	Max Annual Contribution
CPP	4.95%	47,600	2,356.20
EI	2.63%	47,400	1,247.57
HAPSET	2.00%	NA	NA
WHSCC	3.03%	54,155	1,640.90
<b>Notes</b>			
Rates for CPP, EI and HAPSET are fixed based on 2013 rates. Should they change in future years, applicable adjustments will be made.			
Bidder to enter appropriate WHSCC rate. The rate provided is for companies classified as Heavy Industrial			
<b>2) Bidder Burdens</b>			
Bidder to list and provide details of Bidder burdens in the Box below.			
<b>Details of Bidder Burdens</b>			
<p>The amount shown as Bidder Burden has been determined following indications from our Consultants experience in similar situations and according to Market Investigations in order to establish a monthly salary able to attract qualified personnel to the Project</p>			
<b>3) Overtime</b>			
Reg Time Rate refers to the rate for which the standard rate is applicable			
OT1 Rate refers to the rate for which the first level OT rate is applicable. Bidder to enter the percentage increase for the OT1 rate below.			
OT1 rate % over Reg Time Rate	50%		
OT2 Rate refers to the rate for which the second level OT rate is applicable, if Bidder has such a second level. Bidder to enter the percentage increase for the OT2 rate below			
OT2 rate % over Reg Time Rate	100%		
<b>Notes</b>			
Bidder to provide details of when overtime applies and how it is to be calculated, in the Box below.			
<b>Details of Overtime Rates and How Overtime Hours are Determined</b>			
<p>We consider a shift of 20 days work , 10 day off. There will be 3 working Saturdays and Sundays. There will be consequently 20 days x 10 hrs = 200 hours out of which 140 hours of regular time, 30 hours of working Saturdays (equivalent to 15% of 200 hours) and 30 of working Sundays (equivalent to 15% of 200 hours).</p>			

1.1.3 Sheet: 3) Total Rates and Hours

Position ID	Position and Level	Estimated Hours			% of Hrs Expected to Exceed Govt Burden Maximums	Wage Rates (\$ per hour)				Govt and Bidder Burdens at Regular Rate (\$ per hour)			Regular Time Labour Rate Summary (\$ per hour)				OT1 Labour Rate Summary (\$ per hour)				OT2 Labour Rate Summary (\$ per hour)				Total Cost (\$)																				
		Regular Time Hours	OT1 Hours	OT2 Hours		Base Rate	CPP	EI	HAPSET	WHSCC	Total Govt Burdens	Bidder Burdens	Total Burdens	Total Wage Cost (Reg Time)	Wages	Bidder Burdens	Govt Burdens	Total Reg Rate	Wages	Bidder Burdens	Govt Burdens	Total 1.5 x OT Rate	Wages	Bidder Burdens	Govt Burdens	Total 2 x OT Rate	Reg Hrs Cost	OT1 Hrs Cost	OT2 Hrs Cost	Total Cost															
																															Bidder to enter 2013 rates				Bidder to enter 2013 rate for company burdens			Bidder to enter 2013 rate for company burdens				Bidder to enter 2013 rate for company burdens			
																															Bidder to enter 2013 rates				Bidder to enter 2013 rate for company burdens			Bidder to enter 2013 rate for company burdens				Bidder to enter 2013 rate for company burdens			
1	Project Q.A. manager	6,160	3,360	1,680	77%	68.00	0.77	0.41	1.36	0.47	3.01	8.66	76.66	68.00	5.65	3.01	76.66	102.00	5.65	4.51	112.16	136.00	5.65	6.01	147.67	472,223	376,866	248,078	1,097,167																
2	Site Agent (Project Manager)	6,160	3,360	1,680	80%	79.33	0.77	0.41	1.59	0.47	3.23	8.89	88.22	79.33	5.65	3.23	88.22	119.00	5.65	4.85	129.50	158.66	5.65	6.46	170.78	533,412	435,111	286,908	1,255,430																
3	Deputy Project Manager	5,810	3,060	1,530	81%	85.54	0.81	0.43	1.71	0.49	3.44	9.10	94.64	85.54	5.65	3.44	94.64	128.31	5.65	5.16	139.13	171.08	5.65	6.89	183.63	530,914	425,734	280,939	1,237,587																
4	Quality Control Responsible	11,880	6,480	3,240	71%	54.40	0.77	0.41	1.09	0.47	2.73	8.39	62.79	54.40	5.65	2.73	62.79	81.60	5.65	4.10	91.35	108.80	5.65	5.47	119.92	745,918	591,978	389,545	1,726,441																
5	Third Party Q.A. Inspector	89,320	48,720	24,360	65%	44.20	0.77	0.41	0.88	0.47	2.53	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	4,678,889	3,690,451	2,414,390	10,783,730																
6	Contract Adm. Responsible	7,040	3,840	1,920	71%	54.40	0.77	0.41	1.09	0.47	2.73	8.39	62.79	54.40	5.65	2.73	62.79	81.60	5.65	4.10	91.35	108.80	5.65	5.47	119.92	442,025	350,802	230,249	1,023,076																
7	Contract Adm. Assistant	4,400	2,400	1,200	65%	44.20	0.77	0.41	0.88	0.47	2.53	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	230,487	181,796	118,935	531,218																
8	Project Control Responsible	6,160	3,360	1,680	73%	66.41	0.87	0.46	1.33	0.53	3.20	8.85	75.26	66.41	5.65	3.20	75.26	99.62	5.65	4.70	110.06	132.82	5.65	6.39	144.87	463,607	369,816	243,378	1,076,801																
9	Project Control Assistant	5,170	2,820	1,410	66%	45.33	0.77	0.41	0.91	0.47	2.55	8.21	53.54	45.33	5.65	2.55	53.54	68.00	5.65	3.83	77.48	90.66	5.65	5.10	101.42	276,781	218,485	142,999	638,265																
10	Technical Staff	45,980	25,080	12,540	65%	44.20	0.77	0.41	0.88	0.47	2.53	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	2,408,591	1,899,764	1,242,876	5,551,231																
11	Safety Responsible	7,040	3,840	1,920	70%	51.57	0.77	0.41	1.03	0.47	2.68	8.33	59.90	51.57	5.65	2.68	59.90	77.36	5.65	4.02	87.02	103.14	5.65	5.35	114.15	421,704	334,175	219,165	975,043																
12	Safety Officer	57,640	31,440	15,720	65%	44.20	0.77	0.41	0.88	0.47	2.53	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	3,019,382	2,381,522	1,558,055	6,958,959																
13	Representative Office Responsible	12,320	6,720	3,360	73%	56.67	0.77	0.41	1.13	0.47	2.78	8.43	65.10	56.67	5.65	2.78	65.10	85.01	5.65	4.17	94.83	113.34	5.65	5.56	124.55	802,071	637,243	418,496	1,857,810																
14	Representative Office Assistant	9,900	5,400	2,700	65%	44.61	0.76	0.41	0.89	0.47	2.53	8.18	52.79	44.61	5.65	2.53	52.79	66.92	5.65	3.80	76.36	89.22	5.65	5.06	99.93	522,665	412,369	269,824	1,204,858																
15	Technical Manager	6,160	3,360	1,680	75%	56.67	0.77	0.41	1.13	0.47	2.78	8.43	65.10	56.67	5.65	2.78	65.10	85.01	5.65	4.17	94.83	113.34	5.65	5.56	124.55	401,036	318,621	209,248	928,905																
16	Tech. Office Responsible	5,500	3,000	1,500	70%	51.68	0.77	0.41	1.03	0.47	2.68	8.33	60.01	51.68	5.65	2.68	60.01	77.52	5.65	4.02	87.19	103.36	5.65	5.36	114.37	330,072	261,578	171,558	763,209																
17	Tech. Office Assistant	30,690	16,740	8,370	65%	44.61	0.77	0.41	0.89	0.47	2.54	8.19	52.80	44.61	5.65	2.54	52.80	66.92	5.65	3.81	76.38	89.22	5.65	5.08	99.95	1,620,479	1,278,523	836,574	3,735,576																
18	Draftman/CAD Operator	33,330	18,180	9,090	69%	49.74	0.77	0.41	0.99	0.47	2.64	8.29	58.03	49.74	5.65	2.64	58.03	74.61	5.65	3.96	84.22	99.48	5.65	5.28	110.41	1,934,287	1,531,204	1,003,671	4,469,162																
19	Qty. Surveyor Responsible	6,160	3,360	1,680	71%	54.40	0.77	0.41	1.09	0.47	2.73	8.39	62.79	54.40	5.65	2.73	62.79	81.60	5.65	4.10	91.35	108.80	5.65	5.47	119.92	386,772	306,951	201,468	895,192																
20	Qty. Surveyor Assistant	6,050	3,300	1,650	69%	49.74	0.77	0.41	0.99	0.47	2.64	8.29	58.03	49.74	5.65	2.64	58.03	74.61	5.65	3.96	84.22	99.48	5.65	5.28	110.41	351,108	277,941	182,184	811,234																
21	Surveyor Responsible	6,380	3,480	1,740	71%	54.40	0.77	0.41	1.09	0.47	2.73	8.39	62.79	54.40	5.65	2.73	62.79	81.60	5.65	4.10	91.35	108.80	5.65	5.47	119.92	400,586	317,914	208,663	927,163																
22	Senior Engineer	25,960	14,160	7,080	70%	51.57	0.77	0.41	1.03	0.47	2.68	8.33	59.90	51.57	5.65	2.68	59.90	77.36	5.65	4.02	87.02	103.14	5.65	5.35	114.15	1,555,032	1,232,269	806,169	3,593,470																
23	Engineer	3,960	2,160	1,080	69%	44.20	0.68	0.36	0.88	0.41	2.34	8.05	52.19	44.20	5.65	2.34	52.19	66.30	5.65	3.50	75.46	88.40	5.65	4.67	98.73	206,672	162,989	106,624	476,284																
24	Planning Responsible	6,490	3,540	1,770	70%	51.57	0.77	0.41	1.03	0.47	2.68	8.33	59.90	51.57	5.65	2.68	59.90	77.36	5.65	4.02	87.02	103.14	5.65	5.35	114.15	388,758	308,067	202,042	898,868																
25	Planning Assistant	6,160	3,360	1,680	65%	44.20	0.77	0.41	0.88	0.47	2.53	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	322,682	254,514	166,510	743,706																
26	Permanent Materials Responsible	5,170	2,820	1,410	71%	54.40	0.77	0.41	1.09	0.47	2.73	8.39	62.79	54.40	5.65	2.73	62.79	81.60	5.65	4.10	91.35	108.80	5.65	5.47	119.92	324,612	257,620	169,089	751,322																
27	Administrative Manager	7,040	3,840	1,920	76%	67.72	0.81	0.43	1.35	0.49	3.09	8.74	76.46	67.72	5.65	3.09	76.46	101.58	5.65	4.63	111.86	135.44	5.65	6.17	147.27	538,283	429,557	282,753	1,250,593																
28	Personnel Office Responsible	20,240	11,040	5,520	70%	51.57	0.77	0.41	1.03	0.47	2.68	8.33	59.90	51.57	5.65	2.68	59.90	77.36	5.65	4.02	87.02	103.14	5.65	5.35	114.15	1,212,398	960,752	630,098	2,803,248																
29	Computer Operat./Programmer	11,440	6,240	3,120	59%	37.40	0.77	0.41	0.75	0.47	2.39	8.05	45.45	37.40	5.65	2.39	45.45	56.10	5.65	3.59	65.34	74.80	5.65	4.79	85.24	519,919	407,748	265,952	1,193,618																
30	Purchasing Responsible	18,480	10,080	5,040	70%	51.57	0.77	0.41	1.03	0.47	2.68	8.33	59.90	51.57	5.65	2.68	59.90	77.36	5.65	4.02	87.02	103.14	5.65	5.35	114.15	1,106,972	877,208	576,307	2,559,487																
31	Warehouse Responsible	6,160	3,360	1,680	68%	52.74	0.83	0.44	1.05	0.51	2.84	8.49	61.23	52.74	5.65	2.84	61.23	79.11	5.65	4.25	89.02	105.48	5.65	5.67	116.81	377,174	299,098	196,232	872,504																
32	General Services Responsible	6,160	3,360	1,680	65%	44.20	0.77	0.41	0.88	0.47	2.53	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	322,682	254,514	166,510	743,706																
33	Procurement Manager	5,720	3,120	1,560	74%	63.21	0.81	0.43	1.26	0.49	3.00	8.65	71.86	63.21	5.65	3.00	71.86	94.82	5.65	4.50	104.96	126.42	5.65	5.99	138.07	411,044	327,488	215,385	953,917																
34	Production Manager	7,040	3,840	1,920	83%	94.40	0.81	0.43	1.89	0.49	3.62	9.27	103.67	94.40	5.65	3.62	103.67	141.60	5.65	5.43	152.68	188.80	5.65	7.24	201.69	729,867	586,308	387,254	1,703,430																
35	Deputy Production Manager	4,730	2,580	1,290	74%	59.50	0.77	0.41	1.19	0.47	2.84	8.49	67.99	59.50	5.65	2.84	67.99	89.25	5.65	4.25																									

1.1.4 Sheet: 4) Escalation and Hrs Allocation

	2013	2014	2015	2016	2017	2018														
% Change to base rate	0.0%	5.0%	5.0%	5.0%	5.0%	5.0%														
% Change to Company burdens	0.0%	5.0%	5.0%	5.0%	5.0%	5.0%														
<b>Position ID</b>	<b>Hours per year (% of total)</b>																			
1	Project Q.A. manager	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
2	Site Agent (Project Manager)	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
3	Deputy Project Manager	16.9%	19.0%	21.9%	22.0%	15.4%	4.8%	100.0%												
4	Quality Control Responsible	8.7%	20.9%	24.1%	24.2%	16.9%	5.2%	100.0%												
5	Third party Q.A. Inspector	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
6	Contract Adm. Responsible	13.8%	19.8%	22.7%	22.8%	15.9%	5.0%	100.0%												
7	Contract Adm. Assistant	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
8	Project Control Responsible	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
9	Project Control Assistant	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
10	Technical Staff	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
11	Safety Responsible	13.8%	19.8%	22.7%	22.8%	15.9%	5.0%	100.0%												
12	Safety Officer	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
13	Representative Office Responsible	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
14	Representative Office Assistant	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
15	Technical Manager	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
16	Tech. Office Responsible	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
17	Tech. Office Assistant	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
18	Draftman/CAD Operator	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
19	Qty. Surveyor Responsible	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
20	Qty. Surveyor Assistant	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
21	Surveyor Responsible	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
22	Senior Engineer	8.1%	21.1%	24.2%	24.3%	17.0%	5.3%	100.0%												
23	Engineer	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
24	Planning Responsible	14.8%	19.5%	22.5%	22.5%	15.7%	5.0%	100.0%												
25	Planning Assistant	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
26	Permanent Materials Responsible	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
27	Administrative Manager	13.8%	19.8%	22.7%	22.8%	15.9%	5.0%	100.0%												
28	Personnel Office Responsible	10.0%	20.6%	23.7%	23.8%	16.6%	5.3%	100.0%												
29	Computer Operat./Programmer	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
30	Purchasing Responsible	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
31	Warehouse Responsible	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
32	General Services Responsible	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
33	Procurement Manager	16.6%	19.1%	22.0%	22.1%	15.4%	4.8%	100.0%												
34	Production Manager	13.8%	19.8%	22.7%	22.8%	15.9%	5.0%	100.0%												
35	Deputy Production Manager	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
36	Prod. Section Chief	6.2%	21.5%	24.8%	24.8%	17.3%	5.4%	100.0%												
37	Planning Assistant	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
38	Plant Manager	16.0%	19.2%	22.1%	22.2%	15.5%	5.0%	100.0%												
39	Mech. W/shop Section Chief	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
40	Mech. W/shop Section Chief	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
41	Elec. W/shop Section Chief	1.4%	22.6%	26.0%	26.1%	18.2%	5.7%	100.0%												
42	Plant Section Chief	13.8%	19.8%	22.7%	22.8%	15.9%	5.0%	100.0%												

Bidder to enter annual escalation factors  
and  
Annual allocation of hours per employee  
The percentages provided in these cells are for illustrative purposes only.

1.1.5 Sheet: 5) 2013 Rates

Position ID	2013 Rates Position and Level	Estimated Hours			Wage Rates (\$ per hour)	Govt and Bidder Burdens at Regular Rate (\$ per hour)							Regular Time Labour Rate Summary (\$ per hour)				OT1 Labour Rate Summary (\$ per hour)				OT2 Labour Rate Summary (\$ per hour)				Total Cost (\$)						
		Regular Time Hours	OT1 Hours	OT2 Hours		% of Hrs Expected to Exceed Govt Burdens Maximums	Rates calculated automatically from Total Rates and Hours sheet							Total Wage Cost (Reg Time)	Wages	Bidder Burdens	Govt Burdens	Total Reg Rate	Wages	Bidder Burdens	Govt Burdens	Total 1.5 x OT Rate	Wages	Bidder Burdens	Govt Burdens	Total 2 x OT Rate	Reg Hrs Cost	OT1 Hours Cost	OT2 Hours Cost	Total Cost	Avg rate
							Base Rate	CPP	EI	HAPSET	WHSCC	Total Govt Burdens	Bidder Burdens																		
1	Project Q.A. manager	86	47	24	77%	68.00	0.77	0.41	1.36	0.47	3.01	5.65	8.66	76.66	68.00	5.65	3.01	76.66	102.00	5.65	4.51	112.16	136.00	5.65	6.01	147.67	6,611	5,276	3,473	15,360	97.96
2	Site Agent (Project Manager)	86	47	24	80%	79.33	0.77	0.41	1.59	0.47	3.23	5.65	8.89	88.22	79.33	5.65	3.23	88.22	119.00	5.65	4.85	129.50	158.66	5.65	6.46	170.78	7,608	6,092	4,017	17,716	112.98
3	Deputy Project Manager	948	517	259	81%	85.54	0.81	0.43	1.71	0.49	3.44	5.65	9.10	94.64	85.54	5.65	3.44	94.64	128.31	5.65	5.16	139.13	171.08	5.65	6.89	183.62	89,725	71,949	47,479	209,152	121.33
4	Quality Control Responsible	1,034	564	282	71%	54.40	0.77	0.41	1.09	0.47	2.73	5.65	8.39	62.79	54.40	5.65	2.73	62.79	81.60	5.65	4.10	91.35	108.80	5.65	5.47	119.92	64,895	51,502	33,803	150,200	79.93
5	Third party Q.A. Inspector	1,250	682	341	65%	44.20	0.77	0.41	0.88	0.47	2.53	5.65	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	65,504	51,666	33,801	150,972	66.40
6	Contract Adm. Responsible	972	530	265	71%	54.40	0.77	0.41	1.09	0.47	2.73	5.65	8.39	62.79	54.40	5.65	2.73	62.79	81.60	5.65	4.10	91.35	108.80	5.65	5.47	119.92	61,000	48,411	31,774	141,185	79.93
7	Contract Adm. Assistant	62	34	17	65%	44.20	0.77	0.41	0.88	0.47	2.53	5.65	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	3,227	2,545	1,665	7,437	66.40
8	Project Control Responsible	86	47	24	73%	66.41	0.87	0.46	1.33	0.53	3.20	5.65	8.85	75.26	66.41	5.65	3.20	75.26	99.62	5.65	4.80	110.06	132.82	5.65	6.39	144.87	6,490	5,177	3,407	15,075	96.14
9	Project Control Assistant	72	39	20	66%	45.33	0.77	0.41	0.91	0.47	2.55	5.65	8.21	53.54	45.33	5.65	2.55	53.54	68.00	5.65	3.83	77.48	90.66	5.65	5.10	101.42	3,875	3,059	2,002	8,936	67.90
10	Technical Staff	644	351	176	65%	44.20	0.77	0.41	0.88	0.47	2.53	5.65	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	33,720	26,597	17,400	77,717	66.40
11	Safety Responsible	972	530	265	70%	51.57	0.77	0.41	1.03	0.47	2.68	5.65	8.33	59.90	51.57	5.65	2.68	59.90	77.36	5.65	4.02	87.02	103.14	5.65	5.35	114.15	58,195	46,116	30,245	134,556	76.18
12	Safety Officer	807	440	220	65%	44.20	0.77	0.41	0.88	0.47	2.53	5.65	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	42,771	33,341	21,813	97,425	66.40
13	Representative Office Responsible	172	94	47	73%	56.67	0.77	0.41	1.13	0.47	2.78	5.65	8.43	65.10	56.67	5.65	2.78	65.10	85.01	5.65	4.17	94.83	113.34	5.65	5.56	124.55	11,229	8,921	5,859	26,009	82.94
14	Representative Office Assistant	139	76	38	65%	44.61	0.76	0.41	0.89	0.47	2.53	5.65	8.18	52.79	44.61	5.65	2.53	52.79	66.92	5.65	3.80	76.36	89.22	5.65	5.06	99.93	7,317	5,773	3,778	16,868	66.94
15	Technical Manager	86	47	24	73%	56.67	0.77	0.41	1.13	0.47	2.78	5.65	8.43	65.10	56.67	5.65	2.78	65.10	85.01	5.65	4.17	94.83	113.34	5.65	5.56	124.55	5,614	4,461	2,929	13,005	82.94
16	Tech. Office Responsible	77	42	21	70%	51.68	0.77	0.41	1.03	0.47	2.68	5.65	8.33	60.01	51.68	5.65	2.68	60.01	77.52	5.65	4.02	87.19	103.36	5.65	5.36	114.37	4,621	3,662	2,402	10,685	76.32
17	Tech. Office Assistant	430	234	117	65%	44.61	0.77	0.41	0.89	0.47	2.54	5.65	8.19	52.80	44.61	5.65	2.54	52.80	66.92	5.65	3.81	76.38	89.22	5.65	5.08	99.95	22,687	17,899	11,712	52,298	66.95
18	Draftman/CAD Operator	467	255	127	69%	49.74	0.77	0.41	0.99	0.47	2.64	5.65	8.29	58.03	49.74	5.65	2.64	58.03	74.61	5.65	3.96	84.22	99.48	5.65	5.28	110.41	27,080	21,437	14,051	62,568	73.75
19	Qty. Surveyor Responsible	86	47	24	71%	54.40	0.77	0.41	1.09	0.47	2.73	5.65	8.39	62.79	54.40	5.65	2.73	62.79	81.60	5.65	4.10	91.35	108.80	5.65	5.47	119.92	5,415	4,297	2,821	12,533	79.93
20	Qty. Surveyor Assistant	85	46	23	69%	49.74	0.77	0.41	0.99	0.47	2.64	5.65	8.29	58.03	49.74	5.65	2.64	58.03	74.61	5.65	3.96	84.22	99.48	5.65	5.28	110.41	4,916	3,891	2,551	11,357	73.75
21	Surveyor Responsible	89	49	24	71%	54.40	0.77	0.41	1.09	0.47	2.73	5.65	8.39	62.79	54.40	5.65	2.73	62.79	81.60	5.65	4.10	91.35	108.80	5.65	5.47	119.92	5,608	4,451	2,921	12,980	79.93
22	Senior Engineer	2,103	1,147	573	70%	51.57	0.77	0.41	1.03	0.47	2.68	5.65	8.33	59.90	51.57	5.65	2.68	59.90	77.36	5.65	4.02	87.02	103.14	5.65	5.35	114.15	125,958	99,814	65,462	291,233	76.18
23	Engineer	55	30	15	69%	44.20	0.68	0.36	0.88	0.41	2.34	5.65	7.99	52.19	44.20	5.65	2.34	52.19	66.30	5.65	3.50	75.46	88.40	5.65	4.67	98.73	2,893	2,282	1,493	6,668	66.15
24	Planning Responsible	961	524	262	70%	51.57	0.77	0.41	1.03	0.47	2.68	5.65	8.33	59.90	51.57	5.65	2.68	59.90	77.36	5.65	4.02	87.02	103.14	5.65	5.35	114.15	57,536	45,594	29,902	133,032	76.18
25	Planning Assistant	86	47	24	65%	44.20	0.77	0.41	0.88	0.47	2.53	5.65	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	4,518	3,563	2,381	10,412	66.40
26	Permanent Materials Responsible	72	39	20	71%	54.40	0.77	0.41	1.09	0.47	2.73	5.65	8.39	62.79	54.40	5.65	2.73	62.79	81.60	5.65	4.10	91.35	108.80	5.65	5.47	119.92	4,545	3,607	2,367	10,519	79.93
27	Administrative Manager	972	530	265	76%	67.72	0.81	0.43	1.35	0.49	3.09	5.65	8.74	76.46	67.72	5.65	3.09	76.46	101.58	5.65	4.63	111.86	135.44	5.65	6.17	147.27	74,283	59,279	39,020	172,582	97.70
28	Personnel Office Responsible	2,024	1,104	552	70%	51.57	0.77	0.41	1.03	0.47	2.68	5.65	8.33	59.90	51.57	5.65	2.68	59.90	77.36	5.65	4.02	87.02	103.14	5.65	5.35	114.15	121,240	96,075	63,010	280,325	76.18
29	Computer Operat./Programmer	160	87	44	59%	37.40	0.77	0.41	0.75	0.47	2.39	5.65	8.05	45.45	37.40	5.65	2.39	45.45	56.10	5.65	3.59	65.34	74.80	5.65	4.79	85.24	7,279	5,708	3,723	16,711	57.39
30	Purchasing Responsible	259	141	71	70%	51.57	0.77	0.41	1.03	0.47	2.68	5.65	8.33	59.90	51.57	5.65	2.68	59.90	77.36	5.65	4.02	87.02	103.14	5.65	5.35	114.15	15,498	12,281	8,054	35,833	76.18
31	Warehouse Responsible	86	47	24	68%	52.74	0.83	0.44	1.05	0.51	2.84	5.65	8.49	61.23	52.74	5.65	2.84	61.23	79.11	5.65	4.25	89.02	105.48	5.65	5.67	116.81	5,280	4,187	2,747	12,215	77.90
32	General Services Responsible	86	47	24	65%	44.20	0.77	0.41	0.88	0.47	2.53	5.65	8.18	52.38	44.20	5.65	2.53	52.38	66.30	5.65	3.79	75.75	88.40	5.65	5.06	99.11	4,518	3,563	2,381	10,412	66.40
33	Procurement Manager	950	518	259	74%	63.21	0.81	0.43	1.26	0.49	3.00	5.65	8.65	71.86	63.21	5.65	3.00	71.86	94.82	5.65	4.50	104.96	126.42	5.65	5.99	138.07	68,233	54,363	35,754	158,350	91.72
34	Production Manager	972	530	265	83%	94.40	0.81	0.43	1.89	0.49	3.62	5.65	9.27	103.67	94.40	5.65	3.62	103.67	141.60	5.65	5.43	152.68	188.80	5.65	7.24	201.69	100,722	80,911	53,441	235,073	133.08
35	Deputy Production Manager	66	36	18	74%	59.50	0.77	0.41	1.19</																						



1.1.6 Sheet: 6) 2014 Rates

Position ID	2014 Rates Position and Level	Estimated Hours				Wage Rates (\$ per hour)	Govt and Bidder Burdens at Regular Rate (\$ per hour)							Regular Time Labour Rate Summary (\$ per hour)				OT1 Labour Rate Summary (\$ per hour)				OT2 Labour Rate Summary (\$ per hour)				Total Cost (\$)				Avg rate		
		Regular Time Hours	OT1 Hours	OT2 Hours	% of Hrs Expected to Exceed Govt Burden Maximums		Base Rate	CPP	EI	HAPSET	WHSCC	Total Govt Burdens	Bidder Burdens	Total Burdens	Total Wage Cost (Reg Time)	Wages	Bidder Burdens	Govt Burdens	Total Reg Rate	Wages	Bidder Burdens	Govt Burdens	Total 1.5x OT Rate	Wages	Bidder Burdens	Govt Burdens	Total 2x OT Rate	Reg Hrs Cost	OT1 Hours Cost		OT2 Hours Cost	Total Cost
1	Project Q.A. manager	1,392	759	380	77%	71.40	0.81	0.43	1.43	0.49	3.16	5.94	9.09	80.49	71.40	5.94	3.16	80.49	107.10	5.94	4.73	117.77	142.80	5.94	6.31	155.05	112,059	89,430	58,869	260,358	102.86	
2	Site Agent (Project Manager)	1,392	759	380	80%	83.30	0.81	0.43	1.67	0.49	3.39	5.94	9.33	92.63	83.30	5.94	3.39	92.63	124.94	5.94	5.09	135.97	166.59	5.94	6.79	179.32	128,952	103,252	68,083	300,287	118.63	
3	Deputy Project Manager	1,066	581	291	81%	89.82	0.85	0.45	1.80	0.52	3.62	5.94	9.55	99.37	89.82	5.94	3.62	99.37	134.73	5.94	5.42	146.09	179.63	5.94	7.23	192.80	105,917	84,934	56,047	246,899	127.40	
4	Quality Control Responsible	2,483	1,354	677	71%	57.12	0.81	0.43	1.14	0.49	2.87	5.94	8.81	65.93	57.12	5.94	2.87	65.93	85.68	5.94	4.31	95.92	114.24	5.94	5.74	125.92	163,692	129,909	85,266	378,867	83.92	
5	Third party Q.A. Inspector	20,186	11,011	5,505	65%	46.41	0.81	0.43	0.93	0.49	2.66	5.94	8.59	55.00	46.41	5.94	2.66	55.00	69.62	5.94	3.98	79.54	92.82	5.94	5.31	104.07	1,110,300	875,744	572,935	2,558,979	69.72	
6	Contract Adm. Assistant	1,394	760	380	71%	57.12	0.81	0.43	1.14	0.49	2.87	5.94	8.81	65.93	57.12	5.94	2.87	65.93	85.68	5.94	4.31	95.92	114.24	5.94	5.74	125.92	91,897	72,932	47,869	212,698	83.92	
7	Contract Adm. Assistant	994	542	271	65%	46.41	0.81	0.43	0.93	0.49	2.66	5.94	8.59	55.00	46.41	5.94	2.66	55.00	69.62	5.94	3.98	79.54	92.82	5.94	5.31	104.07	54,695	43,140	28,223	126,058	69.72	
8	Project Control Responsible	1,392	759	380	73%	69.73	0.92	0.49	1.39	0.56	3.36	5.94	9.29	79.02	69.73	5.94	3.36	79.02	104.60	5.94	5.04	115.57	139.46	5.94	6.71	152.11	110,014	87,757	57,754	255,525	100.95	
9	Project Control Assistant	1,168	637	319	66%	47.60	0.81	0.43	0.95	0.49	2.68	5.94	8.62	56.21	47.60	5.94	2.68	56.21	71.39	5.94	4.02	81.35	95.19	5.94	5.36	106.49	65,680	51,846	33,934	151,460	71.30	
10	Technical Staff	10,391	5,668	2,834	65%	46.41	0.81	0.43	0.93	0.49	2.66	5.94	8.59	55.00	46.41	5.94	2.66	55.00	69.62	5.94	3.98	79.54	92.82	5.94	5.31	104.07	571,559	450,814	294,934	1,317,307	69.72	
11	Safety Responsible	1,394	760	380	70%	54.15	0.81	0.43	1.08	0.49	2.81	5.94	8.75	62.90	54.15	5.94	2.81	62.90	81.22	5.94	4.22	91.38	108.30	5.94	5.62	119.86	87,672	69,475	45,564	202,711	79.98	
12	Safety Officer	13,027	7,105	3,553	65%	46.41	0.81	0.43	0.93	0.49	2.66	5.94	8.59	55.00	46.41	5.94	2.66	55.00	69.62	5.94	3.98	79.54	92.82	5.94	5.31	104.07	716,499	565,135	369,726	1,651,361	69.72	
13	Representative Office Responsible	2,784	1,519	759	73%	59.50	0.81	0.43	1.19	0.49	2.92	5.94	8.85	68.36	59.50	5.94	2.92	68.36	89.26	5.94	4.38	99.57	119.01	5.94	5.84	130.78	190,332	151,218	99,309	440,858	87.08	
14	Representative Office Assistant	2,237	1,220	610	65%	46.84	0.80	0.43	0.94	0.49	2.66	5.94	8.59	55.43	46.84	5.94	2.66	55.43	70.26	5.94	3.99	80.18	93.68	5.94	5.31	104.93	124,028	97,855	64,029	285,913	70.28	
15	Technical Manager	1,392	759	380	73%	59.50	0.81	0.43	1.19	0.49	2.92	5.94	8.85	68.36	59.50	5.94	2.92	68.36	89.26	5.94	4.38	99.57	119.01	5.94	5.84	130.78	95,166	75,609	49,655	220,429	87.08	
16	Tech. Office Responsible	1,243	678	339	70%	54.26	0.81	0.43	1.09	0.49	2.81	5.94	8.75	63.01	54.26	5.94	2.81	63.01	81.40	5.94	4.22	91.55	108.53	5.94	5.63	120.09	78,326	62,073	40,711	181,110	80.14	
17	Tech. Office Assistant	6,936	3,783	1,892	65%	46.84	0.81	0.43	0.94	0.49	2.66	5.94	8.60	55.44	46.84	5.94	2.66	55.44	70.26	5.94	4.00	80.19	93.68	5.94	5.33	104.95	384,540	303,393	198,519	886,452	70.29	
18	Draftman/CAD Operator	7,533	4,109	2,054	69%	52.23	0.81	0.43	1.04	0.49	2.77	5.94	8.71	60.94	52.23	5.94	2.77	60.94	78.34	5.94	4.16	88.44	104.45	5.94	5.54	115.94	459,006	363,355	238,171	1,060,532	77.44	
19	Qty. Surveyor Responsible	1,392	759	380	71%	57.12	0.81	0.43	1.14	0.49	2.87	5.94	8.81	65.93	57.12	5.94	2.87	65.93	85.68	5.94	4.31	95.92	114.24	5.94	5.74	125.92	91,781	72,840	47,808	212,429	83.92	
20	Qty. Surveyor Assistant	1,367	746	373	69%	52.23	0.81	0.43	1.04	0.49	2.77	5.94	8.71	60.94	52.23	5.94	2.77	60.94	78.34	5.94	4.16	88.44	104.45	5.94	5.54	115.94	85,955	65,955	43,232	192,506	77.44	
21	Surveyor Responsible	1,442	786	393	71%	57.12	0.81	0.43	1.14	0.49	2.87	5.94	8.81	65.93	57.12	5.94	2.87	65.93	85.68	5.94	4.31	95.92	114.24	5.94	5.74	125.92	95,059	75,441	49,516	220,016	83.92	
22	Senior Engineer	5,478	2,988	1,494	70%	54.15	0.81	0.43	1.08	0.49	2.81	5.94	8.75	62.90	54.15	5.94	2.81	62.90	81.22	5.94	4.22	91.38	108.30	5.94	5.62	119.86	344,517	273,009	179,506	796,576	79.98	
23	Engineer	895	488	244	69%	46.41	0.71	0.38	0.93	0.44	2.45	5.94	8.39	54.80	46.41	5.94	2.45	54.80	69.62	5.94	3.68	79.23	92.82	5.94	4.91	103.66	49,043	38,677	25,302	113,022	69.46	
24	Planning Responsible	1,266	690	345	70%	54.15	0.81	0.43	1.08	0.49	2.81	5.94	8.75	62.90	54.15	5.94	2.81	62.90	81.22	5.94	4.22	91.38	108.30	5.94	5.62	119.86	79,598	63,077	41,368	184,043	79.98	
25	Planning Assistant	1,392	759	380	65%	46.41	0.81	0.43	0.93	0.49	2.66	5.94	8.59	55.00	46.41	5.94	2.66	55.00	69.62	5.94	3.98	79.54	92.82	5.94	5.31	104.07	76,572	60,396	39,513	176,481	69.72	
26	Permanent Materials Responsible	1,168	637	319	71%	57.12	0.81	0.43	1.14	0.49	2.87	5.94	8.81	65.93	57.12	5.94	2.87	65.93	85.68	5.94	4.31	95.92	114.24	5.94	5.74	125.92	77,031	61,133	40,125	178,289	83.92	
27	Administrative Manager	1,394	760	380	76%	71.11	0.85	0.45	1.42	0.52	3.24	5.94	9.18	80.28	71.11	5.94	3.24	80.28	106.66	5.94	4.86	117.46	142.21	5.94	6.48	154.63	111,909	89,305	58,784	259,998	102.59	
28	Personnel Office Responsible	4,169	2,274	1,137	70%	54.15	0.81	0.43	1.08	0.49	2.81	5.94	8.75	62.90	54.15	5.94	2.81	62.90	81.22	5.94	4.22	91.38	108.30	5.94	5.62	119.86	262,242	207,811	136,290	606,343	79.98	
29	Computer Operat./Programmer	2,585	1,410	705	59%	39.27	0.81	0.43	0.79	0.49	2.51	5.94	8.45	47.72	39.27	5.94	2.51	47.72	58.91	5.94	3.77	68.61	78.54	5.94	5.03	89.50	123,377	96,759	63,110	283,246	60.25	
30	Purchasing Responsible	4,176	2,278	1,139	70%	54.15	0.81	0.43	1.08	0.49	2.81	5.94	8.75	62.90	54.15	5.94	2.81	62.90	81.22	5.94	4.22	91.38	108.30	5.94	5.62	119.86	262,685	208,162	136,520	607,366	79.98	
31	Warehouse Responsible	1,392	759	380	68%	55.38	0.87	0.46	1.11	0.53	2.98	5.94	8.91	64.29	55.38	5.94	2.98	64.29	83.07	5.94	4.47	93.47	110.75	5.94	5.95	122.65	89,503	70,976	46,566	207,045	81.80	
32	General Services Responsible	1,392	759	380	65%	46.41	0.81	0.43	0.93	0.49	2.66	5.94	8.59	55.00	46.41	5.94	2.66	55.00	69.62	5.94	3.98	79.54	92.82	5.94	5.31	104.07	76,572	60,396	39,513	176,481	69.72	
33	Procurement Manager	1,093	596	298	74%	66.37	0.85	0.45	1.33	0.52	3.15	5.94	9.08	75.45	66.37	5.94	3.15	75.45	99.56	5.94	4.72	110.21	132.74	5.94	6.29	144.97	82,435	65,678	43,196	191,308	96.31	
34	Production Manager	1,394	760	380	83%	99.12	0.85	0.45	1.98	0.52	3.80	5.94	9.74	108.86	99.12																	

1.1.7 Sheet: 7) 2015 Rates

Position ID	2015 Rates	Estimated Hours				Wage Rates (\$ per hour)	Govt and Bidder Burdens at Regular Rate (\$ per hour)						Regular Time Labour Rate Summary (\$ per hour)					OT1 Labour Rate Summary (\$ per hour)				OT2 Labour Rate Summary (\$ per hour)				Total Cost (\$)				Avg rate	
		Regular Time Hours	OT1 Hours	OT2 Hours	% of Hrs Expected to Exceed Govt Burden		Base Rate	CPP	EI	HAPSET	WHSCC	Total Govt Burdens	Bidder Burdens	Total Burdens	Total Wage Cost (Reg Time)	Wages	Bidder Burdens	Govt Burdens	Total Reg Rate	Wages	Bidder Burdens	Govt Burdens	Total 1.5 x OT Rate	Wages	Bidder Burdens	Govt Burdens	Total 2 x OT Rate	Reg Hrs Cost	OT1 Hours Cost		OT2 Hours Cost
1	Project Q.A. manager	1,602	874	437	77%	74.97	0.85	0.45	1.50	0.52	3.31	6.23	9.55	84.52	74.97	6.23	3.31	84.52	112.46	6.23	4.97	123.66	149.94	6.23	6.63	162.80	135,363	108,029	71,111	314,503	108.00
2	Site Agent (Project Manager)	1,602	874	437	80%	87.46	0.85	0.45	1.75	0.52	3.56	6.23	9.80	97.26	87.46	6.23	3.56	97.26	131.19	6.23	5.35	142.77	174.92	6.23	7.13	188.28	155,769	124,724	82,242	362,735	124.57
3	Deputy Project Manager	1,229	670	335	81%	94.31	0.89	0.47	1.89	0.55	3.80	6.23	10.03	104.34	94.31	6.23	3.80	104.34	141.46	6.23	5.69	153.39	188.62	6.23	7.59	202.44	128,188	102,792	67,832	298,812	133.77
4	Quality Control Responsible	2,863	1,562	781	71%	59.98	0.85	0.45	1.20	0.52	3.01	6.23	9.25	69.22	59.98	6.23	3.01	69.22	89.96	6.23	4.52	100.72	119.95	6.23	6.03	132.21	198,192	157,290	103,237	458,720	88.12
5	Third party Q.A. Inspector	23,223	12,667	6,334	65%	48.73	0.85	0.45	0.97	0.52	2.79	6.23	9.02	57.75	48.73	6.23	2.79	57.75	73.10	6.23	4.18	83.51	97.46	6.23	5.58	109.27	1,341,204	1,057,868	692,085	3,091,156	73.21
6	Contract Adm. Responsible	1,598	872	436	71%	59.98	0.85	0.45	1.20	0.52	3.01	6.23	9.25	69.22	59.98	6.23	3.01	69.22	89.96	6.23	4.52	100.72	119.95	6.23	6.03	132.21	110,625	87,794	57,624	256,043	88.12
7	Contract Adm. Assistant	1,144	624	312	65%	48.73	0.85	0.45	0.97	0.52	2.79	6.23	9.02	57.75	48.73	6.23	2.79	57.75	73.10	6.23	4.18	83.51	97.46	6.23	5.58	109.27	66,669	52,112	34,093	152,274	73.21
8	Project Control Responsible	1,602	874	437	73%	73.22	0.96	0.51	1.46	0.59	3.52	6.23	9.76	82.98	73.22	6.23	3.52	82.98	109.83	6.23	5.29	121.35	146.43	6.23	7.05	159.72	132,893	106,008	69,764	308,665	106.00
9	Project Control Assistant	1,344	733	367	66%	49.98	0.85	0.45	1.00	0.52	2.81	6.23	9.05	59.02	49.98	6.23	2.81	59.02	74.96	6.23	4.22	85.42	99.55	6.23	5.63	111.81	79,339	62,629	40,991	182,959	74.86
10	Technical Staff	11,955	6,521	3,260	65%	48.73	0.85	0.45	0.97	0.52	2.79	6.23	9.02	57.75	48.73	6.23	2.79	57.75	73.10	6.23	4.18	83.51	97.46	6.23	5.58	109.27	690,423	544,567	356,270	1,591,260	73.21
11	Safety Responsible	1,598	872	436	70%	56.86	0.85	0.45	1.14	0.52	2.95	6.23	9.19	66.04	56.86	6.23	2.95	66.04	85.28	6.23	4.43	95.94	113.71	6.23	5.90	125.85	105,539	83,633	54,850	244,022	83.98
12	Safety Officer	14,986	8,174	4,087	65%	48.73	0.85	0.45	0.97	0.52	2.79	6.23	9.02	57.75	48.73	6.23	2.79	57.75	73.10	6.23	4.18	83.51	97.46	6.23	5.58	109.27	865,506	682,663	446,616	1,994,786	73.21
13	Representative Office Responsible	3,203	1,747	874	73%	62.48	0.85	0.45	1.25	0.52	3.06	6.23	9.30	71.78	62.48	6.23	3.06	71.78	93.72	6.23	4.60	104.55	124.96	6.23	6.13	137.32	229,914	182,666	119,962	532,541	91.44
14	Representative Office Assistant	2,574	1,404	702	65%	49.18	0.84	0.45	0.98	0.52	2.79	6.23	9.02	58.21	49.18	6.23	2.79	58.21	73.77	6.23	4.18	84.19	98.37	6.23	5.58	110.18	149,822	118,206	77,345	345,373	73.80
15	Technical Manager	1,602	874	437	73%	62.48	0.85	0.45	1.25	0.52	3.06	6.23	9.30	71.78	62.48	6.23	3.06	71.78	93.72	6.23	4.60	104.55	124.96	6.23	6.13	137.32	114,957	91,333	59,981	266,271	91.44
16	Tech. Office Responsible	1,430	780	390	70%	56.98	0.85	0.45	1.14	0.52	2.95	6.23	9.19	66.16	56.98	6.23	2.95	66.16	85.47	6.23	4.43	96.13	113.95	6.23	5.91	126.10	94,615	74,981	49,177	218,774	84.14
17	Tech. Office Assistant	7,979	4,352	2,176	65%	49.18	0.85	0.45	0.98	0.52	2.80	6.23	9.03	58.21	49.18	6.23	2.80	58.21	73.77	6.23	4.20	84.20	98.37	6.23	5.60	110.19	464,510	366,489	239,804	1,070,803	73.81
18	Draftman/CAD Operator	8,666	4,727	2,363	69%	54.84	0.85	0.45	1.10	0.52	2.91	6.23	9.14	63.98	54.84	6.23	2.91	63.98	82.26	6.23	4.37	92.86	109.68	6.23	5.82	121.73	554,463	438,920	287,702	1,281,085	81.31
19	Qty. Surveyor Responsible	1,602	874	437	71%	59.98	0.85	0.45	1.20	0.52	3.01	6.23	9.25	69.22	59.98	6.23	3.01	69.22	89.96	6.23	4.52	100.72	119.95	6.23	6.03	132.21	110,868	87,988	57,751	256,607	88.12
20	Qty. Surveyor Assistant	1,573	858	429	69%	54.84	0.85	0.45	1.10	0.52	2.91	6.23	9.14	63.98	54.84	6.23	2.91	63.98	82.26	6.23	4.37	92.86	109.68	6.23	5.82	121.73	100,645	79,672	52,223	232,540	81.31
21	Surveyor Responsible	1,659	905	452	71%	59.98	0.85	0.45	1.20	0.52	3.01	6.23	9.25	69.22	59.98	6.23	3.01	69.22	89.96	6.23	4.52	100.72	119.95	6.23	6.03	132.21	114,828	91,130	59,813	265,771	88.12
22	Senior Engineer	6,282	3,427	1,713	70%	56.86	0.85	0.45	1.14	0.52	2.95	6.23	9.19	66.04	56.86	6.23	2.95	66.04	85.28	6.23	4.43	95.94	113.71	6.23	5.90	125.85	414,890	328,776	215,624	959,289	83.98
23	Engineer	1,030	562	281	69%	48.73	0.75	0.40	0.97	0.46	2.58	6.23	8.81	57.54	48.73	6.23	2.58	57.54	73.10	6.23	3.86	83.19	97.46	6.23	5.15	108.85	59,242	46,721	30,564	136,527	72.93
24	Planning Responsible	1,460	797	398	70%	56.86	0.85	0.45	1.14	0.52	2.95	6.23	9.19	66.04	56.86	6.23	2.95	66.04	85.28	6.23	4.43	95.94	113.71	6.23	5.90	125.85	96,436	76,420	50,119	222,975	83.98
25	Planning Assistant	1,602	874	437	65%	48.73	0.85	0.45	0.97	0.52	2.79	6.23	9.02	57.75	48.73	6.23	2.79	57.75	73.10	6.23	4.18	83.51	97.46	6.23	5.58	109.27	92,497	72,956	47,730	213,183	73.21
26	Permanent Materials Responsible	1,344	733	367	71%	59.98	0.85	0.45	1.20	0.52	3.01	6.23	9.25	69.22	59.98	6.23	3.01	69.22	89.96	6.23	4.52	100.72	119.95	6.23	6.03	132.21	93,050	73,847	48,469	215,366	88.12
27	Administrative Manager	1,598	872	436	76%	74.66	0.89	0.47	1.49	0.55	3.40	6.23	9.64	84.30	74.66	6.23	3.40	84.30	111.99	6.23	5.10	123.33	149.32	6.23	6.81	162.36	134,715	107,504	70,764	312,983	107.72
28	Personnel Office Responsible	4,797	2,616	1,308	70%	56.86	0.85	0.45	1.14	0.52	2.95	6.23	9.19	66.04	56.86	6.23	2.95	66.04	85.28	6.23	4.43	95.94	113.71	6.23	5.90	125.85	316,791	251,037	164,640	732,468	83.98
29	Computer Operat./Programmer	2,974	1,622	811	59%	41.23	0.85	0.45	0.82	0.52	2.64	6.23	8.87	50.11	41.23	6.23	2.64	50.11	61.85	6.23	3.96	72.04	82.47	6.23	5.28	93.98	149,035	116,881	76,235	342,151	63.27
30	Purchasing Responsible	4,805	2,621	1,310	70%	56.86	0.85	0.45	1.14	0.52	2.95	6.23	9.19	66.04	56.86	6.23	2.95	66.04	85.28	6.23	4.43	95.94	113.71	6.23	5.90	125.85	317,314	251,452	164,912	733,677	83.98
31	Warehouse Responsible	1,602	874	437	66%	58.15	0.92	0.49	1.16	0.56	3.13	6.23	9.36	67.51	58.15	6.23	3.13	67.51	87.22	6.23	4.69	98.14	116.29	6.23	6.25	128.78	108,117	85,736	56,250	250,109	85.89
32	General Services Responsible	1,602	874	437	65%	48.73	0.85	0.45	0.97	0.52	2.79	6.23	9.02	57.75	48.73	6.23	2.79	57.75	73.10	6.23	4.18	83.51	97.46	6.23	5.58	109.27	92,497	72,956	47,730	213,183	73.21
33	Procurement Manager	1,258	686	343	74%	69.69	0.89	0.47	1.39	0.55	3.30	6.23	9.54	79.23	69.69	6.23	3.30	79.23	104.53	6.23	4.96	115.72	139.38	6.23	6.61	152.22	99,699	79,432	52,242	231,373	101.12
34	Production Manager	1,598	872	436	83%	104.08	0.89	0.47	2.08	0.55	3.99	6.23	10.22	114.30	104.08	6.23	3.99	114.30	156.11	6.23	5.99	168.33	208.15	6.23	7.98						



1.1.8 Sheet: 8) 2016 Rates

Position ID	2016 Rates Position and Level	Estimated Hours				Wage Rates (\$ per hour)	Govt and Bidder Burdens at Regular Rate (\$ per hour)						Regular Time Labour Rate Summary (\$ per hour)				OT1 Labour Rate Summary (\$ per hour)				OT2 Labour Rate Summary (\$ per hour)				Total Cost (\$)				Avg rate			
		Regular Time Hours	OT1 Hours	OT2 Hours	% of Hrs Expected to Exceed Govt Burden		Base Rate	CPP	EI	HAPSET	WHSCC	Total Govt Burdens	Bidder Burdens	Total Burdens	Total Wage Cost (Reg Time)	Wages	Bidder Burdens	Govt Burdens	Total Reg Rate	Wages	Bidder Burdens	Govt Burdens	Total 1.5 x OT Rate	Wages	Bidder Burdens	Govt Burdens	Total 2 x OT Rate	Reg Hrs Cost		OT1 Hours Cost	OT2 Hours Cost	Total Cost
1	Project Q.A. manager	1,608	877	438	77%	78.72	0.89	0.47	1.57	0.54	3.48	6.55	10.29	88.74	78.72	6.55	3.48	88.74	118.08	6.55	5.22	129.84	157.44	6.55	6.96	170.94	142,678	118,866	74,954	331,498	113.40	
2	Site Agent (Project Manager)	1,608	877	438	80%	91.83	0.89	0.47	1.84	0.54	3.74	6.55	10.29	102.12	91.83	6.55	3.74	102.12	137.75	6.55	5.61	149.91	183.67	6.55	7.48	197.70	164,186	131,464	86,686	382,337	130.79	
3	Deputy Project Manager	1,234	673	337	81%	99.02	0.94	0.50	1.98	0.57	3.99	6.55	10.53	109.55	99.02	6.55	3.99	109.55	148.53	6.55	5.98	161.06	198.05	6.55	7.97	212.56	135,212	108,425	71,549	315,186	140.46	
4	Quality Control Responsible	2,875	1,568	784	71%	62.97	0.89	0.47	1.26	0.54	3.16	6.55	9.71	72.68	62.97	6.55	3.16	72.68	94.46	6.55	4.75	105.75	125.95	6.55	6.33	138.82	208,965	165,840	108,849	483,654	92.53	
5	Third party Q.A. Inspector	23,313	12,716	6,358	65%	51.17	0.89	0.47	1.02	0.54	2.93	6.55	9.47	60.64	51.17	6.55	2.93	60.64	76.75	6.55	4.39	87.69	102.33	6.55	5.86	114.74	1,413,680	1,115,033	729,484	3,258,198	76.87	
6	Contract Adm. Responsible	1,605	876	438	71%	62.97	0.89	0.47	1.26	0.54	3.16	6.55	9.71	72.68	62.97	6.55	3.16	72.68	94.46	6.55	4.75	105.75	125.95	6.55	6.33	138.82	116,668	92,590	60,772	270,029	92.53	
7	Contract Adm. Assistant	1,148	626	313	65%	51.17	0.89	0.47	1.02	0.54	2.93	6.55	9.47	60.64	51.17	6.55	2.93	60.64	76.75	6.55	4.39	87.69	102.33	6.55	5.86	114.74	69,639	54,928	35,935	160,502	76.87	
8	Project Control Assistant	1,608	877	438	73%	76.88	1.01	0.54	1.54	0.62	3.70	6.55	10.25	87.12	76.88	6.55	3.70	87.12	115.32	6.55	5.55	127.41	153.76	6.55	7.40	167.70	140,074	111,736	73,534	325,345	111.30	
9	Project Control Responsible	1,349	736	368	66%	52.48	0.89	0.47	1.05	0.54	2.95	6.55	9.50	61.97	52.48	6.55	2.95	61.97	78.71	6.55	4.43	89.69	104.95	6.55	5.91	117.40	83,627	66,013	43,206	192,845	78.60	
10	Technical Staff	12,001	6,546	3,273	65%	51.17	0.89	0.47	1.02	0.54	2.93	6.55	9.47	60.64	51.17	6.55	2.93	60.64	76.75	6.55	4.39	87.69	102.33	6.55	5.86	114.74	727,732	573,995	375,523	1,677,250	76.87	
11	Safety Responsible	1,605	876	438	70%	59.70	0.89	0.47	1.19	0.54	3.10	6.55	9.64	69.34	59.70	6.55	3.10	69.34	89.55	6.55	4.65	100.74	119.40	6.55	6.20	132.14	111,304	88,202	57,846	257,351	88.18	
12	Safety Officer	15,044	8,206	4,103	65%	51.17	0.89	0.47	1.02	0.54	2.93	6.55	9.47	60.64	51.17	6.55	2.93	60.64	76.75	6.55	4.39	87.69	102.33	6.55	5.86	114.74	912,276	719,553	470,751	2,102,581	76.87	
13	Representative Office Responsible	3,216	1,754	877	72%	65.60	0.89	0.47	1.31	0.54	3.22	6.55	9.76	75.37	65.60	6.55	3.22	75.37	98.40	6.55	4.83	109.78	131.21	6.55	6.43	144.18	242,338	192,537	126,444	561,319	96.01	
14	Representative Office Assistant	2,584	1,409	705	65%	51.64	0.88	0.47	1.03	0.54	2.93	6.55	9.47	61.12	51.64	6.55	2.93	61.12	77.46	6.55	4.39	88.40	103.28	6.55	5.86	115.69	157,918	124,593	81,525	364,036	77.49	
15	Technical Manager	1,608	877	438	73%	65.60	0.89	0.47	1.31	0.54	3.22	6.55	9.76	75.37	65.60	6.55	3.22	75.37	98.40	6.55	4.83	109.78	131.21	6.55	6.43	144.18	121,169	96,268	63,222	280,660	96.01	
16	Tech. Office Responsible	1,436	783	392	70%	59.83	0.89	0.47	1.20	0.54	3.10	6.55	9.65	69.47	59.83	6.55	3.10	69.47	89.74	6.55	4.65	100.94	119.65	6.55	6.20	132.40	99,728	79,033	51,835	230,596	88.35	
17	Tech. Office Assistant	8,010	4,369	2,185	65%	51.64	0.89	0.47	1.03	0.54	2.94	6.55	9.48	61.12	51.64	6.55	2.94	61.12	77.46	6.55	4.41	88.41	103.28	6.55	5.88	115.70	489,612	386,293	252,763	1,128,667	77.50	
18	Draftman/CAD Operator	8,699	4,745	2,372	69%	57.58	0.89	0.47	1.15	0.54	3.06	6.55	9.60	67.18	57.58	6.55	3.06	67.18	86.37	6.55	4.58	97.50	115.16	6.55	6.11	127.82	584,426	462,638	303,249	1,350,313	85.37	
19	Qty. Surveyor Responsible	1,608	877	438	71%	62.97	0.89	0.47	1.26	0.54	3.16	6.55	9.71	72.68	62.97	6.55	3.16	72.68	94.46	6.55	4.75	105.75	125.95	6.55	6.33	138.82	116,859	92,742	60,872	270,473	92.53	
20	Qty. Surveyor Assistant	1,579	861	431	69%	57.58	0.89	0.47	1.15	0.54	3.06	6.55	9.60	67.18	57.58	6.55	3.06	67.18	86.37	6.55	4.58	97.50	115.16	6.55	6.11	127.82	106,084	83,977	55,045	245,106	85.37	
21	Surveyor Responsible	1,665	908	454	71%	62.97	0.89	0.47	1.26	0.54	3.16	6.55	9.71	72.68	62.97	6.55	3.16	72.68	94.46	6.55	4.75	105.75	125.95	6.55	6.33	138.82	121,033	96,055	63,046	280,133	92.53	
22	Senior Engineer	6,308	3,441	1,720	70%	59.70	0.89	0.47	1.19	0.54	3.10	6.55	9.64	69.34	59.70	6.55	3.10	69.34	89.55	6.55	4.65	100.74	119.40	6.55	6.20	132.14	437,435	346,641	227,340	1,011,416	88.18	
23	Engineer	1,034	564	282	69%	51.17	0.78	0.42	1.02	0.48	2.70	6.55	9.25	60.42	51.17	6.55	2.70	60.42	76.75	6.55	4.06	87.35	102.33	6.55	5.41	114.29	62,444	49,245	32,215	143,905	76.58	
24	Planning Responsible	1,460	797	398	70%	59.70	0.89	0.47	1.19	0.54	3.10	6.55	9.64	69.34	59.70	6.55	3.10	69.34	89.55	6.55	4.65	100.74	119.40	6.55	6.20	132.14	101,258	80,241	52,625	234,124	88.18	
25	Planning Assistant	1,608	877	438	65%	51.17	0.89	0.47	1.02	0.54	2.93	6.55	9.47	60.64	51.17	6.55	2.93	60.64	76.75	6.55	4.39	87.69	102.33	6.55	5.86	114.74	97,495	76,899	50,309	224,703	76.87	
26	Permanent Materials Responsible	1,349	736	368	71%	62.97	0.89	0.47	1.26	0.54	3.16	6.55	9.71	72.68	62.97	6.55	3.16	72.68	94.46	6.55	4.75	105.75	125.95	6.55	6.33	138.82	98,078	77,837	51,089	227,004	92.53	
27	Administrative Manager	1,605	876	438	76%	78.39	0.94	0.50	1.57	0.57	3.57	6.55	10.12	88.51	78.39	6.55	3.57	88.51	117.59	6.55	5.36	129.50	156.79	6.55	7.15	170.48	142,074	113,377	74,629	330,080	113.10	
28	Personnel Office Responsible	4,817	2,628	1,314	70%	59.70	0.89	0.47	1.19	0.54	3.10	6.55	9.64	69.34	59.70	6.55	3.10	69.34	89.55	6.55	4.65	100.74	119.40	6.55	6.20	132.14	334,034	264,701	173,601	772,336	88.18	
29	Computer Operat./Programmer	2,986	1,629	814	59%	43.30	0.89	0.47	0.87	0.54	2.77	6.55	9.32	52.61	43.30	6.55	2.77	52.61	64.94	6.55	4.16	75.64	86.59	6.55	5.54	98.68	157,088	123,197	80,355	360,640	66.43	
30	Purchasing Responsible	4,823	2,631	1,315	70%	59.70	0.89	0.47	1.19	0.54	3.10	6.55	9.64	69.34	59.70	6.55	3.10	69.34	89.55	6.55	4.65	100.74	119.40	6.55	6.20	132.14	334,461	265,040	173,823	773,324	88.18	
31	Warehouse Responsible	1,608	877	438	68%	61.05	0.96	0.51	1.22	0.59	3.28	6.55	9.83	70.88	61.05	6.55	3.28	70.88	91.58	6.55	4.92	103.05	122.11	6.55	6.56	135.22	113,959	90,370	59,290	263,619	90.18	
32	General Services Responsible	1,608	877	438	65%	51.17	0.89	0.47	1.02	0.54	2.93	6.55	9.47	60.64	51.17	6.55	2.93	60.64	76.75	6.55	4.39	87.69	102.33	6.55	5.86	114.74	97,495	76,899	50,309	224,703	76.87	
33	Procurement Manager	1,254	690	345	74%	73.17	0.94	0.50	1.46	0.57	3.47	6.55	10.01	83.19	73.17	6.55	3.47	83.19	109.76	6.55	5.20	121.51	146.35	6.55	6.94	158.83	105,159	83,783	55,103	244,045	106.18	
34	Production Manager	1,605	876	438	83%	109.28	0.94	0.50	2.19	0																						

1.1.9 Sheet: 9) 2017 Rates

Position	2017 Rates			Estimated Hours	% of Hrs Expected to Exceed Govt Burden	Wage Rates (\$)				Govt and Bidder Burdens at Regular Rate (\$ per hour)				Regular Time Labour Rate Summary (\$ per hour)				OT1 Labour Rate Summary (\$ per hour)				OT2 Labour Rate Summary (\$ per hour)				Total Cost (\$)					
	Position and Level	Regular Time Hours	OT1 Hours			OT2 Hours	Base Rate	CPP	EI	HAPSET	WHSCC	Total Govt Burdens	Bidder Burdens	Total Burdens	Total Wage Cost (Reg Time)	Wages	Bidder Burdens	Govt Burdens	Total Reg Rate	Wages	Bidder Burdens	Govt Burdens	Total 1.5 x OT Rate	Wages	Bidder Burdens	Govt Burdens	Total 2 x OT Rate	Reg Hrs Cost	OT1 Hours Cost	OT2 Hours Cost	Total Cost
1	Project Q.A. manager	1,121	612	306	77%	82.65	0.93	0.50	1.65	0.57	3.65	6.87	10.53	93.18	82.65	6.87	3.65	93.18	123.98	6.87	5.48	136.33	165.31	6.87	7.31	179.49	104,466	83,371	54,880	242,718	119.07
2	Site Agent (Project Manager)	1,121	612	306	80%	96.43	0.93	0.50	1.93	0.57	3.93	6.87	10.80	107.23	96.43	6.87	3.93	107.23	144.64	6.87	5.89	157.40	192.83	6.87	7.86	207.58	120,215	96,256	63,470	279,941	137.33
3	Deputy Project Manager	864	471	236	81%	103.97	0.98	0.52	2.08	0.60	4.19	6.87	11.06	115.03	103.97	6.87	4.19	115.03	156.96	6.87	6.28	169.11	205.95	6.87	8.37	223.19	99,381	79,692	52,588	231,661	147.48
4	Quality Control Responsible	2,008	1,095	548	71%	66.12	0.93	0.50	1.32	0.57	3.32	6.87	10.20	76.32	66.12	6.87	3.32	76.32	99.19	6.87	4.98	111.04	132.25	6.87	6.65	145.77	153,227	121,604	79,815	354,646	97.15
5	Third party Q.A. Inspector	16,256	8,867	4,434	65%	53.73	0.93	0.50	1.07	0.57	3.07	6.87	9.95	63.67	53.73	6.87	3.07	63.67	80.59	6.87	4.61	92.07	107.45	6.87	6.15	120.47	1,035,074	816,409	534,117	2,385,600	80.71
6	Contract Adm. Responsible	1,119	611	305	71%	66.12	0.93	0.50	1.32	0.57	3.32	6.87	10.20	76.32	66.12	6.87	3.32	76.32	99.19	6.87	4.98	111.04	132.25	6.87	6.65	145.77	85,428	67,798	44,499	197,725	97.15
7	Contract Adm. Assistant	801	437	218	65%	53.73	0.93	0.50	1.07	0.57	3.07	6.87	9.95	63.67	53.73	6.87	3.07	63.67	80.59	6.87	4.61	92.07	107.45	6.87	6.15	120.47	50,989	40,217	26,311	117,517	80.71
8	Project Control Responsible	1,121	612	306	73%	80.72	1.06	0.56	1.61	0.65	3.89	6.87	10.76	91.48	80.72	6.87	3.89	91.48	121.08	6.87	5.83	133.78	161.44	6.87	7.77	176.09	102,560	81,812	53,841	238,212	116.86
9	Project Control Assistant	941	513	257	66%	55.10	0.93	0.50	1.10	0.57	3.10	6.87	9.97	65.07	55.10	6.87	3.10	65.07	82.65	6.87	4.65	94.17	110.20	6.87	6.20	123.27	61,230	48,334	31,635	141,198	82.53
10	Technical Staff	8,368	4,565	2,282	65%	53.73	0.93	0.50	1.07	0.57	3.07	6.87	9.95	63.67	53.73	6.87	3.07	63.67	80.59	6.87	4.61	92.07	107.45	6.87	6.15	120.47	532,834	420,270	274,952	1,228,055	80.71
11	Safety Responsible	1,119	611	305	70%	62.68	0.93	0.50	1.25	0.57	3.25	6.87	10.13	72.81	62.68	6.87	3.25	72.81	94.03	6.87	4.88	105.78	125.37	6.87	6.51	138.75	81,501	64,584	42,357	188,442	92.59
12	Safety Officer	10,490	5,722	2,861	65%	53.73	0.93	0.50	1.07	0.57	3.07	6.87	9.95	63.67	53.73	6.87	3.07	63.67	80.59	6.87	4.61	92.07	107.45	6.87	6.15	120.47	667,954	526,845	344,676	1,539,476	80.71
13	Representative Office Responsible	2,242	1,223	612	73%	68.88	0.93	0.50	1.38	0.57	3.38	6.87	10.25	79.13	68.88	6.87	3.38	79.13	103.32	6.87	5.07	115.26	137.77	6.87	6.76	151.39	177,436	140,972	92,581	410,989	100.81
14	Representative Office Assistant	1,802	983	491	65%	54.22	0.93	0.49	1.08	0.57	3.08	6.87	9.95	64.17	54.22	6.87	3.08	64.17	81.34	6.87	4.61	92.82	108.45	6.87	6.15	121.47	115,625	91,225	59,691	266,541	81.36
15	Technical Manager	1,121	612	306	73%	68.88	0.93	0.50	1.38	0.57	3.38	6.87	10.25	79.13	68.88	6.87	3.38	79.13	103.32	6.87	5.07	115.26	137.77	6.87	6.76	151.39	88,718	70,486	46,290	205,494	100.81
16	Tech. Office Responsible	1,001	546	273	70%	62.82	0.93	0.50	1.26	0.57	3.26	6.87	10.13	72.95	62.82	6.87	3.26	72.95	94.23	6.87	4.88	105.98	125.63	6.87	6.51	139.02	73,019	57,867	37,953	168,839	92.77
17	Tech. Office Assistant	5,586	3,047	1,523	65%	54.22	0.93	0.50	1.08	0.57	3.08	6.87	9.96	64.18	54.22	6.87	3.08	64.18	81.34	6.87	4.63	92.83	108.45	6.87	6.17	121.49	358,486	282,838	185,069	826,392	81.37
18	Draftman/CAD Operator	6,066	3,309	1,654	69%	60.46	0.93	0.50	1.21	0.57	3.21	6.87	10.08	70.54	60.46	6.87	3.21	70.54	90.69	6.87	4.81	102.38	120.92	6.87	6.42	134.21	427,907	338,736	222,034	988,677	89.64
19	Qty. Surveyor Responsible	1,121	612	306	71%	66.12	0.93	0.50	1.32	0.57	3.32	6.87	10.20	76.32	66.12	6.87	3.32	76.32	99.19	6.87	4.98	111.04	132.25	6.87	6.65	145.77	85,563	67,904	44,569	198,036	97.15
20	Qty. Surveyor Assistant	1,101	601	300	69%	60.46	0.93	0.50	1.21	0.57	3.21	6.87	10.08	70.54	60.46	6.87	3.21	70.54	90.69	6.87	4.81	102.38	120.92	6.87	6.42	134.21	77,673	61,487	40,303	179,463	89.64
21	Surveyor Responsible	1,161	633	317	71%	66.12	0.93	0.50	1.32	0.57	3.32	6.87	10.20	76.32	66.12	6.87	3.32	76.32	99.19	6.87	4.98	111.04	132.25	6.87	6.65	145.77	88,618	70,330	46,161	205,109	97.15
22	Senior Engineer	4,413	2,407	1,204	70%	62.68	0.93	0.50	1.25	0.57	3.25	6.87	10.13	72.81	62.68	6.87	3.25	72.81	94.03	6.87	4.88	105.78	125.37	6.87	6.51	138.75	321,326	254,631	166,997	742,954	92.59
23	Engineer	721	393	197	69%	53.73	0.82	0.44	1.07	0.50	2.84	6.87	9.71	63.44	53.73	6.87	2.84	63.44	80.59	6.87	4.26	91.72	107.45	6.87	5.68	120.00	45,720	36,057	23,588	105,365	80.41
24	Planning Responsible	1,019	556	278	70%	62.68	0.93	0.50	1.25	0.57	3.25	6.87	10.13	72.81	62.68	6.87	3.25	72.81	94.03	6.87	4.88	105.78	125.37	6.87	6.51	138.75	74,188	58,790	38,557	171,535	92.59
25	Planning Assistant	1,121	612	306	65%	53.73	0.93	0.50	1.07	0.57	3.07	6.87	9.95	63.67	53.73	6.87	3.07	63.67	80.59	6.87	4.61	92.07	107.45	6.87	6.15	120.47	71,384	56,304	36,836	164,524	80.71
26	Permanent Materials Responsible	941	513	257	71%	66.12	0.93	0.50	1.32	0.57	3.32	6.87	10.20	76.32	66.12	6.87	3.32	76.32	99.19	6.87	4.98	111.04	132.25	6.87	6.65	145.77	71,811	56,991	37,406	166,209	97.15
27	Administrative Manager	1,119	611	305	78%	82.81	0.98	0.52	1.65	0.60	3.75	6.87	10.62	92.94	82.81	6.87	3.75	92.94	123.47	6.87	5.63	135.97	164.63	6.87	7.50	179.00	104,031	83,019	54,646	241,697	118.76
28	Personnel Office Responsible	3,360	1,833	916	70%	62.68	0.93	0.50	1.25	0.57	3.25	6.87	10.13	72.81	62.68	6.87	3.25	72.81	94.03	6.87	4.88	105.78	125.37	6.87	6.51	138.75	244,630	193,855	127,137	565,623	92.59
29	Computer Operat./Programmer	2,082	1,136	568	59%	45.46	0.93	0.50	0.91	0.57	2.91	6.87	9.78	55.24	45.46	6.87	2.91	55.24	68.19	6.87	4.36	79.43	90.92	6.87	5.82	103.61	115,018	90,203	58,834	264,055	69.75
30	Purchasing Responsible	3,363	1,835	917	70%	62.68	0.93	0.50	1.25	0.57	3.25	6.87	10.13	72.81	62.68	6.87	3.25	72.81	94.03	6.87	4.88	105.78	125.37	6.87	6.51	138.75	244,887	194,058	127,271	566,215	92.59
31	Warehouse Responsible	1,121	612	306	68%	64.11	1.01	0.54	1.28	0.62	3.45	6.87	10.32	74.42	64.11	6.87	3.45	74.42	96.16	6.87	5.17	108.20	128.21	6.87	6.89	141.08	83,439	66,167	43,411	193,017	94.69
32	General Services Responsible	1,121	612	306	65%	53.73	0.93	0.50	1.07	0.57	3.07	6.87	9.95	63.67	53.73	6.87	3.07	63.67	80.59	6.87	4.61	92.07	107.45	6.87	6.15	120.47	71,384	56,304	36,836	164,524	80.71
33	Procurement Manager	881	480	240	74%	76.83	0.98	0.52	1.54	0.60	3.64	6.87	10.52	87.35	76.83	6.87	3.64	87.35	115.25	6.87	5.46	127.58	153.66	6.87	7.29	167.82	76,942	61,302	40,318	178,562	111.49
34	Production Manager	1,119	611	305	83%	114.74	0.98	0.52	2.29	0.60	4.40	6.87	11.27	126.02	114.74	6.87	4.40	126.02	172.12	6.87	6.60	185.59	229.49	6.87	8.80	245.16	141,058				

1.1.10 Sheet: 10) 2018 Rates

Position ID	2018 Rates	Estimated Hours			% of Hrs Expected to Exceed Govt Burden Maximums	Wage Rates (\$)					Govt and Bidder Burdens at Regular Rate (\$ per hour)				Regular Time Labour Rate Summary (\$ per hour)				OT1 Labour Rate Summary (\$ per hour)				OT2 Labour Rate Summary (\$ per hour)				Total Cost (\$)				
		Regular Time Hours	OT1 Hours	OT2 Hours		Base Rate	CPP	EI	HAPSET	WHSCC	Total Govt Burdens	Bidder Burdens	Total Burdens	Total Cost (Reg Time)	Wages	Bidder Burdens	Govt Burdens	Total Reg Rate	Wages	Bidder Burdens	Govt Burdens	Total 1.5 x OT Rate	Wages	Bidder Burdens	Govt Burdens	Total 2 x OT Rate	Reg Hrs Cost	OT1 Hours Cost	OT2 Hours Cost	Total Cost	Avg rate
1	Project Q.A. manager	351	192	96	77%	86.79	0.98	0.52	1.74	0.60	3.84	7.22	11.05	97.84	86.79	7.22	3.84	97.84	130.18	7.22	5.75	148.15	173.57	7.22	7.67	188.46	34,333	27,416	18,047	79,817	123.03
2	Site Agent (Project Manager)	351	192	96	69%	105.25	0.98	0.52	2.02	0.60	4.32	7.22	13.84	112.99	105.25	7.22	4.32	112.99	150.77	7.22	6.39	164.27	202.69	7.22	8.25	248.46	39,333	33,653	20,872	93,858	149.20
3	Deputy Project Manager	269	147	73	81%	109.17	1.03	0.55	2.18	0.63	4.39	7.22	11.61	120.78	109.17	7.22	4.39	120.78	163.76	7.22	6.59	177.57	218.35	7.22	8.79	234.35	32,525	26,081	17,211	75,816	154.85
4	Quality Control Responsible	618	337	168	71%	69.43	0.98	0.52	1.39	0.60	3.49	7.22	10.71	80.13	69.43	7.22	3.49	80.13	104.14	7.22	5.23	115.59	138.86	7.22	6.98	153.05	49,504	39,288	25,786	114,578	102.01
5	Third party Q.A. Inspector	5,091	2,777	1,389	65%	56.41	0.98	0.52	1.13	0.60	3.23	7.22	10.44	66.86	56.41	7.22	3.23	66.86	84.62	7.22	4.84	96.68	112.82	7.22	6.46	126.50	340,380	268,473	175,642	784,495	84.75
6	Contract Adm. Responsible	352	192	96	71%	69.43	0.98	0.52	1.39	0.60	3.49	7.22	10.71	80.13	69.43	7.22	3.49	80.13	104.14	7.22	5.23	115.59	138.86	7.22	6.98	153.05	28,207	22,386	14,693	65,287	102.01
7	Contract Adm. Assistant	251	137	68	65%	56.41	0.98	0.52	1.13	0.60	3.23	7.22	10.44	66.86	56.41	7.22	3.23	66.86	84.62	7.22	4.84	96.68	112.82	7.22	6.46	126.50	16,767	13,225	8,652	38,645	84.75
8	Project Control Responsible	351	192	96	73%	84.76	1.11	0.59	1.70	0.68	4.08	7.22	11.30	96.05	84.76	7.22	4.08	96.05	127.14	7.22	6.12	140.47	169.52	7.22	8.16	184.89	33,727	26,903	17,705	78,335	122.71
9	Project Control Assistant	295	161	80	66%	57.85	0.98	0.52	1.16	0.60	3.26	7.22	10.47	68.33	57.85	7.22	3.26	68.33	86.78	7.22	4.89	98.88	115.71	7.22	6.51	129.44	20,135	15,894	10,403	46,433	86.66
10	Technical Staff	2,521	1,430	715	65%	56.41	0.98	0.52	1.13	0.60	3.23	7.22	10.44	66.86	56.41	7.22	3.23	66.86	84.62	7.22	4.84	96.68	112.82	7.22	6.46	126.50	175,200	138,204	90,417	403,841	84.75
11	Safety Responsible	352	192	96	70%	65.82	0.98	0.52	1.32	0.60	3.42	7.22	10.63	76.45	65.82	7.22	3.42	76.45	98.73	7.22	5.13	111.07	131.64	7.22	6.83	145.69	26,911	21,325	13,986	62,221	97.22
12	Safety Officer	3,285	1,792	896	65%	56.41	0.98	0.52	1.13	0.60	3.23	7.22	10.44	66.86	56.41	7.22	3.23	66.86	84.62	7.22	4.84	96.68	112.82	7.22	6.46	126.50	219,654	173,251	113,345	506,251	84.75
13	Representative Office Responsible	702	383	192	73%	72.33	0.98	0.52	1.45	0.60	3.55	7.22	10.76	83.09	72.33	7.22	3.55	83.09	108.49	7.22	5.32	121.03	144.65	7.22	7.09	158.96	58,349	46,358	30,445	135,152	105.85
14	Representative Office Assistant	564	308	154	65%	56.93	0.98	0.52	1.14	0.60	3.23	7.22	10.45	67.38	56.93	7.22	3.23	67.38	85.40	7.22	4.84	97.46	113.87	7.22	6.46	127.55	38,023	29,999	19,629	87,651	85.43
15	Technical Manager	351	192	96	73%	72.33	0.98	0.52	1.45	0.60	3.55	7.22	10.76	83.09	72.33	7.22	3.55	83.09	108.49	7.22	5.32	121.03	144.65	7.22	7.09	158.96	29,175	23,179	15,222	67,576	105.85
16	Tech. Office Responsible	314	171	86	70%	65.96	0.98	0.52	1.32	0.60	3.42	7.22	10.64	76.59	65.96	7.22	3.42	76.59	98.94	7.22	5.13	111.28	131.92	7.22	6.84	145.97	24,012	19,029	12,481	55,522	97.41
17	Tech. Office Assistant	1,749	954	477	65%	65.96	0.98	0.52	1.32	0.60	3.42	7.22	10.64	76.59	65.96	7.22	3.42	76.59	98.94	7.22	5.13	111.28	131.92	7.22	6.84	145.97	117,887	93,010	60,859	271,756	85.44
18	Draftsman/CAD Operator	1,900	1,036	518	69%	63.48	0.98	0.52	1.27	0.60	3.37	7.22	10.59	74.07	63.48	7.22	3.37	74.07	95.22	7.22	5.05	107.49	126.96	7.22	6.74	140.92	140,716	111,392	73,015	325,123	94.12
19	Qty. Surveyor Responsible	351	192	96	71%	69.43	0.98	0.52	1.39	0.60	3.49	7.22	10.71	80.13	69.43	7.22	3.49	80.13	104.14	7.22	5.23	115.59	138.86	7.22	6.98	153.05	28,137	22,330	14,656	65,123	102.01
20	Qty. Surveyor Assistant	345	188	94	69%	63.48	0.98	0.52	1.27	0.60	3.37	7.22	10.59	74.07	63.48	7.22	3.37	74.07	95.22	7.22	5.05	107.49	126.96	7.22	6.74	140.92	25,542	20,220	13,254	59,016	94.12
21	Surveyor Responsible	364	198	99	71%	69.43	0.98	0.52	1.39	0.60	3.49	7.22	10.71	80.13	69.43	7.22	3.49	80.13	104.14	7.22	5.23	115.59	138.86	7.22	6.98	153.05	29,142	23,128	15,180	67,449	102.01
22	Senior Engineer	1,376	750	375	70%	65.82	0.98	0.52	1.32	0.60	3.42	7.22	10.63	76.45	65.82	7.22	3.42	76.45	98.73	7.22	5.13	111.07	131.64	7.22	6.83	145.69	105,187	83,354	54,667	243,208	97.22
23	Engineer	226	123	62	69%	56.41	0.98	0.52	1.13	0.60	3.23	7.22	10.44	66.86	56.41	7.22	3.23	66.86	84.62	7.22	4.84	96.68	112.82	7.22	6.46	126.50	15,035	11,857	7,757	34,649	84.43
24	Planning Responsible	325	177	89	70%	65.82	0.98	0.52	1.32	0.60	3.42	7.22	10.63	76.45	65.82	7.22	3.42	76.45	98.73	7.22	5.13	111.07	131.64	7.22	6.83	145.69	24,808	19,659	12,893	57,360	97.22
25	Planning Assistant	351	192	96	65%	56.41	0.98	0.52	1.13	0.60	3.23	7.22	10.44	66.86	56.41	7.22	3.23	66.86	84.62	7.22	4.84	96.68	112.82	7.22	6.46	126.50	23,474	18,515	12,113	54,103	84.75
26	Permanent Materials Responsible	295	161	80	71%	69.43	0.98	0.52	1.39	0.60	3.49	7.22	10.71	80.13	69.43	7.22	3.49	80.13	104.14	7.22	5.23	115.59	138.86	7.22	6.98	153.05	23,615	18,741	12,301	54,657	102.01
27	Administrative Manager	352	192	96	76%	86.43	1.03	0.55	1.73	0.63	3.94	7.22	11.16	97.59	86.43	7.22	3.94	97.59	129.64	7.22	5.91	142.77	172.86	7.22	7.88	187.95	34,350	27,412	18,044	79,805	124.70
28	Personnel Office Responsible	1,073	585	293	70%	65.82	0.98	0.52	1.32	0.60	3.42	7.22	10.63	76.45	65.82	7.22	3.42	76.45	98.73	7.22	5.13	111.07	131.64	7.22	6.83	145.69	82,010	64,988	42,622	189,620	97.22
29	Computer Operat./Programmer	652	356	178	59%	47.73	0.98	0.52	0.95	0.60	3.05	7.22	10.27	58.00	47.73	7.22	3.05	58.00	71.60	7.22	4.58	83.40	95.47	7.22	6.11	108.79	37,823	29,663	19,347	86,833	73.24
30	Purchasing Responsible	1,053	575	287	70%	65.82	0.98	0.52	1.32	0.60	3.42	7.22	10.63	76.45	65.82	7.22	3.42	76.45	98.73	7.22	5.13	111.07	131.64	7.22	6.83	145.69	80,330	63,815	41,852	186,198	97.22
31	Warehouse Responsible	351	192	96	68%	67.31	1.06	0.56	1.85	0.65	3.62	7.22	10.84	78.15	67.31	7.22	3.62	78.15	100.97	7.22	5.43	113.61	134.62	7.22	7.24	149.08	27,419	21,759	14,276	63,473	96.43
32	General Services Responsible	351	192	96	65%	56.41	0.98	0.52	1.13	0.60	3.23	7.22	10.44	66.86	56.41	7.22	3.23	66.86	84.62	7.22	4.84	96.68	112.82	7.22	6.46	126.50	23,474	18,515	12,113	54,103	84.75
33	Procurement Manager	275	150	75	74%	80.67	1.03	0.55	1.61	0.63	3.82	7.22	11.04	91.71	80.67	7.22	3.82	91.71	121.01	7.22	5.74	113.96	141.35	7.22	7.65	176.21	25,181	20,062	13,195	58,438	117.06
34	Production Manager	352	192	96	83%	120.48	1.03	0.55	2.41	0.63	4.62	7.22	11.84	132.32	120.48	7.22	4.62	132.32	180.72	7.22	6.93	194.87	240.96	7.22	9.24	257.42	46,576	37,415	24,712	108,703	169.85
35	Deputy Production Manager	270	147	74	74%	75.94	0.																								



**1.2 Total: Rates and Hours Sheets for Work Force Covered by Collective Agreement**

**1.2.1 Sheet 1) Instructions (1 of 3)**

<b>1) General</b>			
Bidder to enter data in the following sheets: (at Bidder option, Bidder may enter hours only in Rates and Hours May 2013 sheet accompanied by a calculation of escalation until Substantial Completion.)			
2) Fixed Amounts			
3) Rates and Hours May 2013			
4) Rates and Hours May 2014			
5) Rates and Hours May 2015			
6) Rates and Hours May 2016			
7) Rates and Hours May 2017			
Only enter data in yellow-shaded cells within these sheets. All other cells are locked for editing.			
All known amounts such as union-prescribed rates, work schedules, overtime (OT) hours, travel allowances and common government (govt) deductions are provided.			
Bidder should refer to the Project Labour Agreement for any clarification.			
The effective date for the rates are May 1 each year. The May 2013 rates are effective up until April 30, 2014, etc.			
Although set up to print, the sheets are designed for direct entry.			
Each sheet within the Excel Workbook is described below, with completion instructions as required.			
<b>2) Fixed Amounts Sheet</b>			
Contains union-specific rates for vacation pay, holiday, pensions, H&W and other add-ons as well as rates for government burdens.			
Bidder to enter its rate for WHSCC premiums in this sheet. The rate is industry- and company-specific. The default rate is for heavy industrial companies.			
If Bidder has a different rate, enter it in the yellow-shaded cell in this sheet.			
<b>3-7) Rates and Hours Sheets</b>			
A list of the columns in the Rates and Hours sheet and instructions for completing the columns are provided below; yellow shaded cells are those to be completed by Bidder.			
Do not enter data in rows below the row marked "End" in the Rates and Hours sheets. If extra rows are required, insert them before the End row.			
<b>Rates and Hours Sheets Columns</b>			
Column Group	Column #	Column Name	Description and Notes for Completion by Bidder
	1	Position and Level	Select from dropdown list; includes all Journeyperson, foreperson and apprentices for each union; Bidder should consult the Project Labour Agreement for classification and position descriptions. Selected positions and hours are included in the May 2013 sheet are for illustrative purposes only
	2	Union	Formula which completes automatically after Position and Level selected. Do not enter anything in this cell.
Estimated Hours	3	Total Hours	Enter the total expected amount of hours for each position.
	4	Shift (Day/Night)	Select Day or Night from the dropdown list to identify if the hours are for daytime shifts or if they are for night or second shifts for which the shift premium will be applicable. If the trade has both day and night hours, use two separate rows.
	5	% of Hrs Expected to Exceed Govt Burden Maximums	The Company and Bidder acknowledge that many long-term workers will exceed the maximum payroll threshold for CPP, EI and WHSCC premiums. As such, Bidder is asked to provide an estimate of the % of total hours that are expected to exceed the maximum individual payroll thresholds for these deductions. The maximum payroll thresholds for 2013 are: CPP (47,600), EI (47,400) and WHSCC (54,155). As an example, a journeyperson carpenter who works a 14 and 7 schedule will work approximately 2,400 hours in a year at an average rate of pay of \$51.06 (including OT), which equates to over \$122,000 per year or over 2.5 times the maximum threshold for EI and CPP deductions.
Bidder Schedule	6	Shift Schedule	Select the shift schedule that the Bidder is proposing to use from the dropdown list. These schedules are identified in the Project Labour Agreement in Articles 19.03 and 19.04. If different schedules are to be worked by the same trade classification, enter them as separate row items.
	7	Start Day	Select the start day for the schedule from the dropdown list. In certain schedules, the start day affects the percentage of total hours that will be applicable for OT rates. For the Regular shift schedules ("5 and 2" or "4 and 3"), the start day can only occur on a Monday. Entering any other start day for these schedules will result in an error.
	8	Schedule Long Name	Formula. Do not enter anything in this field.
Project Labour Agreement Rates (per hour)	9	Base Rate	Formulae which complete automatically after Position and Level are selected. Do not enter anything in these cells.
	10	Vacation Pay	
	11	Holiday Pay	
	12	LCP Premium	
	13	Health and Welfare (H&W)	
	14	Pension	
	15	Other Add-ons	
	16	Shift Premium	



1.2.1 Sheet 1) Instructions (2 of 3)

Rates and Hours Sheets Columns			
Column Group	Column #	Column Name	Description and Notes for Completion by Bidder
Govt Burdens or MERCs (per hour)	17	Canada Pension Plan (CPP)	MERCs are govt burdens or mandatory employment related costs. Formulae which complete automatically after the Position and Level are selected. Do not enter anything in these cells. Links to guides for CPP, EI deductions and the HAPSET are provided in the links below.  <a href="http://www.cra-arc.gc.ca/E/pub/tg/t4001/README.html">http://www.cra-arc.gc.ca/E/pub/tg/t4001/README.html</a> <a href="http://www.cra-arc.gc.ca/E/pub/tg/t4032nl/README.html">http://www.cra-arc.gc.ca/E/pub/tg/t4032nl/README.html</a> <a href="http://www.fin.gov.nl.ca/fin/tax_programs_incentives/business/education.html">http://www.fin.gov.nl.ca/fin/tax_programs_incentives/business/education.html</a>  Formula which completes automatically after Position and Level selected. Do not enter anything in this cell (links back to assumptions entered by Bidder in the Fixed Amounts sheet). See link below to the WHSCC 2013 employer's guide.  <a href="http://www.whscc.nf.ca/forms.aspx?type=Publications">http://www.whscc.nf.ca/forms.aspx?type=Publications</a>
	18	Employment Insurance (EI)	
	19	Health and Post-secondary Education Tax (HAPSET)	
	20	Workplace Health, Safety and Compensation Commission (WHSCC)	
Premiums (\$ per hour)	21	Height	Calculates the amount of premiums to be added to the base rate based on the percentages assumed by the Bidder in Columns 66 to 82.
	22	Heavy lifting	
	23	Boom	
	24	Tool	
Daytime Rates	25	All-in Regular Time Rate	Formulae which complete automatically after Position and Level selected. Do not enter anything in these cells.
	26	All-in 1.5 x Overtime (OT) Rate	
	27	All-in 2 x OT Rate	
Hours by Rate	28	Regular Time Hrs	Formula that calculates total amount of hours applicable to the regular time rate based on the selected schedule and start date.
	29	1.5 x OT hours	Formula that calculates total amount of hours applicable to the 1.5 x OT rate based on the selected schedule and start date.
	30	2 x OT hours	Formula that calculates total amount of hours applicable to the 2 x OT rate based on the selected schedule and start date.
Total Cost	31	Regular Hrs - Cost	Formula that calculates total all-in cost for Regular Time hours.
	32	1.5 x OT Hours - Cost	Formula that calculates total all-in cost for 1.5 x OT hours.
	33	2 x OT Hours - Cost	Formula that calculates total all-in cost for 2 x OT hours.
	34	Total Labour Cost	Formula that calculates total Labour cost for all hours.
Regular Time Labour Rate Summary	35	Wages	Formulae that summarize the total hourly regular time labour costs.
	36	Premiums	
	37	Union Add-ons	
	38	MERCs	
	39	Total Reg Rate	
Labour Rate Summary (1.5 x OT)	40	Wages	Formulae that summarize the total hourly 1.5 x OT labour costs.
	41	Premiums	
	42	Union Add-ons	
	43	MERCs	
	44	Total 1.5 x OT Rate	
Labour Rate Summary (2 x OT)	45	Wages	Formulae that summarize the total hourly 2 x OT labour costs.
	46	Premiums	
	47	Union Add-ons	
	48	MERCs	
	49	Total 2 x OT Rate	
	50	Avg Blended Rate (including OT based on selected schedule)	The weighted average labour cost for each position based on the selected work schedule and factoring in the prescribed OT rates as per the Project Labour Agreement
Height Premiums from Project Labour Agreement (\$ per hour)	51	> 40 feet	Height premium amounts for the various trades covered in the Project Labour Agreement. Amounts are pre-set in sheet and appear when the particular trade is selected.
	52	40-100 feet	
	53	> 100 feet	
	54	> 50 feet	
	55	40-64 feet	
	56	65-89 feet	
	57	90-124 feet	
	58	>125 feet	
	59	15-30 metres	
	60	> 30 metres	

1.2.1 Sheet 1) Instructions (3 of 3)

Rates and Hours Sheets Columns				
Column Group	Column #	Column Name	Description and Notes for Completion by Bidder	
Heavy Lifting Premiums from Project Labour Agreement (\$ per hour)	61 62 63 64 65	225-300 tons 300-350 tons 350-400 tons 400-450 tons 450-500 tons	Heavy lifting premium amounts covered in the Project Labour Agreement. Applicable to crane operators only. Amounts are pre-set in sheet and appear when the particular trade is selected.	
Boom Premiums from Project Labour Agreement (\$ per hour)	66 67	140 to 200 feet > 200 feet		
Tool Premium	68			Tool premium which applies to OE Group 1 Equipment Mechanics only.
Height Premiums from Project Labour Agreement (\$ per hour)	69	> 40 feet		Bidder to enter an estimate for the percentage of total hours for each position for which the height premium will apply.
	70	40-100 feet		
	71	> 100 feet		
	72	> 50 feet		
	73	40-64 feet		
	74	65-89 feet		
	75	90-124 feet		
Heavy Lifting Premiums from Project Labour Agreement (\$ per hour)	76	>125 feet	Bidder to enter an estimate for the percentage of total hours for each position for which the heavy lifting premium will apply.	
	77	15-30 metres		
	78	> 30 metres		
	79	225-300 tons		
Boom Premiums from Project Labour Agreement (\$ per hour)	80	300-350 tons	Bidder to enter an estimate for the percentage of total hours for each position for which the boom premium will apply.	
	81	350-400 tons		
	82	400-450 tons		
	83	450-500 tons		
Tool Premium	84 85	140 to 200 feet > 200 feet	Bidder to enter an estimate for the percentage of total hours for each position for which the tool premium applies.	
	86			
<b>8) Premium Sheet</b>				
Lists the various premiums included in the project labour Agreement. Bidder should consult the Agreement if any clarifications are required. Locked for editing.				
<b>9) Positions and Base Rates Sheet</b>				
Lists all positions and levels covered in the Project Labour Agreement and includes base wage rates for the life of the Project Labour Agreement and is locked for editing.				
<b>10) Schedules Sheet</b>				
Lists all work schedules contained in the Project Labour Agreement and calculates the share of Regular, 1.5 x OT and 2 x OT hours for each work schedule based on the start day of the week. It is locked for editing.				
<b>11) Schedule Summary Sheet</b>				
Summarizes the schedules and the OT hours calculated in the Schedules sheet. It is locked for editing.				
<b>12) Start Days Sheet</b>				
Lists the start days of the week and is locked for editing. It is used as a look-up reference for other sheets.				
<b>13) Night Day Sheet</b>				
It is used as a look-up reference for other sheets and locked for editing.				

1.2.2 Sheet 2) Fixed Amounts (1 of 3)

May-13												
Union	Vacation Pay	Holiday Pay	LCP Premium (\$ per hour)	H&W (\$ per hour)	Pension (\$ per hour)	Other Add-ons (\$ per hour)	Shift Premium (\$ per hour)	CPP	EI	Payroll Tax	WHSCC	
Carpenters	10.0%	3.0%	3.50	1.80	6.00	1.53	3.00	4.95%	2.63%	2.00%	3.03%	9.33
Hotel and Restaurant	8.0%	5.0%	1.00	3.00	7.50	2.99	3.00	4.95%	2.63%	2.00%	3.03%	13.49
Ironworkers	10.0%	3.5%	3.50	1.81	6.00	2.37	3.00	4.95%	2.63%	2.00%	3.03%	10.18
Linespersons	10.0%	3.0%	3.50	1.00	4.55	0.60	3.00	4.95%	2.63%	2.00%	3.03%	6.15
Labourers	10.0%	3.0%	3.50	2.39	5.25	2.65	3.00	4.95%	2.63%	2.00%	3.03%	10.29
Operating Engineers	9.0%	4.0%	3.50	2.15	6.00	1.70	3.00	4.95%	2.63%	2.00%	3.03%	9.85
Teamsters	9.0%	4.0%	3.50	1.75	2.50	1.10	3.00	4.95%	2.63%	2.00%	3.03%	5.35
Bricklayers	8.0%	2.0%	3.50	1.90	5.00	1.85	3.00	4.95%	2.63%	2.00%	3.03%	8.75
Boilermakers	8.0%	4.0%	3.50	2.25	7.50	3.08	3.00	4.95%	2.63%	2.00%	3.03%	12.83
Electricians	10.0%	3.0%	3.50	2.00	5.95	0.89	3.00	4.95%	2.63%	2.00%	3.03%	8.84
Millwrights	10.0%	3.0%	3.50	1.78	6.93	1.55	3.00	4.95%	2.63%	2.00%	3.03%	10.26
Plumbers and Pipefitters	10.0%	0.0%	3.50	2.50	6.00	2.93	3.00	4.95%	2.63%	2.00%	3.03%	11.43
Painters	10.0%	3.0%	3.50	2.15	5.00	1.70	3.00	4.95%	2.63%	2.00%	3.03%	8.85
Insulators	10.0%	3.0%	3.50	2.05	5.00	2.10	3.00	4.95%	2.63%	2.00%	3.03%	9.15
Sheet Metal	10.0%	3.0%	3.50	2.00	6.50	0.56	3.00	4.95%	2.63%	2.00%	3.03%	9.06
Elevator Constructors	8.0%	4.0%	3.50	1.18	2.25	0.66	3.00	4.95%	2.63%	2.00%	3.03%	4.09
Null	0.0%	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	
May-14												
Union	Vacation Pay	Holiday Pay	LCP Premium (\$ per hour)	H&W (\$ per hour)	Pension (\$ per hour)	Other Add-ons (\$ per hour)	Shift Premium (\$ per hour)	CPP	EI	Payroll Tax	WHSCC	
Carpenters	10.0%	3.0%	3.50	1.80	6.00	1.53	3.00	4.95%	2.63%	2.00%	3.03%	9.33
Hotel and Restaurant	8.0%	5.0%	1.00	3.00	7.50	2.99	3.00	4.95%	2.63%	2.00%	3.03%	13.49
Ironworkers	10.0%	3.5%	3.50	1.81	6.00	2.37	3.00	4.95%	2.63%	2.00%	3.03%	10.18
Linespersons	10.0%	3.0%	3.50	1.00	4.55	0.60	3.00	4.95%	2.63%	2.00%	3.03%	6.15
Labourers	10.0%	3.0%	3.50	2.39	5.25	2.65	3.00	4.95%	2.63%	2.00%	3.03%	10.29
Operating Engineers	9.0%	4.0%	3.50	2.15	6.00	1.70	3.00	4.95%	2.63%	2.00%	3.03%	9.85
Teamsters	9.0%	4.0%	3.50	1.75	2.50	1.10	3.00	4.95%	2.63%	2.00%	3.03%	5.35
Bricklayers	8.0%	2.0%	3.50	1.90	5.00	1.85	3.00	4.95%	2.63%	2.00%	3.03%	8.75
Boilermakers	8.0%	4.0%	3.50	2.25	7.50	3.08	3.00	4.95%	2.63%	2.00%	3.03%	12.83
Electricians	10.0%	3.0%	3.50	2.00	5.95	0.89	3.00	4.95%	2.63%	2.00%	3.03%	8.84
Millwrights	10.0%	3.0%	3.50	1.78	7.38	1.55	3.00	4.95%	2.63%	2.00%	3.03%	10.71
Plumbers and Pipefitters	10.0%	0.0%	3.50	2.50	6.00	2.93	3.00	4.95%	2.63%	2.00%	3.03%	11.43
Painters	10.0%	3.0%	3.50	2.25	5.00	1.70	3.00	4.95%	2.63%	2.00%	3.03%	8.95
Insulators	10.0%	3.0%	3.50	2.05	5.00	2.10	3.00	4.95%	2.63%	2.00%	3.03%	9.15
Sheet Metal	10.0%	3.0%	3.50	2.00	6.50	0.56	3.00	4.95%	2.63%	2.00%	3.03%	9.06
Elevator Constructors	8.0%	4.0%	3.50	1.18	2.25	0.66	3.00	4.95%	2.63%	2.00%	3.03%	4.09
Null	0.0%	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	



1.2.2 Sheet 2) Fixed Amounts (2 of 3)

May-15												
Union	Vacation Pay	Holiday Pay	LCP Premium (\$ per hour)	H&W (\$ per hour)	Pension (\$ per hour)	Other Add-ons (\$ per hour)	Shift Premium (\$ per hour)	CPP	EI	Payroll Tax	WHSCC	
Carpenters	10.0%	3.0%	3.50	1.80	6.00	1.53	3.00	4.95%	2.63%	2.00%	3.03%	9.33
Hotel and Restaurant	8.0%	5.0%	1.00	3.00	7.50	2.99	3.00	4.95%	2.63%	2.00%	3.03%	13.49
Ironworkers	10.0%	3.5%	3.50	1.81	6.00	2.37	3.00	4.95%	2.63%	2.00%	3.03%	10.18
Linespersons	10.0%	3.0%	3.50	1.00	4.55	0.60	3.00	4.95%	2.63%	2.00%	3.03%	6.15
Labourers	10.0%	3.0%	3.50	2.39	5.25	2.65	3.00	4.95%	2.63%	2.00%	3.03%	10.29
Operating Engineers	9.0%	4.0%	3.50	2.15	6.00	1.70	3.00	4.95%	2.63%	2.00%	3.03%	9.85
Teamsters	9.0%	4.0%	3.50	1.75	2.50	1.10	3.00	4.95%	2.63%	2.00%	3.03%	5.35
Bricklayers	8.0%	2.0%	3.50	1.90	5.00	1.85	3.00	4.95%	2.63%	2.00%	3.03%	8.75
Boilermakers	8.0%	4.0%	3.50	2.25	7.50	3.08	3.00	4.95%	2.63%	2.00%	3.03%	12.83
Electricians	10.0%	3.0%	3.50	2.00	5.95	0.89	3.00	4.95%	2.63%	2.00%	3.03%	8.84
Millwrights	10.0%	3.0%	3.50	1.78	7.74	1.55	3.00	4.95%	2.63%	2.00%	3.03%	11.07
Plumbers and Pipefitters	10.0%	0.0%	3.50	2.50	6.00	2.93	3.00	4.95%	2.63%	2.00%	3.03%	11.43
Painters	10.0%	3.0%	3.50	2.35	5.00	1.70	3.00	4.95%	2.63%	2.00%	3.03%	9.05
Insulators	10.0%	3.0%	3.50	2.05	5.00	2.10	3.00	4.95%	2.63%	2.00%	3.03%	9.15
Sheet Metal	10.0%	3.0%	3.50	2.00	6.50	0.56	3.00	4.95%	2.63%	2.00%	3.03%	9.06
Elevator Constructors	8.0%	4.0%	3.50	1.18	2.25	0.66	3.00	4.95%	2.63%	2.00%	3.03%	4.09
Null	0.0%	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	
May-16												
Union	Vacation Pay	Holiday Pay	LCP Premium (\$ per hour)	H&W (\$ per hour)	Pension (\$ per hour)	Other Add-ons (\$ per hour)	Shift Premium (\$ per hour)	CPP	EI	Payroll Tax	WHSCC	
Carpenters	10.0%	3.0%	3.50	1.80	6.00	1.53	3.00	4.95%	2.63%	2.00%	3.03%	9.33
Hotel and Restaurant	8.0%	5.0%	1.00	3.00	7.50	2.99	3.00	4.95%	2.63%	2.00%	3.03%	13.49
Ironworkers	10.0%	3.5%	3.50	1.81	6.00	2.37	3.00	4.95%	2.63%	2.00%	3.03%	10.18
Linespersons	10.0%	3.0%	3.50	1.00	4.55	0.60	3.00	4.95%	2.63%	2.00%	3.03%	6.15
Labourers	10.0%	3.0%	3.50	2.39	5.25	2.65	3.00	4.95%	2.63%	2.00%	3.03%	10.29
Operating Engineers	9.0%	4.0%	3.50	2.15	6.00	1.70	3.00	4.95%	2.63%	2.00%	3.03%	9.85
Teamsters	9.0%	4.0%	3.50	1.75	2.50	1.10	3.00	4.95%	2.63%	2.00%	3.03%	5.35
Bricklayers	8.0%	2.0%	3.50	1.90	5.00	1.85	3.00	4.95%	2.63%	2.00%	3.03%	8.75
Boilermakers	8.0%	4.0%	3.50	2.25	7.50	3.08	3.00	4.95%	2.63%	2.00%	3.03%	12.83
Electricians	10.0%	3.0%	3.50	2.00	5.95	0.89	3.00	4.95%	2.63%	2.00%	3.03%	8.84
Millwrights	10.0%	3.0%	3.50	1.78	8.19	1.55	3.00	4.95%	2.63%	2.00%	3.03%	11.52
Plumbers and Pipefitters	10.0%	0.0%	3.50	2.50	6.00	2.93	3.00	4.95%	2.63%	2.00%	3.03%	11.43
Painters	10.0%	3.0%	3.50	2.45	5.00	1.70	3.00	4.95%	2.63%	2.00%	3.03%	9.15
Insulators	10.0%	3.0%	3.50	2.05	5.00	2.10	3.00	4.95%	2.63%	2.00%	3.03%	9.15
Sheet Metal	10.0%	3.0%	3.50	2.00	6.50	0.56	3.00	4.95%	2.63%	2.00%	3.03%	9.06
Elevator Constructors	8.0%	4.0%	3.50	1.18	2.25	0.66	3.00	4.95%	2.63%	2.00%	3.03%	4.09
Null	0.0%	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	

1.2.2 Sheet 2) Fixed Amounts (3 of 3)

May-17												
Union	0	Holiday Pay	LCP Premium (\$ per hour)	H&W (\$ per hour)	Pension (\$ per hour)	Other Add-ons (\$ per hour)	Shift Premium (\$ per hour)	CPP	EI	Payroll Tax	WHSCC	
Carpenters	10.0%	3.0%	3.50	1.80	6.00	1.53	3.00	4.95%	2.63%	2.00%	3.03%	9.33
Hotel and Restaurant	8.0%	5.0%	1.00	3.00	7.50	2.99	3.00	4.95%	2.63%	2.00%	3.03%	13.49
Ironworkers	10.0%	3.5%	3.50	1.81	6.00	2.37	3.00	4.95%	2.63%	2.00%	3.03%	10.18
Linespersons	10.0%	3.0%	3.50	1.00	4.55	0.60	3.00	4.95%	2.63%	2.00%	3.03%	6.15
Labourers	10.0%	3.0%	3.50	2.39	5.25	2.65	3.00	4.95%	2.63%	2.00%	3.03%	10.29
Operating Engineers	9.0%	4.0%	3.50	2.15	6.00	1.70	3.00	4.95%	2.63%	2.00%	3.03%	9.85
Teamsters	9.0%	4.0%	3.50	1.75	2.50	1.10	3.00	4.95%	2.63%	2.00%	3.03%	5.35
Bricklayers	8.0%	2.0%	3.50	1.90	5.00	1.85	3.00	4.95%	2.63%	2.00%	3.03%	8.75
Boilermakers	8.0%	4.0%	3.50	2.25	7.50	3.08	3.00	4.95%	2.63%	2.00%	3.03%	12.83
Electricians	10.0%	3.0%	3.50	2.00	5.95	0.89	3.00	4.95%	2.63%	2.00%	3.03%	8.84
Millwrights	10.0%	3.0%	3.50	1.78	8.55	1.55	3.00	4.95%	2.63%	2.00%	3.03%	11.88
Plumbers and Pipefitters	10.0%	0.0%	3.50	2.50	6.00	2.93	3.00	4.95%	2.63%	2.00%	3.03%	11.43
Painters	10.0%	3.0%	3.50	2.55	5.00	1.70	3.00	4.95%	2.63%	2.00%	3.03%	9.25
Insulators	10.0%	3.0%	3.50	2.05	5.00	2.10	3.00	4.95%	2.63%	2.00%	3.03%	9.15
Sheet Metal	10.0%	3.0%	3.50	2.00	6.50	0.56	3.00	4.95%	2.63%	2.00%	3.03%	9.06
Elevator Constructors	8.0%	4.0%	3.50	1.18	2.25	0.66	3.00	4.95%	2.63%	2.00%	3.03%	4.09
Null	0.0%	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	

1.2.3 Sheet 3) Rates and Hours May 2013 (1 of 6)

1	2	Estimated Hours (May 1, 2013 - April 30, 2014)			Bidder Schedule			Project Labour Agreement Rates (\$ per hour)								Govt Burdens or MERCs (\$ per hour)				Premium Costs (\$ per hour)				
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Position and Level	Union	Total Hours	Shift (Day/Night)	% of Hrs Expected to Exceed Govt Burden Maximums	Shift Schedule	Start Day	Schedule Long Name	Base Rate	Vacation Pay	Holiday	LCP Premium	H&W	Pension	Other Add-on	Shift Premium	CPP	EI	Payroll Tax	WHSCC	Height	Heavy Lifting	Boom	Tool	
<b>Rates Effective May 2013 - April 2014</b>																								
Carpenters - Apprentice - 1	Carpenters	3,680	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	20.62	2.06	0.62	3.50	1.80	6.00	1.53	3.00	0.67	0.36	0.54	0.41	0.35	-	-	-	-
Carpenters - Apprentice - 1	Carpenters	3,680	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	20.62	2.06	0.62	3.50	1.80	6.00	1.53	3.00	0.75	0.40	0.60	0.46	0.35	-	-	-	-
Carpenters - Apprentice - 2	Carpenters	734	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	22.21	2.22	0.67	3.50	1.80	6.00	1.53	3.00	0.72	0.38	0.58	0.44	0.35	-	-	-	-
Carpenters - Apprentice - 2	Carpenters	734	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	22.21	2.22	0.67	3.50	1.80	6.00	1.53	3.00	0.79	0.42	0.64	0.48	0.35	-	-	-	-
Carpenters - Apprentice - 3	Carpenters	3,427	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	25.38	2.54	0.76	3.50	1.80	6.00	1.53	3.00	0.81	0.43	0.65	0.49	0.35	-	-	-	-
Carpenters - Apprentice - 3	Carpenters	3,427	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	25.38	2.54	0.76	3.50	1.80	6.00	1.53	3.00	0.88	0.47	0.71	0.54	0.35	-	-	-	-
Carpenters - Journeyman carpenter welder scaffolder	Carpenters	4,641	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.73	3.17	0.95	3.50	1.80	6.00	1.53	3.00	0.98	0.52	0.79	0.60	0.35	-	-	-	-
Carpenters - Journeyman carpenter welder scaffolder	Carpenters	4,641	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.73	3.17	0.95	3.50	1.80	6.00	1.53	3.00	1.06	0.56	0.85	0.65	0.35	-	-	-	-
Carpenters - Working foreperson	Carpenters	2,041	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.90	3.49	1.05	3.50	1.80	6.00	1.53	3.00	1.07	0.57	0.87	0.66	0.35	-	-	-	-
Carpenters - Working foreperson	Carpenters	2,041	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.90	3.49	1.05	3.50	1.80	6.00	1.53	3.00	1.15	0.61	0.93	0.70	0.35	-	-	-	-
Carpenters - General foreperson	Carpenters	8,475	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.08	3.81	1.14	3.50	1.80	6.00	1.53	3.00	1.15	0.61	0.93	0.70	-	-	-	-	-
Carpenters - General foreperson	Carpenters	8,475	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.08	3.81	1.14	3.50	1.80	6.00	1.53	3.00	1.23	0.65	0.99	0.75	-	-	-	-	-
Electricians - Journeyman	Electricians	333	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.54	1.06	3.50	2.00	5.95	0.89	3.00	1.12	0.60	0.91	0.69	1.95	-	-	-	-
Electricians - Journeyman	Electricians	333	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.54	1.06	3.50	2.00	5.95	0.89	3.00	1.20	0.64	0.97	0.73	1.95	-	-	-	-
Electricians - Journeyman	Electricians	306	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.54	1.06	3.50	2.00	5.95	0.89	3.00	1.12	0.60	0.91	0.69	1.95	-	-	-	-
Electricians - Journeyman	Electricians	306	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.54	1.06	3.50	2.00	5.95	0.89	3.00	1.20	0.64	0.97	0.73	1.95	-	-	-	-
Electricians - Journeyman	Electricians	500	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.54	1.06	3.50	2.00	5.95	0.89	3.00	1.12	0.60	0.91	0.69	1.95	-	-	-	-
Electricians - Journeyman	Electricians	500	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.54	1.06	3.50	2.00	5.95	0.89	3.00	1.20	0.64	0.97	0.73	1.95	-	-	-	-
Electricians - Journeyman	Electricians	500	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.54	1.06	3.50	2.00	5.95	0.89	3.00	1.08	0.57	0.87	0.66	-	-	-	-	-
Electricians - Journeyman	Electricians	500	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.54	1.06	3.50	2.00	5.95	0.89	3.00	1.15	0.61	0.93	0.70	-	-	-	-	-
Electricians - Apprentice - 3rd year	Electricians	1,055	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	24.77	2.48	0.74	3.50	2.00	5.95	0.89	3.00	0.78	0.41	0.63	0.48	-	-	-	-	-
Electricians - Apprentice - 3rd year	Electricians	1,055	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	24.77	2.48	0.74	3.50	2.00	5.95	0.89	3.00	0.85	0.45	0.69	0.52	-	-	-	-	-
Electricians - Journeyman	Electricians	1,055	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.54	1.06	3.50	2.00	5.95	0.89	3.00	1.08	0.57	0.87	0.66	-	-	-	-	-
Electricians - Journeyman	Electricians	1,055	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.54	1.06	3.50	2.00	5.95	0.89	3.00	1.15	0.61	0.93	0.70	-	-	-	-	-
Electricians - Non-working foreperson	Electricians	366	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.93	3.89	1.17	3.50	2.00	5.95	0.89	3.00	1.18	0.62	0.95	0.72	-	-	-	-	-
Electricians - Non-working foreperson	Electricians	366	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.93	3.89	1.17	3.50	2.00	5.95	0.89	3.00	1.25	0.66	1.01	0.76	-	-	-	-	-
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	Ironworkers	1,868	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	22.52	2.25	0.79	3.50	1.81	6.00	2.37	3.00	0.72	0.39	0.59	0.44	0.20	-	-	-	-
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	Ironworkers	1,868	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	22.52	2.25	0.79	3.50	1.81	6.00	2.37	3.00	0.80	0.42	0.65	0.49	0.20	-	-	-	-
Ironworkers - Structural Apprentice - 1st 1,000 hrs	Ironworkers	600	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	23.32	2.33	0.82	3.50	1.81	6.00	2.37	3.00	0.82	0.44	0.66	0.50	0.20	-	-	-	-
Ironworkers - Structural Apprentice - 1st 1,000 hrs	Ironworkers	600	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	23.32	2.33	0.82	3.50	1.81	6.00	2.37	3.00	0.90	0.48	0.73	0.55	0.20	-	-	-	-
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	Ironworkers	1,342	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	28.95	2.90	1.01	3.50	1.81	6.00	2.37	3.00	0.98	0.52	0.79	0.60	0.20	-	-	-	-
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	Ironworkers	1,342	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	28.95	2.90	1.01	3.50	1.81	6.00	2.37	3.00	1.06	0.56	0.86	0.65	0.20	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	2,016	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.99	3.00	1.05	3.50	1.81	6.00	2.37	3.00	0.93	0.50	0.75	0.57	0.20	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	2,016	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.99	3.00	1.05	3.50	1.81	6.00	2.37	3.00	1.01	0.54	0.81	0.62	0.20	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	306	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.99	3.00	1.05	3.50	1.81	6.00	2.37	3.00	0.93	0.50	0.75	0.57	0.20	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	306	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.99	3.00	1.05	3.50	1.81	6.00	2.37	3.00	1.00	0.54	0.81	0.62	0.20	-	-	-	-
Ironworkers - Rebar Journeyman	Ironworkers	2,475	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.17	3.22	1.13	3.50	1.81	6.00	2.37	3.00	1.00	0.53	0.80	0.61	0.20	-	-	-	-
Ironworkers - Rebar Journeyman	Ironworkers	2,475	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.17	3.22	1.13	3.50	1.81	6.00	2.37	3.00	1.07	0.57	0.86	0.65	0.20	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	2,408	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.32	3.33	1.17	3.50	1.81	6.00	2.37	3.00	1.02	0.54	0.83	0.63	-	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	2,408	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.32	3.33	1.17	3.50	1.81	6.00	2.37	3.00	1.10	0.58	0.89	0.67	-	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	184	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.32	3.33	1.17	3.50	1.81	6.00	2.37	3.00	1.02	0.54	0.83	0.63	-	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	184	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.32	3.33	1.17	3.50	1.81	6.00	2.37	3.00	1.10	0.58	0.89	0.67	-	-	-	-	-
Ironworkers - Rebar foreperson	Ironworkers	713	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.00	3.70	1.29	3.50	1.81	6.00	2.37	3.00	1.13	0.60	0.91	0.69	-	-	-	-	-
Ironworkers - Rebar foreperson	Ironworkers	713	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.00	3.70	1.29	3.50	1.81	6.00	2.37	3.00	1.20	0.64	0.97	0.73	-	-	-	-	-
Ironworkers - Structural foreperson	Ironworkers	758	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.32	3.83	1.34	3.50	1.81	6.00	2.37	3.00	1.16	0.62	0.94	0.71	-	-	-	-	-
Ironworkers - Structural foreperson	Ironworkers	758	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.32	3.83	1.34	3.50	1.81	6.00	2.37	3.00	1.24	0.66	1.00	0.76	-	-	-	-	-
Ironworkers - Structural foreperson	Ironworkers	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.32	3.83															







1.2.3 Sheet 3) Rates and Hours May 2013 (4 of 6)

1	2	3 Estimated Hours (May 1, 2013 - April 30, 2014)			4 Bidder Schedule		5 Project Labour Agreement Rates (\$ per hour)								6 Govt Burdens or MERCs (\$ per hour)				7 Premium Costs (\$ per hour)				
		8 Total Hours	9 Shift (Day/Night)	10 % of Hrs Expected to Exceed Govt Burden Maximums	11 Shift Schedule	12 Start Day	13 Schedule Long Name	14 Base Rate	15 Vacation Pay	16 Holiday Pay	17 LCP Premium	18 H&W	19 Pension	20 Add-ons	21 Other Premium	22 CPP	23 EI	24 Payroll Tax	25 WHSCC	26 Height	27 Heavy Lifting	28 Boom	29 Tool
Rates Effective May 2013 - April 2014																							
Operating Engineers - Group 3 - JP	Operating Engineers	2,148	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.40	2.92	1.30	3.50	2.15	6.00	1.70	3.00	0.99	0.53	0.80	0.61	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	2,148	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.40	2.92	1.30	3.50	2.15	6.00	1.70	3.00	1.07	0.57	0.86	0.65	-	-	-	-
Operating Engineers - Group 1 - JP	Operating Engineers	12,721	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.81	3.04	1.35	3.50	2.15	6.00	1.70	3.00	1.03	0.55	0.83	0.63	-	-	-	-
Operating Engineers - Group 1 - JP	Operating Engineers	12,721	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.81	3.04	1.35	3.50	2.15	6.00	1.70	3.00	1.11	0.59	0.89	0.68	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	2,855	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.40	2.92	1.30	3.50	2.15	6.00	1.70	3.00	0.99	0.53	0.80	0.61	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	2,855	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.40	2.92	1.30	3.50	2.15	6.00	1.70	3.00	1.07	0.57	0.86	0.65	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	7,287	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	30.67	2.76	1.23	3.50	2.15	6.00	1.70	3.00	0.94	0.50	0.76	0.58	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	7,287	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	30.67	2.76	1.23	3.50	2.15	6.00	1.70	3.00	1.02	0.54	0.82	0.62	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	8,122	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.41	2.83	1.26	3.50	2.15	6.00	1.70	3.00	0.97	0.51	0.78	0.59	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	8,122	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.41	2.83	1.26	3.50	2.15	6.00	1.70	3.00	1.04	0.55	0.84	0.64	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	1,087	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.81	2.95	1.31	3.50	2.15	6.00	1.70	3.00	1.00	0.53	0.81	0.61	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	1,087	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.81	2.95	1.31	3.50	2.15	6.00	1.70	3.00	1.08	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	4,287	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.88	3.50	1.56	3.50	2.15	6.00	1.70	3.00	1.17	0.62	0.95	0.72	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	4,287	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.88	3.50	1.56	3.50	2.15	6.00	1.70	3.00	1.25	0.66	1.01	0.76	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	125	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	30.67	2.76	1.23	3.50	2.15	6.00	1.70	3.00	0.94	0.50	0.76	0.58	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	125	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	30.67	2.76	1.23	3.50	2.15	6.00	1.70	3.00	1.02	0.54	0.82	0.62	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	3,765	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.41	2.83	1.26	3.50	2.15	6.00	1.70	3.00	0.97	0.51	0.78	0.59	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	3,765	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.41	2.83	1.26	3.50	2.15	6.00	1.70	3.00	1.04	0.55	0.84	0.64	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	3,556	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.81	2.95	1.31	3.50	2.15	6.00	1.70	3.00	1.00	0.53	0.81	0.61	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	3,556	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.81	2.95	1.31	3.50	2.15	6.00	1.70	3.00	1.08	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	1,297	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.88	3.50	1.56	3.50	2.15	6.00	1.70	3.00	1.17	0.62	0.95	0.72	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	1,297	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.88	3.50	1.56	3.50	2.15	6.00	1.70	3.00	1.25	0.66	1.01	0.76	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	6,613	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.57	3.65	1.62	3.50	2.15	6.00	1.70	3.00	1.22	0.65	0.99	0.75	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	6,613	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.57	3.65	1.62	3.50	2.15	6.00	1.70	3.00	1.30	0.69	1.05	0.79	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	2,218	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.57	3.65	1.62	3.50	2.15	6.00	1.70	3.00	1.22	0.65	0.99	0.75	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	2,218	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.57	3.65	1.62	3.50	2.15	6.00	1.70	3.00	1.30	0.69	1.05	0.79	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	739	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.01	2.61	1.16	3.50	2.15	6.00	1.70	3.00	0.90	0.48	0.73	0.55	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	3,432	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	25.45	2.29	1.02	3.50	2.15	6.00	1.70	3.00	0.80	0.42	0.65	0.49	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	739	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	25.45	2.29	1.02	3.50	2.15	6.00	1.70	3.00	0.80	0.42	0.65	0.49	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	2,706	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.01	2.61	1.16	3.50	2.15	6.00	1.70	3.00	0.90	0.48	0.73	0.55	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	2,363	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.01	2.61	1.16	3.50	2.15	6.00	1.70	3.00	0.90	0.48	0.73	0.55	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	2,363	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.01	2.61	1.16	3.50	2.15	6.00	1.70	3.00	0.97	0.52	0.79	0.60	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	4,152	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.01	2.61	1.16	3.50	2.15	6.00	1.70	3.00	0.90	0.48	0.73	0.55	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	2,442	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	25.45	2.29	1.02	3.50	2.15	6.00	1.70	3.00	0.80	0.42	0.65	0.49	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	8,659	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.67	2.49	1.11	3.50	2.15	6.00	1.70	3.00	0.86	0.46	0.70	0.53	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	819	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.67	2.49	1.11	3.50	2.15	6.00	1.70	3.00	0.86	0.46	0.70	0.53	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	819	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.67	2.49	1.11	3.50	2.15	6.00	1.70	3.00	0.93	0.50	0.76	0.57	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	739	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.01	2.61	1.16	3.50	2.15	6.00	1.70	3.00	0.90	0.48	0.73	0.55	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	2,851	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.67	2.49	1.11	3.50	2.15	6.00	1.70	3.00	0.86	0.46	0.70	0.53	-	-	-	-
Painters - Group 2	Painters	827	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.54	3.45	1.04	3.50	2.15	5.00	1.70	3.00	1.05	0.56	0.85	0.64	-	-	-	-
Painters - Group 2	Painters	827	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.54	3.45	1.04	3.50	2.15	5.00	1.70	3.00	1.13	0.60	0.91	0.69	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	2,894	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.06	3.07	1.36	3.50	1.75	2.50	1.10	3.00	1.04	0.55	0.84	0.64	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	2,894	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.06	3.07	1.36	3.50	1.75	2.50	1.10	3.00	1.11	0.59	0.90	0.68	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	10,915	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.49	3.10	1.38	3.50	1.75	2.50	1.10	3.00	1.05	0.56	0.85	0.64	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	10,915	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.49	3.10	1.38	3.50	1.75	2.50	1.10	3.00	1.13	0.60	0.91	0.69	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	5,320	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.06	3.07	1.36	3.50	1.75	2.50	1.10	3.00	1.04	0.55	0.84	0.64	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	5,320	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.06	3.07	1.36	3.50	1.75	2.50	1.10	3.00	1.11	0.59	0.90	0.68	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	5,773	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.49	3.10	1.38	3.50	1.75	2.50	1.10	3.00	1.05	0.56	0.85	0.64	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	5,773	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.49	3.10	1.38	3.50	1.75	2.50	1.10	3.00	1.13	0.60	0.91</					

Target Cost of Labour Breakdown  
Agreement No.: CH0007-001

1.2.3 Sheet 3) Rates and Hours May 2013 (5 of 6)

1	All-in Rates (\$ per hour)			Hours by Rate			Total Cost (\$)				Regular Time Labour Rate Summary (\$ per hour)					1.5 x OT Labour Rate Summary (\$ per hour)					2 x OT Labour Rate Summary (\$ per hour)					Avg Blended Rate (Including OT based on selected schedule)		
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49		50	
Position and Level	All-in Reg Time Rate	All-in 1.5 x OT Rate	All-in 2 x OT Rate	Reg Hrs	1.5 x OT Hrs	2 x OT Hrs	Reg Hrs Cost	1.5 x OT Hrs Cost	2 x OT Hrs Cost	Total Labour Cost	Wages	Premium	Union	Add-ons	MERCs	Total Reg Rate	Wages	Premium	Union	Add-ons	MERCs	Total 1.5 x OT Rate	Wages	Premium	Union	Add-ons	MERCs	Total 2 x OT Rate
Rates Effective May 2013 - April 2014																												
Operating Engineers - Group 3 - JP	52.89	79.34	105.78	1,181	322	644	62,487	25,563	68,168	156,218	40.11	-	9.85	2.93	52.89	60.17	-	14.78	4.40	79.34	80.22	-	19.70	5.86	105.78	72.73		
Operating Engineers - Group 3 - JP	56.11	84.17	112.22	1,181	322	644	66,290	27,119	72,317	165,726	43.11	-	9.85	3.15	56.11	64.67	-	14.78	4.72	84.17	86.22	-	19.70	6.30	112.22	77.15		
Operating Engineers - Group 1 - JP	54.60	81.90	109.20	6,997	1,908	3,816	382,027	156,284	416,757	955,067	41.71	-	9.85	3.05	54.60	62.56	-	14.78	4.57	81.90	83.41	-	19.70	6.09	109.20	75.08		
Operating Engineers - Group 1 - JP	57.82	86.73	115.64	6,997	1,908	3,816	404,550	165,498	441,327	1,011,375	44.71	-	9.85	3.27	57.82	67.06	-	14.78	4.90	86.73	89.41	-	19.70	6.53	115.64	79.50		
Operating Engineers - Group 3 - JP	52.89	79.34	105.78	1,570	428	857	83,054	33,977	90,605	207,636	40.11	-	9.85	2.93	52.89	60.17	-	14.78	4.40	79.34	80.22	-	19.70	5.86	105.78	72.73		
Operating Engineers - Group 3 - JP	56.11	84.17	112.22	1,570	428	857	88,109	36,045	96,119	220,273	43.11	-	9.85	3.15	56.11	64.67	-	14.78	4.72	84.17	86.22	-	19.70	6.30	112.22	77.15		
Operating Engineers - Group 5 - JP	50.79	76.19	101.59	4,008	1,093	2,186	203,564	83,276	222,070	508,909	38.16	-	9.85	2.79	50.79	57.24	-	14.78	4.18	76.19	76.31	-	19.70	5.58	101.59	69.84		
Operating Engineers - Group 5 - JP	54.01	81.02	108.03	4,008	1,093	2,186	216,465	88,554	236,144	541,162	41.16	-	9.85	3.01	54.01	61.74	-	14.78	4.51	81.02	82.31	-	19.70	6.01	108.03	74.27		
Operating Engineers - Group 4 - JP	51.69	77.54	103.38	4,467	1,218	2,436	230,899	94,459	251,890	577,248	38.99	-	9.85	2.85	51.69	58.49	-	14.78	4.27	77.54	77.99	-	19.70	5.70	103.38	71.08		
Operating Engineers - Group 4 - JP	54.91	82.37	109.82	4,467	1,218	2,436	245,279	100,341	267,577	613,197	41.99	-	9.85	3.07	54.91	62.99	-	14.78	4.60	82.37	83.99	-	19.70	6.14	109.82	75.50		
Operating Engineers - Group 2 - JP	53.39	80.08	106.78	598	163	326	31,904	13,052	34,805	79,761	40.58	-	9.85	2.96	53.39	60.86	-	14.78	4.45	80.08	81.15	-	19.70	5.93	106.78	73.41		
Operating Engineers - Group 2 - JP	56.61	84.91	113.22	598	163	326	33,828	13,839	36,903	84,570	43.58	-	9.85	3.18	56.61	63.36	-	14.78	4.78	84.91	87.15	-	19.70	6.37	113.22	77.84		
Operating Engineers - Group 1 - Non-Working foreperson	60.75	91.13	121.50	2,358	643	1,286	143,227	58,593	156,247	358,066	47.44	-	9.85	3.47	60.75	71.15	-	14.78	5.20	91.13	94.87	-	19.70	6.93	121.50	83.53		
Operating Engineers - Group 1 - Non-Working foreperson	63.97	95.96	127.94	2,358	643	1,286	150,816	61,697	174,527	377,040	50.44	-	9.85	3.68	63.97	75.65	-	14.78	5.53	95.96	100.87	-	19.70	7.37	127.94	87.96		
Operating Engineers - Group 5 - JP	50.79	76.19	101.59	69	19	38	3,492	1,429	3,810	8,730	38.16	-	9.85	2.79	50.79	57.24	-	14.78	4.18	76.19	76.31	-	19.70	5.58	101.59	69.84		
Operating Engineers - Group 5 - JP	54.01	81.02	108.03	69	19	38	3,713	1,519	4,051	9,284	41.16	-	9.85	3.01	54.01	61.74	-	14.78	4.51	81.02	82.31	-	19.70	6.01	108.03	74.27		
Operating Engineers - Group 4 - JP	51.69	77.54	103.38	2,070	565	1,129	107,027	43,784	116,757	267,586	38.99	-	9.85	2.85	51.69	58.49	-	14.78	4.27	77.54	77.99	-	19.70	5.70	103.38	71.08		
Operating Engineers - Group 4 - JP	54.91	82.37	109.82	2,070	565	1,129	113,692	46,510	124,028	284,231	41.99	-	9.85	3.07	54.91	62.99	-	14.78	4.60	82.37	83.99	-	19.70	6.14	109.82	75.50		
Operating Engineers - Group 2 - JP	53.39	80.08	106.78	1,956	533	1,067	104,419	42,717	113,912	261,049	40.58	-	9.85	2.96	53.39	60.86	-	14.78	4.45	80.08	81.15	-	19.70	5.93	106.78	73.41		
Operating Engineers - Group 2 - JP	56.61	84.91	113.22	1,956	533	1,067	110,715	45,293	120,781	276,789	43.58	-	9.85	3.18	56.61	65.36	-	14.78	4.78	84.91	87.15	-	19.70	6.37	113.22	77.84		
Operating Engineers - Group 1 - Non-Working foreperson	60.75	91.13	121.50	713	194	389	43,320	17,722	47,259	108,301	47.44	-	9.85	3.47	60.75	71.15	-	14.78	5.20	91.13	94.87	-	19.70	6.93	121.50	83.53		
Operating Engineers - Group 1 - Non-Working foreperson	63.97	95.96	127.94	713	194	389	45,616	18,661	49,763	114,040	50.44	-	9.85	3.68	63.97	75.65	-	14.78	5.53	95.96	100.87	-	19.70	7.37	127.94	87.96		
Operating Engineers - Group 1 - General foreperson	62.80	94.20	125.60	3,637	992	1,984	228,418	93,444	249,184	571,046	49.35	-	9.85	3.61	62.80	74.02	-	14.78	5.41	94.20	98.69	-	19.70	7.21	125.60	86.35		
Operating Engineers - Group 1 - General foreperson	66.02	99.03	132.04	3,637	992	1,984	240,127	98,234	261,957	600,318	52.35	-	9.85	3.82	66.02	78.52	-	14.78	5.74	99.03	104.69	-	19.70	7.65	132.04	90.78		
Operating Engineers - Group 1 - General foreperson	62.80	94.20	125.60	1,220	333	665	76,594	31,334	83,557	191,486	49.35	-	9.85	3.61	62.80	74.02	-	14.78	5.41	94.20	98.69	-	19.70	7.21	125.60	86.35		
Operating Engineers - Group 1 - General foreperson	66.02	99.03	132.04	1,220	333	665	80,520	32,940	87,840	201,301	52.35	-	9.85	3.82	66.02	78.52	-	14.78	5.74	99.03	104.69	-	19.70	7.65	132.04	90.78		
Operating Engineers - Clerical Group 3	48.78	73.17	97.56	406	111	222	19,827	8,111	21,630	49,569	36.28	-	9.85	2.65	48.78	54.42	-	14.78	3.98	73.17	72.56	-	19.70	5.30	97.56	67.08		
Operating Engineers - Clerical Group 1	44.47	66.70	88.93	1,888	515	1,030	83,933	34,336	91,563	209,831	32.26	-	9.85	2.36	44.47	48.39	-	14.78	3.54	66.70	64.52	-	19.70	4.71	88.93	61.14		
Operating Engineers - Clerical Group 1	44.47	66.70	88.93	406	111	222	18,073	7,393	19,716	45,182	32.26	-	9.85	2.36	44.47	48.39	-	14.78	3.54	66.70	64.52	-	19.70	4.71	88.93	61.14		
Operating Engineers - Clerical Group 3	48.78	73.17	97.56	1,488	406	812	72,602	29,701	79,202	181,505	36.28	-	9.85	2.65	48.78	54.42	-	14.78	3.98	73.17	72.56	-	19.70	5.30	97.56	67.08		
Operating Engineers - Clerical Group 3	48.78	73.17	97.56	1,300	354	709	63,399	25,936	69,163	158,499	36.28	-	9.85	2.65	48.78	54.42	-	14.78	3.98	73.17	72.56	-	19.70	5.30	97.56	67.08		
Operating Engineers - Clerical Group 3	52.00	78.00	104.00	1,300	354	709	67,583	27,648	73,727	168,958	39.28	-	9.85	2.87	52.00	58.92	-	14.78	4.30	78.00	78.56	-	19.70	5.74	104.00	71.50		
Operating Engineers - Clerical Group 3	48.78	73.17	97.56	2,284	623	1,246	111,398	45,572	121,525	278,496	36.28	-	9.85	2.65	48.78	54.42	-	14.78	3.98	73.17	72.56	-	19.70	5.30	97.56	67.08		
Operating Engineers - Clerical Group 1	44.47	66.70	88.93	1,343	366	733	59,721	24,431	61,550	149,303	32.26	-	9.85	2.36	44.47	48.39	-	14.78	3.54	66.70	64.52	-	19.70	4.71	88.93	61.14		
Operating Engineers - Clerical Group 2	47.16	70.74	94.31	4,762	1,299	2,598	224,583	91,875	245,000	561,458	34.77	-	9.85	2.54	47.16	52.15	-	14.78	3.81	70.74	69.53	-	19.70	5.08	94.31	64.84		
Operating Engineers - Clerical Group 2	47.16	70.74	94.31	450	123	246	21,229	8,685	23,159	53,072	34.77	-	9.85	2.54	47.16	52.15	-	14.78	3.81	70.74	69.53	-	19.70	5.08	94.31	64.84		
Operating Engineers - Clerical Group 2	50.38	75.56	100.75	450	123	246	22,678	9,277	24,740	56,695	37.77	-	9.85	2.76	50.38	56.65	-	14.78	4.14	75.56	75.53	-	19.70	5.52	100.75	69.27		
Operating Engineers - Clerical Group 3	48.78	73.17	97.56	406	111	222	19,827	8,111	21,630	49,569	36.28	-	9.85	2.65	48.78	54.42	-	14.78	3.98	73.17	72.56	-	19.70	5.30	97.56	67.08		
Operating Engineers - Clerical Group 2	47.16	70.74	94.31	1,568	428	855	73,945	30,250	80,667	184,862	34.77	-	9.85	2.54	47.16	52.15	-	14.78	3.81	70.74	69.53	-	19.70	5.08	94.31	64.84		
Painters - Group 2	54.49	81.74	108.99	455	124	248	24																					





1.2.4 Sheet 4) Rates and Hours May 2014 (1 of 6)

1	2	Estimated Hours (May 1, 2014 - April 30, 2015)			Bidder Schedule			Project Labour Agreement Rates (\$ per hour)								Govt Burdens or MERCs (\$ per hour)				Premium Costs (\$ per hour)				
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Position and Level	Union	Total Hours (Day/Night)	Shift	% of Hrs Expected to Exceed Govt Maximums	Shift Schedule	Start Day	Schedule Long Name	Base Rate	Vacation Pay	Holiday Pay	ICP Premium	H&W	Pension	Other Add-ons	Shift Premium	CPP	EI	Payroll Tax	WHSCC	Height	Heavy Lifting	Boom	Trawl	
<b>Rates Effective May 2014 - April 2015</b>																								
Carpenters - Apprentice - 1	Carpenters	86,206	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	22.06	2.21	0.66	3.50	1.80	6.00	1.53	3.00	0.73	0.39	0.59	0.44	0.88	-	-	-	-
Carpenters - Apprentice - 1	Carpenters	86,206	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	22.06	2.21	0.66	3.50	1.80	6.00	1.53	3.00	0.80	0.43	0.65	0.49	0.88	-	-	-	-
Carpenters - Apprentice - 2	Carpenters	67	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	23.76	2.38	0.71	3.50	1.80	6.00	1.53	3.00	0.77	0.41	0.62	0.47	0.88	-	-	-	-
Carpenters - Apprentice - 2	Carpenters	67	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	23.76	2.38	0.71	3.50	1.80	6.00	1.53	3.00	0.85	0.45	0.68	0.52	0.88	-	-	-	-
Carpenters - Apprentice - 3	Carpenters	63,472	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.15	2.72	0.81	3.50	1.80	6.00	1.53	3.00	0.87	0.46	0.70	0.53	0.88	-	-	-	-
Carpenters - Apprentice - 3	Carpenters	63,472	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.15	2.72	0.81	3.50	1.80	6.00	1.53	3.00	0.94	0.50	0.76	0.58	0.88	-	-	-	-
Carpenters - Journeyman carpenter welder scaffolder	Carpenters	129,113	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.94	3.39	1.02	3.50	1.80	6.00	1.53	3.00	1.06	0.56	0.85	0.65	0.88	-	-	-	-
Carpenters - Journeyman carpenter welder scaffolder	Carpenters	129,113	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.94	3.39	1.02	3.50	1.80	6.00	1.53	3.00	1.13	0.60	0.91	0.69	0.88	-	-	-	-
Carpenters - Working foreperson	Carpenters	37,101	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.34	3.73	1.12	3.50	1.80	6.00	1.53	3.00	1.15	0.61	0.93	0.71	0.88	-	-	-	-
Carpenters - Working foreperson	Carpenters	37,101	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.34	3.73	1.12	3.50	1.80	6.00	1.53	3.00	1.23	0.65	0.99	0.75	0.88	-	-	-	-
Carpenters - General foreperson	Carpenters	33,384	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.73	4.07	1.22	3.50	1.80	6.00	1.53	3.00	1.23	0.65	0.99	0.75	-	-	-	-	-
Carpenters - General foreperson	Carpenters	33,384	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.73	4.07	1.22	3.50	1.80	6.00	1.53	3.00	1.30	0.69	1.05	0.80	-	-	-	-	-
Electricians - Journeyman	Electricians	4,606	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	1.40	0.74	1.13	0.86	10.53	-	-	-	-
Electricians - Journeyman	Electricians	4,606	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	0.82	0.44	0.65	0.50	10.53	-	-	-	-
Electricians - Journeyman	Electricians	7,910	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	1.40	0.74	1.13	0.86	10.53	-	-	-	-
Electricians - Journeyman	Electricians	7,910	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	1.47	0.78	1.19	0.90	10.53	-	-	-	-
Electricians - Journeyman	Electricians	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	1.40	0.74	1.13	0.86	10.53	-	-	-	-
Electricians - Journeyman	Electricians	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	1.47	0.78	1.19	0.90	10.53	-	-	-	-
Electricians - Journeyman	Electricians	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	1.14	0.61	0.92	0.70	-	-	-	-	-
Electricians - Journeyman	Electricians	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	1.21	0.64	0.98	0.74	-	-	-	-	-
Electricians - Apprentice - 3rd year	Electricians	3,289	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	0.82	0.44	0.65	0.50	-	-	-	-	-
Electricians - Apprentice - 3rd year	Electricians	3,289	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	0.90	0.48	0.72	0.55	-	-	-	-	-
Electricians - Journeyman	Electricians	3,289	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	1.14	0.61	0.92	0.70	-	-	-	-	-
Electricians - Journeyman	Electricians	3,289	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.76	1.13	3.50	2.00	5.95	0.89	3.00	1.21	0.64	0.98	0.74	-	-	-	-	-
Electricians - Non-working foreperson	Electricians	1,099	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.36	4.14	1.24	3.50	2.00	5.95	0.89	3.00	1.24	0.66	1.00	0.76	-	-	-	-	-
Electricians - Non-working foreperson	Electricians	1,099	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.36	4.14	1.24	3.50	2.00	5.95	0.89	3.00	1.32	0.70	1.06	0.81	-	-	-	-	-
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	Ironworkers	61,186	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	24.06	2.41	0.84	3.50	1.81	6.00	2.37	3.00	0.77	0.41	0.63	0.47	0.50	-	-	-	-
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	Ironworkers	61,186	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	24.06	2.41	0.84	3.50	1.81	6.00	2.37	3.00	0.80	0.44	0.64	0.49	0.50	-	-	-	-
Ironworkers - Structural Apprentice - 1st 1,000 hrs	Ironworkers	3,612	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	24.87	2.49	0.87	3.50	1.81	6.00	2.37	3.00	0.80	0.42	0.64	0.49	0.50	-	-	-	-
Ironworkers - Structural Apprentice - 1st 1,000 hrs	Ironworkers	3,612	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	24.87	2.49	0.87	3.50	1.81	6.00	2.37	3.00	0.87	0.46	0.70	0.53	0.50	-	-	-	-
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	Ironworkers	37,047	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	30.94	3.09	1.08	3.50	1.81	6.00	2.37	3.00	0.97	0.51	0.78	0.59	0.50	-	-	-	-
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	Ironworkers	37,047	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	30.94	3.09	1.08	3.50	1.81	6.00	2.37	3.00	1.04	0.55	0.84	0.64	0.50	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	4,695	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.97	3.20	1.12	3.50	1.81	6.00	2.37	3.00	1.00	0.53	0.81	0.61	0.50	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	4,695	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.97	3.20	1.12	3.50	1.81	6.00	2.37	3.00	1.07	0.57	0.87	0.66	0.50	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	7,910	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.97	3.20	1.12	3.50	1.81	6.00	2.37	3.00	1.00	0.53	0.81	0.61	0.50	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	7,910	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.97	3.20	1.12	3.50	1.81	6.00	2.37	3.00	1.07	0.57	0.87	0.66	0.50	-	-	-	-
Ironworkers - Rebar Journeyman	Ironworkers	74,052	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.37	3.44	1.20	3.50	1.81	6.00	2.37	3.00	1.06	0.57	0.86	0.65	0.50	-	-	-	-
Ironworkers - Rebar Journeyman	Ironworkers	74,052	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.37	3.44	1.20	3.50	1.81	6.00	2.37	3.00	1.14	0.61	0.92	0.70	0.50	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	8,265	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.52	3.55	1.24	3.50	1.81	6.00	2.37	3.00	1.08	0.58	0.88	0.66	-	-	-	-	
Ironworkers - Structural Journeyman	Ironworkers	8,265	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.52	3.55	1.24	3.50	1.81	6.00	2.37	3.00	1.16	0.62	0.94	0.71	-	-	-	-	
Ironworkers - Structural Journeyman	Ironworkers	5,823	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.52	3.55	1.24	3.50	1.81	6.00	2.37	3.00	1.08	0.58	0.88	0.66	-	-	-	-	
Ironworkers - Structural Journeyman	Ironworkers	5,823	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.52	3.55	1.24	3.50	1.81	6.00	2.37	3.00	1.16	0.62	0.94	0.71	-	-	-	-	
Ironworkers - Rebar foreperson	Ironworkers	18,532	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.53	3.95	1.38	3.50	1.81	6.00	2.37	3.00	1.20	0.64	0.97	0.73	-	-	-	-	
Ironworkers - Rebar foreperson	Ironworkers	18,532	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.53	3.95	1.38	3.50	1.81	6.00	2.37	3.00	1.27	0.68	1.03	0.78	-	-	-	-	
Ironworkers - Structural foreperson	Ironworkers	1,823	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.85	4.09	1.43	3.50	1.81	6.00	2.37	3.00	1.23	0.66	1.00	0.76	-	-	-	-	
Ironworkers - Structural foreperson	Ironworkers	1,823	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.85	4.09	1.43	3.50	1.81	6.00	2.37	3.00	1.31	0.70	1.06	0.80	-	-	-	-	
Ironworkers - Structural foreperson	Ironworkers	250	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.85	4.09															







1.2.4 Sheet 4) Rates and Hours May 2014 (4 of 6)

1	2	3		5	6		8	9								17				21			
		4			7			Project Labour Agreement Rates (\$ per hour)								Govt Burdens or MERCs (\$ per hour)				Premium Costs (\$ per hour)			
Rates Effective May 2014 - April 2015																							
Position and Level	Union	Total Hours	Shift	% of Hrs Expected to Exceed Govt Burden Maximums	Shift Schedule	Start Day	Schedule Long Name	Base Rate	Vacation Pay	Holiday Pay	LCP Premium	H&W	Pension	Add-ons	Shift Premium	CPP	EI	Tax	WHSCC	Height	Heavy Lifting	Boom	Tool
Operating Engineers - Group 3 - JP	Operating Engineers	7,145	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.61	3.12	1.38	3.50	2.15	6.00	1.70	3.00	1.05	0.56	0.85	0.65	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	7,145	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.61	3.12	1.38	3.50	2.15	6.00	1.70	3.00	1.13	0.60	0.91	0.69	-	-	-	-
Operating Engineers - Group 1 - JP	Operating Engineers	50,667	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.02	3.24	1.44	3.50	2.15	6.00	1.70	3.00	1.09	0.58	0.88	0.67	-	-	-	-
Operating Engineers - Group 1 - JP	Operating Engineers	50,667	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.02	3.24	1.44	3.50	2.15	6.00	1.70	3.00	1.17	0.62	0.94	0.72	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	11,246	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.61	3.12	1.38	3.50	2.15	6.00	1.70	3.00	1.05	0.56	0.85	0.65	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	11,246	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.61	3.12	1.38	3.50	2.15	6.00	1.70	3.00	1.13	0.60	0.91	0.69	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	19,234	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.88	2.96	1.32	3.50	2.15	6.00	1.70	3.00	1.01	0.54	0.81	0.62	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	19,234	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.88	2.96	1.32	3.50	2.15	6.00	1.70	3.00	1.08	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	24,980	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.62	3.03	1.34	3.50	2.15	6.00	1.70	3.00	1.03	0.55	0.83	0.63	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	24,980	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.62	3.03	1.34	3.50	2.15	6.00	1.70	3.00	1.10	0.59	0.89	0.67	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	19,234	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.02	3.15	1.40	3.50	2.15	6.00	1.70	3.00	1.07	0.57	0.86	0.65	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	19,234	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.02	3.15	1.40	3.50	2.15	6.00	1.70	3.00	1.14	0.61	0.92	0.70	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	19,234	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.43	3.73	1.66	3.50	2.15	6.00	1.70	3.00	1.25	0.66	1.01	0.76	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	19,234	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.43	3.73	1.66	3.50	2.15	6.00	1.70	3.00	1.32	0.70	1.07	0.81	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	25	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.88	2.96	1.32	3.50	2.15	6.00	1.70	3.00	1.01	0.54	0.81	0.62	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	25	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.88	2.96	1.32	3.50	2.15	6.00	1.70	3.00	1.08	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	12,175	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.62	3.03	1.34	3.50	2.15	6.00	1.70	3.00	1.03	0.55	0.83	0.63	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	12,175	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.62	3.03	1.34	3.50	2.15	6.00	1.70	3.00	1.10	0.59	0.89	0.67	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	12,133	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.02	3.15	1.40	3.50	2.15	6.00	1.70	3.00	1.07	0.57	0.86	0.65	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	12,133	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.02	3.15	1.40	3.50	2.15	6.00	1.70	3.00	1.14	0.61	0.92	0.70	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	4,067	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.43	3.73	1.66	3.50	2.15	6.00	1.70	3.00	1.25	0.66	1.01	0.76	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	4,067	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.43	3.73	1.66	3.50	2.15	6.00	1.70	3.00	1.32	0.70	1.07	0.81	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	26,052	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	43.23	3.89	1.73	3.50	2.15	6.00	1.70	3.00	1.30	0.69	1.05	0.79	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	26,052	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	43.23	3.89	1.73	3.50	2.15	6.00	1.70	3.00	1.37	0.73	1.11	0.84	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	8,736	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	43.23	3.89	1.73	3.50	2.15	6.00	1.70	3.00	1.30	0.69	1.05	0.79	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	8,736	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	43.23	3.89	1.73	3.50	2.15	6.00	1.70	3.00	1.37	0.73	1.11	0.84	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	2,912	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.22	2.81	1.25	3.50	2.15	6.00	1.70	3.00	0.96	0.51	0.78	0.59	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	13,520	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.66	2.49	1.11	3.50	2.15	6.00	1.70	3.00	0.86	0.46	0.70	0.53	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	2,912	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.66	2.49	1.11	3.50	2.15	6.00	1.70	3.00	0.86	0.46	0.70	0.53	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	10,660	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.22	2.81	1.25	3.50	2.15	6.00	1.70	3.00	0.96	0.51	0.78	0.59	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	9,308	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.22	2.81	1.25	3.50	2.15	6.00	1.70	3.00	0.96	0.51	0.78	0.59	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	9,308	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.22	2.81	1.25	3.50	2.15	6.00	1.70	3.00	1.03	0.55	0.84	0.63	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	8,476	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.22	2.81	1.25	3.50	2.15	6.00	1.70	3.00	0.96	0.51	0.78	0.59	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	9,620	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.66	2.49	1.11	3.50	2.15	6.00	1.70	3.00	0.86	0.46	0.70	0.53	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	34,112	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.88	2.69	1.20	3.50	2.15	6.00	1.70	3.00	0.92	0.49	0.75	0.56	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	3,224	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.88	2.69	1.20	3.50	2.15	6.00	1.70	3.00	0.92	0.49	0.75	0.56	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	3,224	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.88	2.69	1.20	3.50	2.15	6.00	1.70	3.00	1.00	0.53	0.81	0.61	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	2,912	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.22	2.81	1.25	3.50	2.15	6.00	1.70	3.00	0.96	0.51	0.78	0.59	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	11,232	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.88	2.69	1.20	3.50	2.15	6.00	1.70	3.00	0.92	0.49	0.75	0.56	-	-	-	-
Painters - Group 2	Painters	2,667	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.67	3.67	1.10	3.50	2.25	5.00	1.70	3.00	1.11	0.59	0.90	0.68	-	-	-	-
Painters - Group 2	Painters	2,667	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.67	3.67	1.10	3.50	2.25	5.00	1.70	3.00	1.19	0.63	0.96	0.73	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	11,794	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.27	3.26	1.45	3.50	1.75	2.50	1.10	3.00	1.10	0.59	0.89	0.67	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	11,794	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.27	3.26	1.45	3.50	1.75	2.50	1.10	3.00	1.18	0.62	0.95	0.72	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	26,997	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.70	3.30	1.47	3.50	1.75	2.50	1.10	3.00	1.11	0.59	0.90	0.68	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	26,997	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.70	3.30	1.47	3.50	1.75	2.50	1.10	3.00	1.19	0.63	0.96	0.73	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	19,734	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.27	3.26	1.45	3.50	1.75	2.50	1.10	3.00	1.10	0.59	0.89	0.67	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	19,734	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.27	3.26	1.45	3.50	1.75	2.50	1.10	3.00	1.18	0.62	0.95	0.72	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	22,743	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.70	3.30	1.47	3.50	1.75	2.50	1.10	3.00	1.11	0.59	0.90	0.68	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	22,743	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.70	3.30	1.47	3.50	1.75	2.50	1.10	3.00	1.19	0.63	0.96	0.73	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	2,507	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.70	3.30	1.47	3.50	1.75	2.50	1.10	3.00	1.11	0.59	0.90	0.68	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	2,507	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.70	3.30	1.47	3.50	1.75	2.50	1.10	3.00	1.19	0.63	0.96	0.73	-	-	-	-
<b>Totals</b>		<b>2,349,240</b>																					

1.2.4 Sheet 4) Rates and Hours May 2014 (5 of 6)

1	All-in Rates (\$ per hour)			Hours by Rate			Total Cost (\$)				Regular Time Labour Rate Summary (\$ per hour)				1.5 x OT Labour Rate Summary (\$ per hour)				2 x OT Labour Rate Summary (\$ per hour)				Avg Blended Rate (based on selected schedule)				
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46		47	48	49	50
	All-in Reg Time Rate	All-in 1.5 x OT Rate	All-in 2 x OT Rate	Reg Hrs	1.5 x OT Hours	2 x OT Hours	Reg Hrs Cost	1.5 x OT Hours Cost	2 x OT Hours Cost	Total Labour Cost	Wages	Premium \$	Union Add-ons	MERCs	Total Reg Rate	Wages	Premium \$	Union Add-ons	MERCs	Total 1.5 x OT Rate	Wages	Premium \$		Union Add-ons	MERCs	Total 2 x OT Rate	
<b>Rates Effective May 2014 - April 2015</b>																											
Operating Engineers - Group 3 - JP	55.58	83.36	111.15	3,930	1,072	2,144	218,396	89,344	238,251	545,991	42.61	-	9.85	3.11	55.58	63.92	-	14.78	4.67	83.36	85.22	-	19.70	6.23	111.15		76.42
Operating Engineers - Group 3 - JP	58.79	88.19	117.59	3,930	1,072	2,144	231,047	94,519	252,051	577,617	45.61	-	9.85	3.33	58.79	68.42	-	14.78	5.00	88.19	91.22	-	19.70	6.66	117.59		80.84
Operating Engineers - Group 1 - JP	57.28	85.93	114.57	27,867	7,600	15,200	1,596,332	653,045	1,741,453	3,990,830	44.21	-	9.85	3.23	57.28	66.31	-	14.78	4.84	85.93	88.41	-	19.70	6.46	114.57		78.77
Operating Engineers - Group 1 - JP	60.50	90.76	121.01	27,867	7,600	15,200	1,686,040	689,743	1,839,316	4,215,099	47.21	-	9.85	3.45	60.50	70.81	-	14.78	5.17	90.76	94.41	-	19.70	6.90	121.01		83.19
Operating Engineers - Group 3 - JP	55.58	83.36	111.15	6,185	1,687	3,374	343,749	140,625	374,999	859,372	42.61	-	9.85	3.11	55.58	63.92	-	14.78	4.67	83.36	85.22	-	19.70	6.23	111.15		76.42
Operating Engineers - Group 3 - JP	58.79	88.19	117.59	6,185	1,687	3,374	363,660	148,770	396,720	909,151	45.61	-	9.85	3.33	58.79	68.42	-	14.78	5.00	88.19	91.22	-	19.70	6.66	117.59		80.84
Operating Engineers - Group 5 - JP	53.48	80.22	106.95	10,579	2,885	5,770	565,721	231,431	617,151	1,414,303	40.66	-	9.85	2.97	53.48	60.99	-	14.78	4.46	80.22	81.31	-	19.70	5.94	106.95		73.53
Operating Engineers - Group 5 - JP	56.70	85.04	113.39	10,579	2,885	5,770	599,776	245,363	654,301	1,499,440	43.66	-	9.85	3.19	56.70	65.49	-	14.78	4.78	85.04	87.31	-	19.70	6.38	113.39		77.96
Operating Engineers - Group 4 - JP	54.37	81.56	108.75	13,739	3,747	7,494	747,039	305,607	814,952	1,867,597	41.49	-	9.85	3.03	54.37	62.24	-	14.78	4.55	81.56	82.99	-	19.70	6.06	108.75		74.77
Operating Engineers - Group 4 - JP	57.59	86.39	115.19	13,739	3,747	7,494	791,266	323,700	863,200	1,978,166	44.49	-	9.85	3.25	57.59	66.74	-	14.78	4.88	86.39	88.99	-	19.70	6.50	115.19		79.19
Operating Engineers - Group 2 - JP	56.07	84.11	112.14	10,579	2,885	5,770	593,172	242,661	647,096	1,482,929	43.08	-	9.85	3.15	56.07	64.61	-	14.78	4.72	84.11	86.15	-	19.70	6.29	112.14		77.10
Operating Engineers - Group 2 - JP	59.29	88.94	118.58	10,579	2,885	5,770	627,227	256,593	684,247	1,568,066	46.08	-	9.85	3.37	59.29	69.11	-	14.78	5.05	88.94	92.15	-	19.70	6.73	118.58		81.53
Operating Engineers - Group 1 - Non-Working foreperson	63.84	95.76	127.67	10,579	2,885	5,770	675,309	276,263	736,701	1,688,273	50.31	-	9.85	3.68	63.84	75.47	-	14.78	5.51	95.76	100.62	-	19.70	7.35	127.67		87.78
Operating Engineers - Group 1 - Non-Working foreperson	67.06	100.58	134.11	10,579	2,885	5,770	709,364	290,194	773,852	1,773,410	53.31	-	9.85	3.89	67.06	79.97	-	14.78	5.84	100.58	106.62	-	19.70	7.79	134.11		92.20
Operating Engineers - Group 5 - JP	53.48	80.22	106.95	14	4	8	735	301	802	1,838	40.66	-	9.85	2.97	53.48	60.99	-	14.78	4.46	80.22	81.31	-	19.70	5.94	106.95		73.53
Operating Engineers - Group 5 - JP	56.70	85.04	113.39	14	4	8	780	319	850	1,949	43.66	-	9.85	3.19	56.70	65.49	-	14.78	4.78	85.04	87.31	-	19.70	6.38	113.39		77.96
Operating Engineers - Group 5 - JP	54.37	81.56	108.75	6,696	1,826	3,652	364,092	148,947	397,191	910,229	41.49	-	9.85	3.03	54.37	62.24	-	14.78	4.55	81.56	82.99	-	19.70	6.06	108.75		74.77
Operating Engineers - Group 4 - JP	57.59	86.39	115.19	6,696	1,826	3,652	385,647	157,765	420,706	964,118	44.49	-	9.85	3.25	57.59	66.74	-	14.78	4.88	86.39	88.99	-	19.70	6.50	115.19		79.19
Operating Engineers - Group 2 - JP	56.07	84.11	112.14	6,673	1,820	3,640	374,163	153,067	408,178	935,408	43.08	-	9.85	3.15	56.07	64.61	-	14.78	4.72	84.11	86.15	-	19.70	6.29	112.14		77.10
Operating Engineers - Group 2 - JP	59.29	88.94	118.58	6,673	1,820	3,640	395,644	161,855	431,612	989,111	46.08	-	9.85	3.37	59.29	69.11	-	14.78	5.05	88.94	92.15	-	19.70	6.73	118.58		81.53
Operating Engineers - Group 1 - Non-Working foreperson	63.84	95.76	127.67	2,237	610	1,220	142,776	58,408	155,755	356,939	50.31	-	9.85	3.68	63.84	75.47	-	14.78	5.51	95.76	100.62	-	19.70	7.35	127.67		87.78
Operating Engineers - Group 1 - Non-Working foreperson	67.06	100.58	134.11	2,237	610	1,220	149,576	61,354	163,610	374,939	53.31	-	9.85	3.89	67.06	79.97	-	14.78	5.84	100.58	106.62	-	19.70	7.79	134.11		92.20
Operating Engineers - Group 1 - General foreperson	66.02	99.03	132.04	14,329	3,908	7,816	945,584	386,993	1,031,982	2,364,959	52.35	-	9.85	3.82	66.02	78.52	-	14.78	5.74	99.03	104.69	-	19.70	7.65	132.04		90.78
Operating Engineers - Group 2 - General foreperson	69.24	103.86	138.48	14,329	3,908	7,816	992,110	405,863	1,082,302	2,480,275	55.35	-	9.85	4.04	69.24	83.02	-	14.78	6.07	103.86	110.69	-	19.70	8.09	138.48		95.20
Operating Engineers - Group 1 - General foreperson	66.02	99.03	132.04	4,805	1,310	2,621	317,216	129,770	346,054	793,040	52.35	-	9.85	3.82	66.02	78.52	-	14.78	5.74	99.03	104.69	-	19.70	7.65	132.04		90.78
Operating Engineers - Group 1 - General foreperson	69.24	103.86	138.48	4,805	1,310	2,621	332,684	136,098	362,928	831,709	55.35	-	9.85	4.04	69.24	83.02	-	14.78	6.07	103.86	110.69	-	19.70	8.09	138.48		95.20
Operating Engineers - Clerical Group 3	51.46	77.20	102.93	1,602	437	874	82,426	33,720	89,919	206,064	38.78	-	9.85	2.83	51.46	58.17	-	14.78	4.25	77.20	77.56	-	19.70	5.67	102.93		70.76
Operating Engineers - Clerical Group 1	47.15	70.72	94.30	7,436	2,028	4,056	350,591	143,424	382,463	876,479	34.76	-	9.85	2.54	47.15	52.14	-	14.78	3.81	70.72	69.52	-	19.70	5.08	94.30		64.83
Operating Engineers - Clerical Group 1	47.15	70.72	94.30	1,602	437	874	75,512	30,891	82,377	188,780	34.76	-	9.85	2.54	47.15	52.14	-	14.78	3.81	70.72	69.52	-	19.70	5.08	94.30		64.83
Operating Engineers - Clerical Group 3	51.46	77.20	102.93	5,863	1,599	3,198	301,737	123,438	329,167	754,342	38.78	-	9.85	2.83	51.46	58.17	-	14.78	4.25	77.20	77.56	-	19.70	5.67	102.93		70.76
Operating Engineers - Clerical Group 3	51.46	77.20	102.93	5,119	1,396	2,792	263,468	107,782	287,419	658,669	38.78	-	9.85	2.83	51.46	58.17	-	14.78	4.25	77.20	77.56	-	19.70	5.67	102.93		70.76
Operating Engineers - Clerical Group 3	54.68	82.03	109.37	5,119	1,396	2,792	279,348	114,524	305,398	699,870	41.78	-	9.85	3.05	54.68	62.67	-	14.78	4.58	82.03	83.56	-	19.70	6.11	109.37		75.19
Operating Engineers - Clerical Group 3	51.46	77.20	102.93	4,662	1,271	2,543	239,917	98,148	261,728	599,794	38.78	-	9.85	2.83	51.46	58.17	-	14.78	4.25	77.20	77.56	-	19.70	5.67	102.93		70.76
Operating Engineers - Clerical Group 1	47.15	70.72	94.30	5,291	1,443	2,886	249,459	102,052	272,137	623,648	34.76	-	9.85	2.54	47.15	52.14	-	14.78	3.81	70.72	69.52	-	19.70	5.08	94.30		64.83
Operating Engineers - Clerical Group 2	49.84	74.76	99.68	18,762	5,117	10,234	935,073	382,530	1,020,080	2,337,683	37.27	-	9.85	2.72	49.84	55.90	-	14.78	4.08	74.76	74.53	-	19.70	5.45	99.68		68.53
Operating Engineers - Clerical Group 2	49.84	74.76	99.68	1,773	484	967	88,376	36,154	96,410	220,940	37.27	-	9.85	2.72	49.84	55.90	-	14.78	4.08	74.76	74.53	-	19.70	5.45	99.68		68.53
Operating Engineers - Clerical Group 2	53.06	79.59	106.12	1,773	484	967	94,084	38,489	102,637	235,210	40.27	-	9.85	2.94	53.06	60.40	-	14.78	4.41	79.59	80.53	-	19.70	5.88	106.12		72.96
Operating Engineers - Clerical Group 3	51.46	77.20	102.93	1,602	437	874	82,426	33,720	89,919	206,064	38.78	-	9.85	2.83	51.46	58.17	-	14.78	4.25	77.20	77.56	-	19.70	5.67	102.93		



1.2.5 Sheet 5) Rates and Hours May 2015 (1 of 6)

		Estimated Hours (May 1, 2015 - April 30, 2016)			Bidder Schedule		Project Labour Agreement Rates (\$ per hour)										Govt Burdens or MERCS (\$ per hour)				Premium Costs (\$ per hour)			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Rates Effective May 2015 - April 2016		Total Hours	Shift (Day/Night)	% of Hrs Expected to Exceed Govt Burden Maximums	Shift Schedule	Start Day	Schedule Long Name	Base Pay	Vacation Pay	Holiday Pay	LCP Premium	H&W	Pension	Other Add-ons	Shift Premium	CPP	El	Payroll Tax	WISCC	Height	Heavy Lifting	Boom	Totol	
Carpenters - Apprentice - 1	Carpenters	40,029	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	23.21	2.32	0.70	3.50	1.80	6.00	1.53	3.00	0.75	0.40	0.61	0.46	0.70	-	-	-	-
Carpenters - Apprentice - 1	Carpenters	40,029	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	23.21	2.32	0.70	3.50	1.80	6.00	1.53	3.00	0.83	0.44	0.67	0.51	0.70	-	-	-	-
Carpenters - Apprentice - 2	Carpenters	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	25.00	2.50	0.75	3.50	1.80	6.00	1.53	3.00	0.80	0.43	0.65	0.49	0.70	-	-	-	-
Carpenters - Apprentice - 2	Carpenters	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	25.00	2.50	0.75	3.50	1.80	6.00	1.53	3.00	0.88	0.47	0.71	0.54	0.70	-	-	-	-
Carpenters - Apprentice - 3	Carpenters	31,679	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	28.57	2.86	0.86	3.50	1.80	6.00	1.53	3.00	0.90	0.48	0.73	0.55	0.70	-	-	-	-
Carpenters - Apprentice - 3	Carpenters	31,679	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	28.57	2.86	0.86	3.50	1.80	6.00	1.53	3.00	0.98	0.52	0.79	0.60	0.70	-	-	-	-
Carpenters - Journeyman carpenter welder scaffoldor	Carpenters	65,380	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.71	3.57	1.07	3.50	1.80	6.00	1.53	3.00	1.10	0.59	0.89	0.68	0.70	-	-	-	-
Carpenters - Journeyman carpenter welder scaffoldor	Carpenters	65,380	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.71	3.57	1.07	3.50	1.80	6.00	1.53	3.00	1.18	0.63	0.95	0.70	0.70	-	-	-	-
Carpenters - Working foreperson	Carpenters	18,137	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.28	3.93	1.18	3.50	1.80	6.00	1.53	3.00	1.20	0.64	0.97	0.74	0.70	-	-	-	-
Carpenters - Working foreperson	Carpenters	18,137	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.28	3.93	1.18	3.50	1.80	6.00	1.53	3.00	1.28	0.68	1.03	0.78	0.70	-	-	-	-
Carpenters - General foreperson	Carpenters	33,491	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.85	4.29	1.29	3.50	1.80	6.00	1.53	3.00	1.30	0.69	1.05	0.80	0.70	-	-	-	-
Carpenters - General foreperson	Carpenters	33,491	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.85	4.29	1.29	3.50	1.80	6.00	1.53	3.00	1.36	0.72	1.10	0.83	-	-	-	-	-
Electricians - Journeyman	Electricians	2,724	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.94	1.18	3.50	2.00	5.95	0.89	3.00	1.40	0.75	1.13	0.86	8.66	-	-	-	-
Electricians - Journeyman	Electricians	2,724	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.94	1.18	3.50	2.00	5.95	0.89	3.00	1.48	0.79	1.19	0.90	8.66	-	-	-	-
Electricians - Journeyman	Electricians	3,168	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.94	1.18	3.50	2.00	5.95	0.89	3.00	1.40	0.75	1.13	0.86	8.66	-	-	-	-
Electricians - Journeyman	Electricians	3,168	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.94	1.18	3.50	2.00	5.95	0.89	3.00	1.48	0.79	1.19	0.90	8.66	-	-	-	-
Electricians - Journeyman	Electricians	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.94	1.18	3.50	2.00	5.95	0.89	3.00	1.40	0.75	1.13	0.86	8.66	-	-	-	-
Electricians - Journeyman	Electricians	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.94	1.18	3.50	2.00	5.95	0.89	3.00	1.48	0.79	1.19	0.90	8.66	-	-	-	-
Electricians - Journeyman	Electricians	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.94	1.18	3.50	2.00	5.95	0.89	3.00	1.19	0.63	0.96	0.73	-	-	-	-	-
Electricians - Journeyman	Electricians	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.94	1.18	3.50	2.00	5.95	0.89	3.00	1.26	0.67	1.02	0.77	-	-	-	-	-
Electricians - Apprentice - 3rd year	Electricians	1,762	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.56	2.76	0.83	3.50	2.00	5.95	0.89	3.00	0.86	0.46	0.69	0.52	-	-	-	-	-
Electricians - Apprentice - 3rd year	Electricians	1,762	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.56	2.76	0.83	3.50	2.00	5.95	0.89	3.00	0.93	0.50	0.75	0.57	-	-	-	-	-
Electricians - Journeyman	Electricians	1,762	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.94	1.18	3.50	2.00	5.95	0.89	3.00	1.19	0.63	0.96	0.73	-	-	-	-	-
Electricians - Journeyman	Electricians	1,762	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.94	1.18	3.50	2.00	5.95	0.89	3.00	1.26	0.67	1.02	0.77	-	-	-	-	-
Electricians - Non-working foreperson	Electricians	587	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	43.31	4.33	1.30	3.50	2.00	5.95	0.89	3.00	1.30	0.69	1.05	0.79	-	-	-	-	-
Electricians - Non-working foreperson	Electricians	587	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	43.31	4.33	1.30	3.50	2.00	5.95	0.89	3.00	1.37	0.73	1.11	0.84	-	-	-	-	-
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	Ironworkers	22,152	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	25.30	2.53	0.89	3.50	1.81	6.00	2.37	3.00	0.81	0.43	0.65	0.49	0.40	-	-	-	-
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	Ironworkers	22,152	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	25.30	2.53	0.89	3.50	1.81	6.00	2.37	3.00	0.88	0.47	0.71	0.54	0.40	-	-	-	-
Ironworkers - Structural Apprentice - 1st 1,000 hrs	Ironworkers	7,884	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	26.10	2.61	0.91	3.50	1.81	6.00	2.37	3.00	0.83	0.44	0.67	0.51	0.40	-	-	-	-
Ironworkers - Structural Apprentice - 1st 1,000 hrs	Ironworkers	7,884	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	26.10	2.61	0.91	3.50	1.81	6.00	2.37	3.00	0.90	0.48	0.73	0.55	0.40	-	-	-	-
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	Ironworkers	13,546	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.52	3.25	1.14	3.50	1.81	6.00	2.37	3.00	1.01	0.54	0.82	0.63	0.40	-	-	-	-
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	Ironworkers	13,546	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.52	3.25	1.14	3.50	1.81	6.00	2.37	3.00	1.08	0.58	0.88	0.66	0.40	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	8,224	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.56	3.36	1.17	3.50	1.81	6.00	2.37	3.00	1.04	0.55	0.84	0.64	0.40	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	8,224	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.56	3.36	1.17	3.50	1.81	6.00	2.37	3.00	1.11	0.59	0.90	0.68	0.40	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	3,168	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.56	3.36	1.17	3.50	1.81	6.00	2.37	3.00	1.04	0.55	0.84	0.64	0.40	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	3,168	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.56	3.36	1.17	3.50	1.81	6.00	2.37	3.00	1.11	0.59	0.90	0.68	0.40	-	-	-	-
Ironworkers - Rebar Journeyman	Ironworkers	27,091	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.14	3.61	1.26	3.50	1.81	6.00	2.37	3.00	1.11	0.59	0.90	0.68	0.40	-	-	-	-
Ironworkers - Rebar Journeyman	Ironworkers	27,091	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.14	3.61	1.26	3.50	1.81	6.00	2.37	3.00	1.18	0.63	0.96	0.73	0.40	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	16,107	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.29	3.73	1.31	3.50	1.81	6.00	2.37	3.00	1.13	0.60	0.92	0.69	-	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	16,107	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.29	3.73	1.31	3.50	1.81	6.00	2.37	3.00	1.21	0.64	0.98	0.74	-	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	2,431	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.29	3.73	1.31	3.50	1.81	6.00	2.37	3.00	1.13	0.60	0.92	0.69	-	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	2,431	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.29	3.73	1.31	3.50	1.81	6.00	2.37	3.00	1.21	0.64	0.98	0.74	-	-	-	-	-
Ironworkers - Rebar foreperson	Ironworkers	6,773	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.56	4.16	1.45	3.50	1.81	6.00	2.37	3.00	1.25	0.67	1.01	0.77	-	-	-	-	-
Ironworkers - Rebar foreperson	Ironworkers	6,773	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.56	4.16	1.45	3.50	1.81	6.00	2.37	3.00	1.33	0.71	1.07	0.81	-	-	-	-	-
Ironworkers - Structural foreperson	Ironworkers	4,112	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.88	4.29	1.50	3.50	1.81	6.00	2.37	3.00	1.29	0.69	1.04	0.79	-	-	-	-	-
Ironworkers - Structural foreperson	Ironworkers	4,112	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.88	4.29	1.50	3.50	1.81	6.00	2.37	3.00	1.37	0.73	1.10	0.84	-	-	-	-	-
Ironworkers - Structural foreperson	Ironworkers	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.88	4.29	1.50	3.50	1.81												



Target Cost of Labour Breakdown  
Agreement No.: CH0007-001

1.2.5 Sheet 5) Rates and Hours May 2015 (2 of 6)

Position and Level	All-in Rates (\$ per hour)			Hours by Rate						Total Cost (\$)			Regular Time Labour Rate Summary (\$ per hour)					1.5 x OT Labour Rate Summary (\$ per hour)				2 x OT Labour Rate Summary (\$ per hour)				Avg Blended Rate (Including OT based on selected schedule)	
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49		50
	All-in Reg Time Rate	All-in 1.5 x OT Rate	All-in 2 x OT Rate	Reg Hrs	1.5 x OT Hrs	2 x OT Hrs	Reg Hrs Cost	1.5 x OT Hrs Cost	2 x OT Hrs Cost	Total Labour Cost	Wages	Premium %	Union Add-ons	MERCs	Total Reg Rate	Wages	Premium %	Union Add-ons	MERCs	Total 1.5 x OT Rate	Wages	Premium %	Union Add-ons	MERCs	Total 2 x OT Rate		
<b>Rates Effective May 2015 - April 2016</b>																											
Carpenters - Apprentice - 1	41.98	62.98	83.97	22,016	6,004	12,009	924,305	378,125	1,008,333	2,310,763	29.73	0.70	9.33	2.22	41.08	44.60	1.05	14.00	3.33	62.98	59.46	1.40	18.66	4.45	83.97	57.73	
Carpenters - Apprentice - 1	45.20	67.80	90.41	22,016	6,004	12,009	995,177	407,118	1,085,648	2,487,944	32.73	0.70	9.33	2.44	45.20	49.10	1.05	14.00	3.66	67.80	65.46	1.40	18.66	4.88	90.41	62.15	
Carpenters - Apprentice - 2	44.15	66.22	88.30	-	-	-	-	-	-	-	31.75	0.70	9.33	2.37	44.15	47.62	1.05	14.00	3.56	66.22	63.50	1.40	18.66	4.74	88.30	-	
Carpenters - Apprentice - 2	47.37	71.05	94.74	-	-	-	-	-	-	-	34.75	0.70	9.33	2.59	47.37	52.12	1.05	14.00	3.88	71.05	69.50	1.40	18.66	5.18	94.74	-	
Carpenters - Apprentice - 3	48.48	72.72	96.96	17,423	4,752	9,504	844,679	345,551	921,468	2,111,698	35.78	0.70	9.33	2.67	48.48	53.68	1.05	14.00	4.00	72.72	71.57	1.40	18.66	5.33	96.96	66.66	
Carpenters - Apprentice - 3	51.70	77.55	103.40	17,423	4,752	9,504	900,768	368,496	980,456	2,254,921	38.78	0.70	9.33	2.88	51.70	58.18	1.05	14.00	4.33	77.55	77.57	1.40	18.66	5.77	103.40	80.86	
Carpenters - Journeyman carpenter welder scaffolder	57.14	85.71	114.28	35,959	9,807	19,614	2,054,684	840,553	2,241,474	5,136,711	43.85	0.70	9.33	3.26	57.14	65.78	1.05	14.00	4.88	85.71	87.71	1.40	18.66	6.51	114.28	78.57	
Carpenters - Journeyman carpenter welder scaffolder	60.36	90.54	120.72	35,959	9,807	19,614	2,170,442	887,908	2,367,755	5,426,105	46.85	0.70	9.33	3.47	60.36	70.28	1.05	14.00	5.21	90.54	93.71	1.40	18.66	6.95	120.72	82.99	
Carpenters - Working foreperson	61.47	92.21	122.94	9,975	2,720	5,441	613,172	250,843	668,915	1,532,930	47.89	0.70	9.33	3.55	61.47	71.84	1.05	14.00	5.33	92.21	95.78	1.40	18.66	7.10	122.94	84.52	
Carpenters - Working foreperson	64.69	97.03	129.38	9,975	2,720	5,441	645,283	263,980	703,946	1,613,209	50.89	0.70	9.33	3.77	64.69	76.34	1.05	14.00	5.65	97.03	101.78	1.40	18.66	7.54	129.38	88.95	
Carpenters - General foreperson	65.80	98.70	131.60	18,420	5,024	10,047	1,212,035	495,832	1,322,220	3,030,086	51.93	0.70	9.33	3.84	65.80	77.89	1.05	14.00	5.77	98.70	103.85	1.40	18.66	7.69	131.60	90.48	
Carpenters - General foreperson	68.27	102.40	136.54	18,420	5,024	10,047	1,257,495	514,430	1,371,813	3,143,738	54.93	-	-	-	68.27	82.39	-	-	-	102.40	109.85	-	-	-	136.54	93.87	
Electricians - Journeyman	69.63	104.55	139.26	1,498	409	817	104,322	42,677	115,806	260,865	47.99	8.66	8.84	4.14	69.63	71.99	12.99	13.26	6.21	104.55	95.98	17.32	17.68	8.28	139.26	95.74	
Electricians - Journeyman	72.85	109.28	145.70	1,498	409	817	109,145	44,658	119,067	272,862	50.99	8.66	8.84	4.36	72.85	76.49	12.99	13.26	6.54	109.28	101.98	17.32	17.68	8.72	145.70	100.17	
Electricians - Journeyman	69.63	104.55	139.26	1,742	475	950	121,307	49,626	132,335	303,267	47.99	8.66	8.84	4.14	69.63	71.99	12.99	13.26	6.21	104.55	95.98	17.32	17.68	8.28	139.26	95.74	
Electricians - Journeyman	72.85	109.28	145.70	1,742	475	950	126,915	51,920	138,453	317,288	50.99	8.66	8.84	4.36	72.85	76.49	12.99	13.26	6.54	109.28	101.98	17.32	17.68	8.72	145.70	100.17	
Electricians - Journeyman	69.63	104.55	139.26	-	-	-	-	-	-	-	47.99	8.66	8.84	4.14	69.63	71.99	12.99	13.26	6.21	104.55	95.98	17.32	17.68	8.28	139.26	-	
Electricians - Journeyman	72.85	109.28	145.70	-	-	-	-	-	-	-	50.99	8.66	8.84	4.36	72.85	76.49	12.99	13.26	6.54	109.28	101.98	17.32	17.68	8.72	145.70	-	
Electricians - Journeyman	60.34	90.51	120.67	-	-	-	-	-	-	-	47.99	-	8.84	3.51	60.34	71.99	-	13.26	5.26	90.51	95.98	-	-	-	120.67	-	
Electricians - Journeyman	63.56	95.33	127.11	-	-	-	-	-	-	-	50.99	-	8.84	3.73	63.56	76.49	-	13.26	5.59	95.33	101.98	-	-	-	127.11	-	
Electricians - Apprentice - 3rd year	46.01	69.02	92.03	969	264	528	44,580	18,237	48,633	111,450	34.64	-	8.84	2.53	46.01	51.97	-	13.26	3.80	69.02	69.29	-	-	-	92.03	-	
Electricians - Apprentice - 3rd year	49.23	73.85	98.47	969	264	528	47,699	19,513	52,035	119,247	37.64	-	8.84	2.75	49.23	56.47	-	13.26	4.13	73.85	75.29	-	-	-	98.47	-	
Electricians - Journeyman	60.34	90.51	120.67	969	264	528	58,456	23,914	63,770	146,139	47.99	-	8.84	3.51	60.34	71.99	-	13.26	5.26	90.51	95.98	-	-	-	120.67	-	
Electricians - Journeyman	63.56	95.33	127.11	969	264	528	61,575	25,190	67,172	153,937	50.99	-	8.84	3.73	63.56	76.49	-	13.26	5.59	95.33	101.98	-	-	-	127.11	-	
Electricians - Non-working foreperson	65.11	97.67	130.22	323	88	176	21,021	8,600	22,932	52,553	52.44	-	8.84	3.83	65.11	78.66	-	13.26	5.75	97.67	104.88	-	-	-	130.22	-	
Electricians - Non-working foreperson	68.33	102.50	136.66	323	88	176	22,060	9,025	24,066	55,151	55.44	-	8.84	4.05	68.33	83.16	-	13.26	6.08	102.50	110.88	-	-	-	136.66	-	
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	48.17	67.76	90.34	12,183	3,323	6,645	550,350	225,143	600,182	1,375,875	32.21	0.40	10.18	2.38	48.17	48.31	0.60	15.27	3.57	67.76	64.42	0.80	20.36	4.76	90.34	62.11	
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	48.39	72.59	96.78	12,183	3,323	6,645	589,570	241,188	641,167	1,473,935	35.21	0.40	10.18	2.60	48.39	52.01	0.60	15.27	3.80	72.59	69.24	0.80	20.36	5.00	96.78	66.54	
Ironworkers - Structural Apprentice - 1st 1,000 hrs	46.15	69.23	92.31	4,336	1,183	2,365	200,115	81,865	218,307	500,288	33.12	0.40	10.18	2.45	46.15	49.69	0.60	15.27	3.67	69.23	66.25	0.80	20.36	4.90	92.31	63.46	
Ironworkers - Structural Apprentice - 1st 1,000 hrs	49.37	74.06	98.74	4,336	1,183	2,365	214,073	87,575	233,534	535,183	36.12	0.40	10.18	2.67	49.37	54.19	0.60	15.27	4.00	74.06	72.25	0.80	20.36	5.34	98.74	67.80	
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	53.97	80.96	107.95	7,450	2,032	4,064	402,111	164,500	438,667	1,005,279	40.14	0.40	10.18	2.98	53.97	60.62	0.60	15.27	4.47	80.96	80.83	0.80	20.36	5.96	107.95	74.21	
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	57.19	85.79	114.39	7,450	2,032	4,064	426,994	174,311	464,830	1,065,236	43.41	0.40	10.18	3.20	57.19	65.12	0.60	15.27	4.80	85.79	86.83	0.80	20.36	6.40	114.39	78.64	
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	55.24	82.85	110.47	4,523	1,234	2,467	249,824	102,201	272,535	624,560	41.99	0.40	10.18	3.07	55.24	62.38	0.60	15.27	4.60	82.85	83.17	0.80	20.36	6.14	110.47	75.95	
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	58.45	87.68	116.91	4,523	1,234	2,467	264,384	108,157	288,419	660,960	44.59	0.40	10.18	3.29	58.45	66.88	0.60	15.27	4.93	87.68	89.17	0.80	20.36	6.57	116.91	80.37	
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	61.57	92.39	123.19	4,523	1,234	2,467	280,566	114,866	303,599	720,566	48.15	0.40	10.18	3.51	61.57	70.52	0.60	15.27	5.15	92.39	97.64	0.80	20.36	7.02	123.19	85.98	
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	58.45	87.68	116.91	1,742	475	950	101,835	41,660	111,092	254,586	44.59	0.40	10.18	3.29	58.45	66.88	0.60	15.27	4.93	87.68	89.17	0.80	20.36	6.57	116.91	80.37	
Ironworkers - Rebar Journeyman	58.38	87.56	116.75	14,900	4,064	8,127	869,783	355,820	948,554	2,174,457	44.51	0.40	10.18	3.28	58.38	66.77	0.60	15.27	4.92	87.56	89.03	0.80	20.36	6.56	116.75	80.27	
Ironworkers - Rebar Journeyman	61.59	92.39	123.19	14,900	4,064	8,127	917,748	375,442	1,001,180	2,294,370	47.51	0.40	10.18	3.58	61.59	71.27	0.60	15.27	5.25	92.39	95.03	0.80	20.36	7.00	123.19	84.69	
Ironworkers - Structural Journeyman	59.35	89.02	118.69	8,859	2,416	4,832	525,730	215,071	573,523	1,314,324	45.82	-	10.18	3.35	59.35	68.73	-	15.27	5.02	89.02	91.64	-	-	-	118.69	81.60	
Ironworkers - Structural Journeyman	62.57	93.85	125.13	8,859	2,416	4,832	545,247	226,737																			





1.2.5 Sheet 5) Rates and Hours May 2015 (4 of 6)

1	2	3 Estimated Hours (May 1, 2015 - April 30, 2016)			4 Bidder Schedule			5 Project Labour Agreement Rates (\$ per hour)								6 Govt Burdens or MERCS (\$ per hour)				7 Premium Costs (\$ per hour)			
		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
Rates Effective May 2015 - April 2016																							
Position and Level	Union	Total Hours	Shift (Day/Night)	% of Hrs Expected to Exceed Govt Burden Maximums	Shift Schedule	Start Day	Schedule Long Name	Base Rate	Vacation Pay	Holiday Pay	LCP Premium	H&W	Pension	Add-ons	Shift Premium	CPP	EI	Payroll Tax	WHSCC	Height	Heavy Lifting	Boom	Tool
Operating Engineers - Group 3 - JP	Operating Engineers	4,249	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.38	3.27	1.46	3.50	2.15	6.00	1.70	3.00	1.10	0.59	0.89	0.68	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	4,249	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.38	3.27	1.46	3.50	2.15	6.00	1.70	3.00	1.18	0.63	0.95	0.72	-	-	-	-
Operating Engineers - Group 1 - JP	Operating Engineers	55,599	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.79	3.40	1.51	3.50	2.15	6.00	1.70	3.00	1.14	0.61	0.92	0.70	-	-	-	-
Operating Engineers - Group 1 - JP	Operating Engineers	55,599	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.79	3.40	1.51	3.50	2.15	6.00	1.70	3.00	1.22	0.65	0.98	0.75	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	11,282	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.38	3.27	1.46	3.50	2.15	6.00	1.70	3.00	1.10	0.59	0.89	0.68	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	11,282	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.38	3.27	1.46	3.50	2.15	6.00	1.70	3.00	1.18	0.63	0.95	0.72	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	8,765	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.65	3.12	1.39	3.50	2.15	6.00	1.70	3.00	1.06	0.56	0.85	0.65	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	8,765	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.65	3.12	1.39	3.50	2.15	6.00	1.70	3.00	1.13	0.60	0.91	0.69	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	11,363	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.19	1.42	3.50	2.15	6.00	1.70	3.00	1.08	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	11,363	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.19	1.42	3.50	2.15	6.00	1.70	3.00	1.15	0.61	0.93	0.70	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	8,765	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.79	3.31	1.47	3.50	2.15	6.00	1.70	3.00	1.12	0.59	0.90	0.68	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	8,765	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.79	3.31	1.47	3.50	2.15	6.00	1.70	3.00	1.19	0.63	0.96	0.73	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	8,765	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	43.46	3.91	1.74	3.50	2.15	6.00	1.70	3.00	1.30	0.69	1.05	0.80	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	8,765	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	43.46	3.91	1.74	3.50	2.15	6.00	1.70	3.00	1.38	0.73	1.11	0.84	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.65	3.12	1.39	3.50	2.15	6.00	1.70	3.00	1.06	0.56	0.85	0.65	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.65	3.12	1.39	3.50	2.15	6.00	1.70	3.00	1.13	0.60	0.91	0.69	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	8,427	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.19	1.42	3.50	2.15	6.00	1.70	3.00	1.08	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	8,427	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.39	3.19	1.42	3.50	2.15	6.00	1.70	3.00	1.15	0.61	0.93	0.70	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	8,427	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.79	3.31	1.47	3.50	2.15	6.00	1.70	3.00	1.12	0.59	0.90	0.68	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	8,427	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.79	3.31	1.47	3.50	2.15	6.00	1.70	3.00	1.19	0.63	0.96	0.73	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	2,809	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	43.46	3.91	1.74	3.50	2.15	6.00	1.70	3.00	1.30	0.69	1.05	0.80	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	2,809	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	43.46	3.91	1.74	3.50	2.15	6.00	1.70	3.00	1.38	0.73	1.11	0.84	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	26,135	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	45.35	4.08	1.81	3.50	2.15	6.00	1.70	3.00	1.35	0.72	1.09	0.83	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	26,135	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	45.35	4.08	1.81	3.50	2.15	6.00	1.70	3.00	1.43	0.76	1.15	0.87	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	8,764	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	45.35	4.08	1.81	3.50	2.15	6.00	1.70	3.00	1.35	0.72	1.09	0.83	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	8,764	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	45.35	4.08	1.81	3.50	2.15	6.00	1.70	3.00	1.43	0.76	1.15	0.87	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	2,921	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.99	2.97	1.32	3.50	2.15	6.00	1.70	3.00	1.01	0.54	0.82	0.62	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	13,563	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.43	2.65	1.18	3.50	2.15	6.00	1.70	3.00	0.91	0.48	0.74	0.56	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	2,921	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.43	2.65	1.18	3.50	2.15	6.00	1.70	3.00	0.91	0.48	0.74	0.56	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	10,694	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.99	2.97	1.32	3.50	2.15	6.00	1.70	3.00	1.01	0.54	0.82	0.62	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	9,338	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.99	2.97	1.32	3.50	2.15	6.00	1.70	3.00	1.01	0.54	0.82	0.62	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	9,338	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.99	2.97	1.32	3.50	2.15	6.00	1.70	3.00	1.08	0.58	0.88	0.66	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	8,503	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.99	2.97	1.32	3.50	2.15	6.00	1.70	3.00	1.01	0.54	0.82	0.62	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	9,651	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.43	2.65	1.18	3.50	2.15	6.00	1.70	3.00	0.91	0.48	0.74	0.56	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	34,221	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.65	2.85	1.27	3.50	2.15	6.00	1.70	3.00	0.97	0.52	0.79	0.59	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	3,235	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.65	2.85	1.27	3.50	2.15	6.00	1.70	3.00	0.97	0.52	0.79	0.59	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	3,235	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.65	2.85	1.27	3.50	2.15	6.00	1.70	3.00	1.05	0.56	0.85	0.64	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	2,921	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	32.99	2.97	1.32	3.50	2.15	6.00	1.70	3.00	1.01	0.54	0.82	0.62	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	11,268	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.65	2.85	1.27	3.50	2.15	6.00	1.70	3.00	0.97	0.52	0.79	0.59	-	-	-	-
Painters - Group 2	Painters	1,572	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.35	3.84	1.15	3.50	2.35	5.00	1.70	3.00	1.16	0.62	0.94	0.71	-	-	-	-
Painters - Group 2	Painters	1,572	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.35	3.84	1.15	3.50	2.35	5.00	1.70	3.00	1.23	0.66	1.00	0.76	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	8,446	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.04	3.42	1.52	3.50	1.75	2.50	1.10	3.00	1.15	0.61	0.93	0.70	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	8,446	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.04	3.42	1.52	3.50	1.75	2.50	1.10	3.00	1.22	0.65	0.99	0.75	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	17,989	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.47	3.46	1.54	3.50	1.75	2.50	1.10	3.00	1.16	0.62	0.94	0.71	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	17,989	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.47	3.46	1.54	3.50	1.75	2.50	1.10	3.00	1.24	0.66	1.00	0.76	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	19,797	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.04	3.42	1.52	3.50	1.75	2.50	1.10	3.00	1.15	0.61	0.93	0.70	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	19,797	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.04	3.42	1.52	3.50	1.75	2.50	1.10	3.00	1.22	0.65	0.99	0.75	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	22,816	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.47	3.46	1.54	3.50	1.75	2.50	1.10	3.00	1.16	0.62						

1.2.5 Sheet 5) Rates and Hours May 2015 (5 of 6)

1	All-in Rates (\$ per hour)			Hours by Rate			Total Cost (\$)													45	46	47	48	49	50											
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43							44										
Position and Level	All-in Reg Time Rate	All-in 1.5 x OT Rate	All-in 2 x OT Rate	Reg Hrs	1.5 x OT Hours	2 x OT Hours	Reg Hrs Cost	1.5 x OT Hours Cost	2 x OT Hours Cost	Total Labour Cost	Wages	Premium	Union	OT Rate	Total 1.5 x OT Rate	Wages	Premium	Union	OT Rate	Total 2 x OT Rate	Avg Blended Rate (including OT based on selected schedule)															
Rates Effective May 2015 - April 2016																						Regular Time Labour Rate Summary (\$ per hour)			1.5 x OT Labour Rate Summary (\$ per hour)			2 x OT Labour Rate Summary (\$ per hour)								
Operating Engineers - Group 3 - JP	57.72	86.58	115.44	2,337	637	1,275	134,876	55,176	147,137	337,189	44.61	-	9.85	3.26	57.72	66.92	-	14.78	4.89	86.58	89.22	-	19.70	6.52	115.44	79.37										
Operating Engineers - Group 3 - JP	60.94	91.41	121.88	2,337	637	1,275	142,398	58,254	155,343	355,995	47.61	-	9.85	3.48	60.94	71.42	-	14.78	5.22	91.41	95.22	-	19.70	6.96	121.88	83.79										
Operating Engineers - Group 1 - JP	59.43	89.15	118.86	30,579	8,340	16,680	1,817,349	743,461	1,982,563	4,543,374	46.21	-	9.85	3.38	59.43	69.31	-	14.78	5.06	89.15	92.41	-	19.70	6.75	118.86	81.72										
Operating Engineers - Group 1 - JP	62.65	93.98	125.30	30,579	8,340	16,680	1,915,789	783,732	2,089,952	4,789,473	49.21	-	9.85	3.59	62.65	73.81	-	14.78	5.39	93.98	98.41	-	19.70	7.19	125.30	86.14										
Operating Engineers - Group 3 - JP	57.72	86.58	115.44	6,205	1,692	3,385	358,166	146,522	390,727	895,415	44.61	-	9.85	3.26	57.72	66.92	-	14.78	4.89	86.58	89.22	-	19.70	6.52	115.44	79.37										
Operating Engineers - Group 3 - JP	60.94	91.41	121.88	6,205	1,692	3,385	378,141	154,694	412,518	945,354	47.61	-	9.85	3.48	60.94	71.42	-	14.78	5.22	91.41	95.22	-	19.70	6.96	121.88	83.79										
Operating Engineers - Group 5 - JP	55.62	83.44	111.25	4,820	1,315	2,629	268,132	109,690	292,507	670,329	42.66	-	9.85	3.12	55.62	63.99	-	14.78	4.67	83.44	85.31	-	19.70	6.23	111.25	76.48										
Operating Engineers - Group 5 - JP	58.84	88.26	117.69	4,820	1,315	2,629	283,650	116,039	309,436	709,124	45.66	-	9.85	3.34	58.84	68.49	-	14.78	5.00	88.26	91.31	-	19.70	6.67	117.69	80.91										
Operating Engineers - Group 4 - JP	56.52	84.78	113.04	6,250	1,704	3,409	353,235	144,505	385,348	883,088	43.49	-	9.85	3.18	56.52	65.24	-	14.78	4.77	84.78	86.99	-	19.70	6.36	113.04	77.72										
Operating Engineers - Group 4 - JP	59.74	89.61	119.48	6,250	1,704	3,409	373,354	152,736	407,295	933,385	46.49	-	9.85	3.40	59.74	69.74	-	14.78	5.10	89.61	92.99	-	19.70	6.79	119.48	82.14										
Operating Engineers - Group 2 - JP	58.22	87.33	116.44	4,820	1,315	2,629	280,640	114,807	306,153	701,601	45.08	-	9.85	3.29	58.22	67.61	-	14.78	4.94	87.33	90.15	-	19.70	6.59	116.44	80.05										
Operating Engineers - Group 2 - JP	61.44	92.16	122.88	4,820	1,315	2,629	296,158	121,156	323,082	740,396	48.08	-	9.85	3.51	61.44	72.11	-	14.78	5.27	92.16	96.15	-	19.70	7.02	122.88	84.48										
Operating Engineers - Group 1 - Non-Working foreperson	66.30	99.46	132.61	4,820	1,315	2,629	319,620	130,754	348,677	799,051	52.61	-	9.85	3.84	66.30	78.92	-	14.78	5.77	99.46	105.22	-	19.70	7.69	132.61	91.17										
Operating Engineers - Group 1 - Non-Working foreperson	69.52	104.29	139.05	4,820	1,315	2,629	335,138	137,102	365,605	837,846	55.61	-	9.85	4.06	69.52	83.42	-	14.78	6.09	104.29	111.22	-	19.70	8.13	139.05	95.60										
Operating Engineers - Group 5 - JP	55.62	83.44	111.25	-	-	-	-	-	-	-	42.66	-	9.85	3.12	55.62	63.99	-	14.78	4.67	83.44	85.31	-	19.70	6.23	111.25	-										
Operating Engineers - Group 5 - JP	58.84	88.26	117.69	-	-	-	-	-	-	-	45.66	-	9.85	3.34	58.84	68.49	-	14.78	5.00	88.26	91.31	-	19.70	6.67	117.69	-										
Operating Engineers - Group 4 - JP	56.52	84.78	113.04	4,635	1,264	2,528	261,965	107,168	285,781	654,914	43.49	-	9.85	3.18	56.52	65.24	-	14.78	4.77	84.78	86.99	-	19.70	6.36	113.04	77.72										
Operating Engineers - Group 4 - JP	59.74	89.61	119.48	4,635	1,264	2,528	276,886	113,272	302,057	692,215	46.49	-	9.85	3.40	59.74	69.74	-	14.78	5.10	89.61	92.99	-	19.70	6.79	119.48	82.14										
Operating Engineers - Group 2 - JP	58.22	87.33	116.44	4,635	1,264	2,528	269,834	110,386	294,364	674,584	45.08	-	9.85	3.29	58.22	67.61	-	14.78	4.94	87.33	90.15	-	19.70	6.59	116.44	80.05										
Operating Engineers - Group 2 - JP	61.44	92.16	122.88	4,635	1,264	2,528	284,754	116,490	310,614	711,885	48.08	-	9.85	3.51	61.44	72.11	-	14.78	5.27	92.16	96.15	-	19.70	7.02	122.88	84.48										
Operating Engineers - Group 1 - Non-Working foreperson	66.30	99.46	132.61	1,545	421	843	102,438	41,906	111,750	256,094	52.61	-	9.85	3.84	66.30	78.92	-	14.78	5.77	99.46	105.22	-	19.70	7.69	132.61	91.17										
Operating Engineers - Group 1 - Non-Working foreperson	69.52	104.29	139.05	1,545	421	843	107,411	43,941	117,176	268,527	55.61	-	9.85	4.06	69.52	83.42	-	14.78	6.09	104.29	111.22	-	19.70	8.13	139.05	95.60										
Operating Engineers - Group 1 - General foreperson	68.60	102.89	137.19	14,374	3,920	7,841	986,016	403,370	1,075,654	2,465,040	54.75	-	9.85	4.00	68.60	82.12	-	14.78	6.00	102.89	109.49	-	19.70	8.00	137.19	94.32										
Operating Engineers - Group 1 - General foreperson	71.82	107.72	143.63	14,374	3,920	7,841	1,032,289	422,300	1,126,134	2,580,723	57.75	-	9.85	4.22	71.82	86.62	-	14.78	6.33	107.72	115.49	-	19.70	8.44	143.63	98.75										
Operating Engineers - Group 1 - General foreperson	68.60	102.89	137.19	4,820	1,315	2,629	330,646	135,264	360,705	826,616	54.75	-	9.85	4.00	68.60	82.12	-	14.78	6.00	102.89	109.49	-	19.70	8.00	137.19	94.32										
Operating Engineers - Group 1 - General foreperson	71.82	107.72	143.63	4,820	1,315	2,629	346,164	141,612	377,633	865,409	57.75	-	9.85	4.22	71.82	86.62	-	14.78	6.33	107.72	115.49	-	19.70	8.44	143.63	98.75										
Operating Engineers - Clerical Group 3	53.61	80.42	107.22	1,607	438	876	86,128	35,234	93,958	215,321	40.78	-	9.85	2.98	53.61	61.17	-	14.78	4.47	80.42	81.56	-	19.70	5.96	107.22	73.71										
Operating Engineers - Clerical Group 1	49.29	73.94	98.59	7,460	2,034	4,069	367,716	150,429	401,144	919,289	36.76	-	9.85	2.69	49.29	55.14	-	14.78	4.03	73.94	73.52	-	19.70	5.37	98.59	67.78										
Operating Engineers - Clerical Group 1	49.29	73.94	98.59	1,607	438	876	79,193	32,397	86,393	197,983	36.76	-	9.85	2.69	49.29	55.14	-	14.78	4.03	73.94	73.52	-	19.70	5.37	98.59	67.78										
Operating Engineers - Clerical Group 3	53.61	80.42	107.22	5,882	1,604	3,208	315,322	128,995	343,988	788,305	40.78	-	9.85	2.98	53.61	61.17	-	14.78	4.47	80.42	81.56	-	19.70	5.96	107.22	73.71										
Operating Engineers - Clerical Group 3	53.61	80.42	107.22	5,136	1,401	2,801	275,324	112,633	300,354	688,311	40.78	-	9.85	2.98	53.61	61.17	-	14.78	4.47	80.42	81.56	-	19.70	5.96	107.22	73.71										
Operating Engineers - Clerical Group 3	56.83	85.24	113.66	5,136	1,401	2,801	291,857	119,396	318,389	729,642	43.78	-	9.85	3.20	56.83	65.67	-	14.78	4.80	85.24	87.56	-	19.70	6.40	113.66	78.14										
Operating Engineers - Clerical Group 3	53.61	80.42	107.22	4,677	1,275	2,551	250,718	102,567	273,511	626,796	40.78	-	9.85	2.98	53.61	61.17	-	14.78	4.47	80.42	81.56	-	19.70	5.96	107.22	73.71										
Operating Engineers - Clerical Group 1	49.29	73.94	98.59	5,308	1,448	2,895	261,655	107,041	285,442	654,137	36.76	-	9.85	2.69	49.29	55.14	-	14.78	4.03	73.94	73.52	-	19.70	5.37	98.59	67.78										
Operating Engineers - Clerical Group 2	51.99	77.98	103.97	18,822	5,133	10,266	978,454	400,277	1,067,405	2,446,136	39.27	-	9.85	2.87	51.99	58.90	-	14.78	4.30	77.98	78.53	-	19.70	5.74	103.97	71.48										
Operating Engineers - Clerical Group 2	51.99	77.98	103.97	1,779	485	970	92,482	37,833	100,889	231,204	39.27	-	9.85	2.87	51.99	58.90	-	14.78	4.30	77.98	78.53	-	19.70	5.74	103.97	71.48										
Operating Engineers - Clerical Group 2	55.21	82.81	110.41	1,779	485	970	98,208	40,176	107,136	245,521	42.27	-	9.85	3.09	55.21	63.40	-	14.78	4.63	82.81	84.53	-	19.70	6.18	110.41	75.91										
Operating Engineers - Clerical Group 3	53.61	80.42	107.22	1,607	438	876	86,128	35,234	93,958	215,321	40.78	-	9.85	2.98	53.61	61.17	-	14.78	4.47	80.42	81.56	-	19.70	5.96	107.22	73.71										
Operating Engineers - Clerical Group 2	51.99	77.98	103.97	6,197	1,690	3,380	322,177	131,800	351,466	805,443	39.27	-	9.85	2.87	51.99	58.90	-	14.78	4.30	77.98	78.53	-	19.70													





1.2.6 Sheet 6) Rates and Hours May 2016 (1 of 6)

		Estimated Hours (May 1, 2016 - April 30, 2017)			Bidder Schedule			Project Labour Agreement Rates (\$ per hour)								Govt Burdens or MERCs (\$ per hour)				Premium Costs (\$ per hour)				
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
		Total Hours	Shift	% of Hrs Expected to Exceed Govt Burden Maximums	Shift Schedule	Start Day	Schedule Long Name	Base Rate	Vacation Pay	Holiday Pay	LCP Premium	H&W	Pension	Other Add-ons	Shift Premium	CPP	EI	Tax	WHSCC	Height	Heavy Lifting	Boom	Tool	
<b>Rates Effective May 2016 - April 2017</b>																								
Position and Level	Union																							
Carpenters - Apprentice - 1	Carpenters	25,305	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	24.65	2.47	0.74	3.50	1.80	6.00	1.53	3.00	0.79	0.42	0.64	0.48	0.44	-	-	-	-
Carpenters - Apprentice - 1	Carpenters	25,305	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	24.65	2.47	0.74	3.50	1.80	6.00	1.53	3.00	0.86	0.46	0.70	0.53	0.44	-	-	-	-
Carpenters - Apprentice - 2	Carpenters	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	26.55	2.65	0.80	3.50	1.80	6.00	1.53	3.00	0.84	0.45	0.68	0.51	0.44	-	-	-	-
Carpenters - Apprentice - 2	Carpenters	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	26.55	2.65	0.80	3.50	1.80	6.00	1.53	3.00	0.91	0.49	0.74	0.56	0.44	-	-	-	-
Carpenters - Apprentice - 3	Carpenters	18,840	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	30.34	3.03	0.91	3.50	1.80	6.00	1.53	3.00	0.95	0.50	0.76	0.58	0.44	-	-	-	-
Carpenters - Apprentice - 3	Carpenters	18,840	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	30.34	3.03	0.91	3.50	1.80	6.00	1.53	3.00	1.02	0.54	0.82	0.62	0.44	-	-	-	-
Carpenters - Journeyman carpenter welder scaffolder	Carpenters	40,377	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.92	3.79	1.14	3.50	1.80	6.00	1.53	3.00	1.16	0.62	0.94	0.71	0.44	-	-	-	-
Carpenters - Journeyman carpenter welder scaffolder	Carpenters	40,377	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.92	3.79	1.14	3.50	1.80	6.00	1.53	3.00	1.23	0.66	1.00	0.75	0.44	-	-	-	-
Carpenters - Working foreperson	Carpenters	11,185	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.72	4.17	1.25	3.50	1.80	6.00	1.53	3.00	1.26	0.67	1.02	0.77	0.44	-	-	-	-
Carpenters - Working foreperson	Carpenters	11,185	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.72	4.17	1.25	3.50	1.80	6.00	1.53	3.00	1.34	0.71	1.08	0.82	0.44	-	-	-	-
Carpenters - General foreperson	Carpenters	33,278	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	45.51	4.55	1.37	3.50	1.80	6.00	1.53	3.00	1.36	0.72	1.10	0.83	-	-	-	-	-
Carpenters - General foreperson	Carpenters	33,278	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	45.51	4.55	1.37	3.50	1.80	6.00	1.53	3.00	1.43	0.76	1.16	0.88	-	-	-	-	-
Electricians - Journeyman	Electricians	2,507	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.58	4.16	1.25	3.50	2.00	5.95	0.89	3.00	1.42	0.76	1.15	0.87	7.07	-	-	-	-
Electricians - Journeyman	Electricians	2,507	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.58	4.16	1.25	3.50	2.00	5.95	0.89	3.00	1.50	0.80	1.21	0.92	7.07	-	-	-	-
Electricians - Journeyman	Electricians	1,545	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.58	4.16	1.25	3.50	2.00	5.95	0.89	3.00	1.42	0.76	1.15	0.87	7.07	-	-	-	-
Electricians - Journeyman	Electricians	1,545	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.58	4.16	1.25	3.50	2.00	5.95	0.89	3.00	1.50	0.80	1.21	0.92	7.07	-	-	-	-
Electricians - Journeyman	Electricians	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.58	4.16	1.25	3.50	2.00	5.95	0.89	3.00	1.42	0.76	1.15	0.87	7.07	-	-	-	-
Electricians - Journeyman	Electricians	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.58	4.16	1.25	3.50	2.00	5.95	0.89	3.00	1.50	0.80	1.21	0.92	7.07	-	-	-	-
Electricians - Journeyman	Electricians	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.58	4.16	1.25	3.50	2.00	5.95	0.89	3.00	1.25	0.66	1.01	0.76	-	-	-	-	-
Electricians - Journeyman	Electricians	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.58	4.16	1.25	3.50	2.00	5.95	0.89	3.00	1.32	0.70	1.07	0.81	-	-	-	-	-
Electricians - Apprentice - 3rd year	Electricians	1,357	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.11	2.91	0.87	3.50	2.00	5.95	0.89	3.00	0.90	0.48	0.73	0.55	-	-	-	-	-
Electricians - Apprentice - 3rd year	Electricians	1,357	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	29.11	2.91	0.87	3.50	2.00	5.95	0.89	3.00	0.97	0.52	0.79	0.60	-	-	-	-	-
Electricians - Journeyman	Electricians	1,357	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.58	4.16	1.25	3.50	2.00	5.95	0.89	3.00	1.25	0.66	1.01	0.76	-	-	-	-	-
Electricians - Journeyman	Electricians	1,357	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.58	4.16	1.25	3.50	2.00	5.95	0.89	3.00	1.32	0.70	1.07	0.81	-	-	-	-	-
Electricians - Non-working foreperson	Electricians	452	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	45.74	4.57	1.37	3.50	2.00	5.95	0.89	3.00	1.27	0.73	1.10	0.84	-	-	-	-	-
Electricians - Non-working foreperson	Electricians	452	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	45.74	4.57	1.37	3.50	2.00	5.95	0.89	3.00	1.44	0.77	1.16	0.88	-	-	-	-	-
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	Ironworkers	6,149	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	26.84	2.68	0.94	3.50	1.81	6.00	2.37	3.00	0.85	0.45	0.68	0.52	0.25	-	-	-	-
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	Ironworkers	6,149	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	26.84	2.68	0.94	3.50	1.81	6.00	2.37	3.00	0.92	0.49	0.74	0.56	0.25	-	-	-	-
Ironworkers - Structural Apprentice - 1st 1,000 hrs	Ironworkers	1,639	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.64	2.76	0.97	3.50	1.81	6.00	2.37	3.00	0.87	0.46	0.70	0.53	0.25	-	-	-	-
Ironworkers - Structural Apprentice - 1st 1,000 hrs	Ironworkers	1,639	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	27.64	2.76	0.97	3.50	1.81	6.00	2.37	3.00	0.96	0.50	0.76	0.58	0.25	-	-	-	-
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	Ironworkers	3,808	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.50	3.45	1.21	3.50	1.81	6.00	2.37	3.00	1.06	0.56	0.86	0.65	0.25	-	-	-	-
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	Ironworkers	3,808	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	34.50	3.45	1.21	3.50	1.81	6.00	2.37	3.00	1.14	0.60	0.92	0.70	0.25	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	1,639	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.54	3.55	1.24	3.50	1.81	6.00	2.37	3.00	1.09	0.58	0.88	0.67	0.25	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	1,639	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.54	3.55	1.24	3.50	1.81	6.00	2.37	3.00	1.17	0.62	0.94	0.71	0.25	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	1,545	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.54	3.55	1.24	3.50	1.81	6.00	2.37	3.00	1.09	0.58	0.88	0.67	0.25	-	-	-	-
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	1,545	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.54	3.55	1.24	3.50	1.81	6.00	2.37	3.00	1.17	0.62	0.94	0.71	0.25	-	-	-	-
Ironworkers - Rebar Journeyman	Ironworkers	7,616	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.34	3.83	1.34	3.50	1.81	6.00	2.37	3.00	1.17	0.62	0.95	0.72	0.25	-	-	-	-
Ironworkers - Rebar Journeyman	Ironworkers	7,616	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.34	3.83	1.34	3.50	1.81	6.00	2.37	3.00	1.24	0.66	1.01	0.76	0.25	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	3,278	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.49	3.95	1.38	3.50	1.81	6.00	2.37	3.00	1.20	0.64	1.03	0.73	-	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	3,278	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.49	3.95	1.38	3.50	1.81	6.00	2.37	3.00	1.27	0.68	1.07	0.73	-	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.49	3.95	1.38	3.50	1.81	6.00	2.37	3.00	1.20	0.64	1.03	0.73	-	-	-	-	-
Ironworkers - Structural Journeyman	Ironworkers	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.49	3.95	1.38	3.50	1.81	6.00	2.37	3.00	1.27	0.68	1.03	0.78	-	-	-	-	-
Ironworkers - Rebar foreperson	Ironworkers	1,904	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	44.09	4.41	1.54	3.50	1.81	6.00	2.37	3.00	1.33	0.70	1.07	0.81	-	-	-	-	-
Ironworkers - Rebar foreperson	Ironworkers	1,904	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	44.09	4.41	1.54	3.50	1.81	6.00	2.37	3.00	1.40	0.74	1.13	0.86	-	-	-	-	-
Ironworkers - Structural foreperson	Ironworkers	820	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	45.41	4.54	1.59	3.50	1.81	6.00	2.37	3.00	1.36	0.72	1.10	0.83	-	-	-	-	-
Ironworkers - Structural foreperson	Ironworkers	820	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	45.41	4.54	1.59	3.50	1.81	6.00	2.37	3.00	1.44	0.76	1.16	0.88	-	-			

1.2.6 Sheet 6) Rates and Hours May 2016 (2 of 6)

Position and Level	All-In Rates (\$ per hour)			Hours by Rate			Total Cost (\$)			Regular Time Labour Rate Summary (\$ per hour)												1.5 x OT Labour Rate Summary (\$ per hour)			2 x OT Labour Rate Summary (\$ per hour)			Avg Blended Rate (including OT based on selected schedule)		
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
	All-in Reg Time Rate	All-in 1.5 x OT Rate	All-in 2 x OT Rate	Reg Hrs	1.5 x OT Hrs	2 x OT Hrs	Reg Hrs Cost	1.5 x OT Hrs Cost	2 x OT Hrs Cost	Total Labour Cost	Wages	Premium	Union	Add-ons	MERCS	Total Reg	Wages	Premium	Union	Add-ons	MERCS	Total 1.5 x OT Rate	Wages	Premium	Union	Add-ons	MERCS		Total 2 x OT	
<b>Rates Effective May 2016 - April 2017</b>																														
Carpenters - Apprentice - 1	43.45	65.17	86.89	13,918	3,796	7,592	604,670	247,365	659,641	1,511,676	31.36	0.44	9.33	2.32	43.45	47.03	0.66	14.00	3.48	66.17	62.71	0.88	18.66	4.65	86.29	59.74				
Carpenters - Apprentice - 2	46.67	70.00	93.33	13,918	3,796	7,592	649,474	265,694	708,517	1,623,686	34.36	0.44	9.33	2.54	46.67	51.53	0.66	14.00	3.81	70.00	68.71	0.88	18.66	5.08	93.33	64.16				
Carpenters - Apprentice - 3	45.75	68.62	91.49	-	-	-	-	-	-	-	33.50	0.44	9.33	2.48	45.75	50.25	0.66	14.00	3.72	68.62	67.00	0.88	18.66	4.96	91.49	-				
Carpenters - Working Foreperson	48.96	73.45	97.93	-	-	-	-	-	-	-	35.50	0.44	9.33	2.70	48.96	54.75	0.66	14.00	4.05	73.45	73.00	0.88	18.66	5.40	97.93	-				
Carpenters - Apprentice - 3	50.34	75.52	100.69	10,362	2,826	5,652	521,649	213,402	569,072	1,304,124	37.78	0.44	9.33	2.79	50.34	56.68	0.66	14.00	4.19	75.52	75.57	0.88	18.66	5.58	100.69	69.22				
Carpenters - Apprentice - 3	53.56	80.34	107.13	10,362	2,826	5,652	555,006	227,048	605,461	1,387,514	40.78	0.44	9.33	3.01	53.56	61.18	0.66	14.00	4.52	80.34	81.57	0.88	18.66	6.02	107.13	73.65				
Carpenters - Journeyman carpenter welder scaffolder	59.54	89.31	119.08	22,207	6,057	12,113	1,322,249	540,920	1,442,453	3,305,622	46.35	0.44	9.33	3.42	59.54	69.53	0.66	14.00	5.13	89.31	92.71	0.88	18.66	6.84	119.08	81.87				
Carpenters - Journeyman carpenter welder scaffolder	62.76	94.14	125.52	22,207	6,057	12,113	1,393,738	570,166	1,520,442	3,484,346	49.35	0.44	9.33	3.64	62.76	74.03	0.66	14.00	5.46	94.14	98.71	0.88	18.66	7.28	125.52	86.30				
Carpenters - Working Foreperson	64.14	96.21	128.28	6,152	1,678	3,356	394,571	161,415	430,441	986,428	50.64	0.44	9.33	3.73	64.14	75.96	0.66	14.00	5.60	96.21	101.28	0.88	18.66	7.46	128.28	88.19				
Carpenters - Working Foreperson	67.36	101.04	134.72	6,152	1,678	3,356	414,375	169,517	452,045	1,035,937	53.64	0.44	9.33	3.95	67.36	80.46	0.66	14.00	5.93	101.04	107.28	0.88	18.66	7.90	134.72	92.62				
Carpenters - General Foreperson	68.27	102.40	136.54	18,303	4,952	9,983	1,249,498	511,158	1,363,088	3,123,744	54.93	-	-	-	68.27	82.39	-	-	-	102.40	109.85	-	-	-	136.54	93.87				
Carpenters - General Foreperson	71.49	107.23	142.98	18,303	4,952	9,983	1,308,417	535,262	1,427,346	3,271,043	57.93	-	-	-	71.49	86.89	-	-	-	107.23	115.85	-	-	-	142.98	98.30				
Electricians - Journeyman	70.61	105.91	141.21	1,379	376	752	97,354	39,827	106,205	243,385	50.49	7.07	8.84	4.21	70.61	75.74	10.60	13.26	6.31	105.91	109.98	14.14	17.68	8.41	141.21	97.08				
Electricians - Journeyman	73.82	110.74	147.65	1,379	376	752	101,793	41,643	111,047	254,482	53.49	7.07	8.84	4.42	73.82	80.24	10.60	13.26	6.64	110.74	106.98	14.14	17.68	8.85	147.65	101.51				
Electricians - Journeyman	70.61	105.91	141.21	850	232	464	59,997	24,544	65,451	149,992	50.49	7.07	8.84	4.21	70.61	75.74	10.60	13.26	6.31	105.91	109.98	14.14	17.68	8.41	141.21	97.08				
Electricians - Journeyman	73.82	110.74	147.65	850	232	464	62,732	25,663	68,435	156,831	54.93	7.07	8.84	4.42	73.82	80.24	10.60	13.26	6.64	110.74	106.98	14.14	17.68	8.85	147.65	101.51				
Electricians - Journeyman	70.61	105.91	141.21	-	-	-	-	-	-	-	50.49	7.07	8.84	4.21	70.61	75.74	10.60	13.26	6.31	105.91	109.98	14.14	17.68	8.41	141.21	97.08				
Electricians - Journeyman	73.82	110.74	147.65	-	-	-	-	-	-	-	53.49	7.07	8.84	4.42	73.82	80.24	10.60	13.26	6.64	110.74	106.98	14.14	17.68	8.85	147.65	101.51				
Electricians - Journeyman	63.02	94.53	126.04	-	-	-	-	-	-	-	50.49	-	8.84	3.69	63.02	75.74	-	13.26	5.53	94.53	100.98	-	17.68	7.38	126.04	-				
Electricians - Journeyman	66.24	99.36	132.48	-	-	-	-	-	-	-	53.49	-	8.84	3.91	66.24	80.24	-	13.26	5.86	99.36	106.98	-	17.68	7.82	132.48	-				
Electricians - Apprentice - 3rd year	47.89	71.84	95.78	746	203	407	35,731	14,617	36,980	88,328	36.39	-	8.84	2.66	47.89	54.59	-	13.26	3.99	71.84	72.79	-	17.68	5.32	95.78	65.85				
Electricians - Apprentice - 3rd year	51.11	76.67	102.22	746	203	407	38,133	15,600	41,600	95,333	39.39	-	8.84	2.88	51.11	59.09	-	13.26	4.32	76.67	77.79	-	17.68	5.78	102.22	70.28				
Electricians - Journeyman	63.02	94.53	126.04	746	203	407	47,017	19,234	51,292	117,543	50.49	-	8.84	3.69	63.02	75.74	-	13.26	5.53	94.53	100.98	-	17.68	7.38	126.04	86.65				
Electricians - Journeyman	66.24	99.36	132.48	746	203	407	49,419	20,217	53,912	123,547	53.49	-	8.84	3.91	66.24	80.24	-	13.26	5.86	99.36	106.98	-	17.68	7.82	132.48	91.08				
Electricians - Non-working foreperson	68.06	102.09	136.12	249	68	136	16,920	6,922	18,458	42,300	55.19	-	8.84	4.03	68.06	82.78	-	13.26	6.05	102.09	110.38	-	17.68	8.06	136.12	93.58				
Electricians - Non-working foreperson	71.28	106.92	142.56	249	68	136	17,720	7,249	19,331	44,301	58.19	-	8.84	4.25	71.28	87.28	-	13.26	6.38	106.92	116.38	-	17.68	8.50	142.56	98.01				
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	46.89	70.33	93.78	3,382	922	1,845	158,577	64,872	172,999	396,443	33.96	0.25	10.18	2.50	46.89	50.94	0.38	15.27	3.75	70.33	67.92	0.50	20.36	5.00	93.78	64.47				
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	50.11	75.16	100.22	3,382	922	1,845	169,464	69,326	184,870	423,661	35.96	0.25	10.18	2.72	50.11	54.41	0.38	15.27	4.08	75.16	73.72	0.50	20.36	5.48	100.22	68.90				
Ironworkers - Structural Apprentice - 1st 1,000 hrs	47.87	71.80	95.74	901	246	492	43,139	17,648	47,061	107,847	34.87	0.25	10.18	2.57	47.87	52.31	0.38	15.27	3.85	71.80	69.75	0.50	20.36	5.13	95.74	65.82				
Ironworkers - Structural Apprentice - 1st 1,000 hrs	51.09	76.63	102.18	901	246	492	46,404	18,835	50,225	115,100	37.87	0.25	10.18	2.79	51.09	56.81	0.38	15.27	4.18	76.63	75.75	0.50	20.36	5.57	102.18	70.25				
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	56.23	84.34	112.46	2,094	571	1,142	117,764	48,176	128,470	294,409	42.66	0.25	10.18	3.14	56.23	63.99	0.38	15.27	4.70	84.34	83.33	0.50	20.36	6.27	112.46	77.31				
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	59.45	89.17	118.89	2,094	571	1,142	124,506	50,934	135,825	311,265	45.66	0.25	10.18	3.35	59.45	68.49	0.38	15.27	5.03	89.17	91.33	0.50	20.36	6.71	118.89	81.74				
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	57.49	86.23	114.98	901	246	492	51,807	21,194	56,517	130,518	43.84	0.25	10.18	3.22	57.49	65.76	0.38	15.27	4.83	86.23	87.67	0.50	20.36	6.44	114.98	79.05				
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	60.71	90.76	121.42	901	246	492	54,708	22,311	59,682	136,771	46.84	0.25	10.18	3.44	60.71	70.26	0.38	15.27	5.16	90.76	93.67	0.50	20.36	6.88	121.42	83.47				
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	57.49	86.23	114.98	850	232	464	48,851	19,984	53,292	122,127	43.84	0.25	10.18	3.22	57.49	65.76	0.38	15.27	4.83	86.23	87.67	0.50	20.36	6.44	114.98	79.05				
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	60.71	91.06	121.42	850	232	464	51,586	21,104	56,276	128,966	46.84	0.25	10.18	3.44	60.71	70.26	0.38	15.27	5.16	91.06	93.67	0.50	20.36	6.88	121.42	83.47				
Ironworkers - Rebar Journeyman	60.90	91.35	121.79	4,189	1,142	2,285	255,086	104,354	278,276	637,716	47.01	0.25	10.18	3.45	60.90	70.52	0.38	15.27	5.18	91.35	94.03	0.50	20.36	6.91	121.79	83.73				
Ironworkers - Rebar Journeyman	64.12	96.17	128.23	4,189	1,142	2,285	268,571	109,870	292,987	671,427	50.01	0.25	10.18	3.67	64.12	74.02	0.38	15.27	5.51	96.17	100.03	0.50	20.36	7.34	128.23	88.16				
Ironworkers - Structural Journeyman	62.03	93.04	124.06	1,809	492	983	111,816	45,743	121,981	279,540	48.32	-																		





1.2.6 Sheet 6) Rates and Hours May 2016 (4 of 6)

1	2	Estimated Hours (May 1, 2016 - April 30, 2017)			Bidder Schedule			Project Labour Agreement Rates (\$ per hour)								Govt Burdens or MERCs (\$ per hour)				Premium Costs (\$ per hour)			
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Rates Effective May 2016 - April 2017																							
Position and Level	Union	Total Hours	Shift (Day/Night)	% of Hrs Expected to Exceed Govt Burden Maximums	Shift Schedule	Start Day	Schedule Long Name	Base Rate	Vacation Pay	Holiday Pay	LCP Premium	H&W	Pension	Other Add-ons	Shift Premium	CPP	EI	Payroll Tax	WHSCC	Height	Heavy Lifting	Boom	Tool
Operating Engineers - Group 3 - JP	Operating Engineers	4,572	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.59	3.47	1.54	3.50	2.15	6.00	1.70	3.00	1.17	0.62	0.94	0.71	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	4,572	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.59	3.47	1.54	3.50	2.15	6.00	1.70	3.00	1.24	0.66	1.00	0.76	-	-	-	-
Operating Engineers - Group 1 - JP	Operating Engineers	19,146	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.00	3.60	1.60	3.50	2.15	6.00	1.70	3.00	1.21	0.64	0.97	0.74	-	-	-	-
Operating Engineers - Group 1 - JP	Operating Engineers	19,146	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.00	3.60	1.60	3.50	2.15	6.00	1.70	3.00	1.28	0.68	1.03	0.78	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	11,210	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.59	3.47	1.54	3.50	2.15	6.00	1.70	3.00	1.17	0.62	0.94	0.71	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	11,210	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.59	3.47	1.54	3.50	2.15	6.00	1.70	3.00	1.24	0.66	1.00	0.76	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	5,664	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.86	3.32	1.47	3.50	2.15	6.00	1.70	3.00	1.12	0.59	0.90	0.68	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	5,664	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.86	3.32	1.47	3.50	2.15	6.00	1.70	3.00	1.19	0.63	0.96	0.73	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	7,339	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.38	1.50	3.50	2.15	6.00	1.70	3.00	1.14	0.61	0.92	0.70	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	7,339	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.38	1.50	3.50	2.15	6.00	1.70	3.00	1.21	0.64	0.98	0.74	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	5,664	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.00	3.51	1.56	3.50	2.15	6.00	1.70	3.00	1.18	0.63	0.95	0.72	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	5,664	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.00	3.51	1.56	3.50	2.15	6.00	1.70	3.00	1.25	0.67	1.01	0.77	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	5,664	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	46.01	4.14	1.84	3.50	2.15	6.00	1.70	3.00	1.37	0.73	1.11	0.84	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	5,664	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	46.01	4.14	1.84	3.50	2.15	6.00	1.70	3.00	1.45	0.77	1.17	0.89	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.86	3.32	1.47	3.50	2.15	6.00	1.70	3.00	1.12	0.59	0.90	0.68	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.86	3.32	1.47	3.50	2.15	6.00	1.70	3.00	1.19	0.63	0.96	0.73	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	5,362	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.38	1.50	3.50	2.15	6.00	1.70	3.00	1.14	0.61	0.92	0.70	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	5,362	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	37.60	3.38	1.50	3.50	2.15	6.00	1.70	3.00	1.21	0.64	0.98	0.74	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	5,362	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.00	3.51	1.56	3.50	2.15	6.00	1.70	3.00	1.18	0.63	0.95	0.72	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	5,362	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.00	3.51	1.56	3.50	2.15	6.00	1.70	3.00	1.25	0.67	1.01	0.77	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	1,787	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	46.01	4.14	1.84	3.50	2.15	6.00	1.70	3.00	1.37	0.73	1.11	0.84	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	1,787	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	46.01	4.14	1.84	3.50	2.15	6.00	1.70	3.00	1.45	0.77	1.17	0.89	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	25,969	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	48.01	4.32	1.92	3.50	2.15	6.00	1.70	3.00	1.43	0.76	1.15	0.87	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	25,969	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	48.01	4.32	1.92	3.50	2.15	6.00	1.70	3.00	1.50	0.80	1.21	0.92	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	8,708	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	48.01	4.32	1.92	3.50	2.15	6.00	1.70	3.00	1.43	0.76	1.15	0.87	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	8,708	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	48.01	4.32	1.92	3.50	2.15	6.00	1.70	3.00	1.50	0.80	1.21	0.92	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	2,903	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.20	3.17	1.41	3.50	2.15	6.00	1.70	3.00	1.07	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	13,477	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.64	2.85	1.27	3.50	2.15	6.00	1.70	3.00	0.97	0.52	0.79	0.59	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	2,903	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.64	2.85	1.27	3.50	2.15	6.00	1.70	3.00	0.97	0.52	0.79	0.59	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	10,626	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.20	3.17	1.41	3.50	2.15	6.00	1.70	3.00	1.07	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	9,279	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.20	3.17	1.41	3.50	2.15	6.00	1.70	3.00	1.07	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	9,279	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.20	3.17	1.41	3.50	2.15	6.00	1.70	3.00	1.15	0.61	0.93	0.70	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	8,449	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.20	3.17	1.41	3.50	2.15	6.00	1.70	3.00	1.07	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	9,589	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	31.64	2.85	1.27	3.50	2.15	6.00	1.70	3.00	0.97	0.52	0.79	0.59	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	34,003	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.86	3.05	1.35	3.50	2.15	6.00	1.70	3.00	1.03	0.55	0.84	0.63	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	3,214	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.86	3.05	1.35	3.50	2.15	6.00	1.70	3.00	1.03	0.55	0.84	0.63	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	3,214	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.86	3.05	1.35	3.50	2.15	6.00	1.70	3.00	1.11	0.59	0.90	0.68	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	2,903	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.20	3.17	1.41	3.50	2.15	6.00	1.70	3.00	1.07	0.57	0.87	0.66	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	11,196	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.86	3.05	1.35	3.50	2.15	6.00	1.70	3.00	1.03	0.55	0.84	0.63	-	-	-	-
Painters - Group 2	Painters	966	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.47	4.05	1.21	3.50	2.45	5.00	1.70	3.00	1.22	0.65	0.98	0.75	-	-	-	-
Painters - Group 2	Painters	966	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.47	4.05	1.21	3.50	2.45	5.00	1.70	3.00	1.29	0.69	1.04	0.79	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	7,170	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.25	3.62	1.61	3.50	1.75	2.50	1.10	3.00	1.21	0.64	0.98	0.74	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	7,170	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.25	3.62	1.61	3.50	1.75	2.50	1.10	3.00	1.29	0.68	1.04	0.79	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	9,719	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.68	3.66	1.63	3.50	1.75	2.50	1.10	3.00	1.22	0.65	0.99	0.75	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	9,719	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.68	3.66	1.63	3.50	1.75	2.50	1.10	3.00	1.30	0.69	1.05	0.79	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	19,671	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.25	3.62	1.61	3.50	1.75	2.50	1.10	3.00	1.21	0.64	0.98	0.74	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	19,671	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.25	3.62	1.61	3.50	1.75	2.50	1.10	3.00	1.29	0.68	1.04	0.79	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	22,670	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.68	3.66	1.63	3.50	1.75	2.50	1.10	3.00	1.22	0.65	0.99	0.75	-	-	-	-
Teamsters																							



1.2.6 Sheet 6) Rates and Hours May 2016 (5 of 6)

1	All-in Rates (\$ per hour)			Hours by Rate				Total Cost (\$)				Regular Time Labour Rate Summary (\$ per hour)				1.5 x OT Labour Rate Summary (\$ per hour)				2 x OT Labour Rate Summary (\$ per hour)				Avg Blended Rate (including OT based on selected schedule)		
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47		48	49
Rates Effective May 2016 - April 2017	All-in Reg Time Rate	All-in 1.5 x OT Rate	All-in 2 x OT Rate	Reg Hrs	1.5 x OT Hours	2 x OT Hours	Reg Hrs Cost	1.5 x OT Hours Cost	2 x OT Hours Cost	Total Labour Cost	Wages	Premium \$	Union Add-ons	MERCs	Total Reg	Wages	Premium \$	Union Add-ons	MERCs	Total 1.5 x OT Rate	Wages	Premium \$	Union Add-ons	MERCs	Total 2 x OT Rate	
Operating Engineers - Group 3 - JP	60.40	90.61	120.81	2,514	686	1,371	151,875	62,131	165,682	379,688	47.11	-	9.85	3.44	60.40	70.67	-	14.78	5.16	90.61	94.22	-	19.70	6.88	120.81	83.06
Operating Engineers - Group 3 - JP	63.62	95.43	127.25	2,514	686	1,371	159,969	65,442	174,512	399,923	50.11	-	9.85	3.66	63.62	75.17	-	14.78	5.49	95.43	100.22	-	19.70	7.32	127.25	87.48
Operating Engineers - Group 1 - JP	62.11	93.17	124.23	10,530	2,872	5,744	654,058	267,569	713,518	1,635,144	48.71	-	9.85	3.56	62.11	73.06	-	14.78	5.34	93.17	97.41	-	19.70	7.12	124.23	85.41
Operating Engineers - Group 1 - JP	65.33	98.00	130.67	10,530	2,872	5,744	687,956	281,436	750,497	1,719,890	51.71	-	9.85	3.78	65.33	77.56	-	14.78	5.67	98.00	103.41	-	19.70	7.56	130.67	89.83
Operating Engineers - Group 3 - JP	60.40	90.61	120.81	6,166	1,682	3,363	372,420	152,354	406,277	931,051	47.11	-	9.85	3.44	60.40	70.67	-	14.78	5.16	90.61	94.22	-	19.70	6.88	120.81	83.06
Operating Engineers - Group 3 - JP	63.62	95.43	127.25	6,166	1,682	3,363	392,268	160,473	427,929	980,670	50.11	-	9.85	3.66	63.62	75.17	-	14.78	5.49	95.43	100.22	-	19.70	7.32	127.25	87.48
Operating Engineers - Group 5 - JP	58.31	87.46	116.61	3,115	850	1,699	181,635	74,305	198,148	454,088	45.16	-	9.85	3.30	58.31	67.74	-	14.78	4.95	87.46	90.31	-	19.70	6.60	116.61	80.17
Operating Engineers - Group 5 - JP	61.53	92.29	123.05	3,115	850	1,699	191,664	78,408	209,088	479,159	48.16	-	9.85	3.52	61.53	72.24	-	14.78	5.28	92.29	96.31	-	19.70	7.04	123.05	84.60
Operating Engineers - Group 4 - JP	59.20	88.81	118.41	4,036	1,101	2,202	238,956	97,755	260,679	597,389	45.99	-	9.85	3.36	59.20	68.99	-	14.78	5.04	88.81	91.99	-	19.70	6.72	118.41	81.40
Operating Engineers - Group 4 - JP	62.42	93.63	124.85	4,036	1,101	2,202	251,949	103,070	274,853	629,872	48.99	-	9.85	3.58	62.42	73.49	-	14.78	5.37	93.63	97.99	-	19.70	7.16	124.85	85.83
Operating Engineers - Group 2 - JP	60.90	91.35	121.80	3,115	850	1,699	189,719	77,612	206,966	474,297	47.58	-	9.85	3.48	60.90	71.36	-	14.78	5.21	91.35	95.15	-	19.70	6.95	121.80	83.74
Operating Engineers - Group 2 - JP	64.12	96.18	128.24	3,115	850	1,699	199,747	81,715	217,906	499,368	50.58	-	9.85	3.70	64.12	75.86	-	14.78	5.54	96.18	101.15	-	19.70	7.39	128.24	88.17
Operating Engineers - Group 1 - Non-Working foreperson	69.39	104.08	138.78	3,115	850	1,699	216,163	88,430	235,814	540,408	55.49	-	9.85	4.05	69.39	83.23	-	14.78	6.08	104.08	110.97	-	19.70	8.11	138.78	95.41
Operating Engineers - Group 1 - Non-Working foreperson	72.61	108.91	145.22	3,115	850	1,699	226,911	92,533	246,754	565,479	58.49	-	9.85	4.27	72.61	87.73	-	14.78	6.41	108.91	116.97	-	19.70	8.55	145.22	99.84
Operating Engineers - Group 5 - JP	58.31	87.46	116.61	-	-	-	-	-	-	-	45.16	-	9.85	3.30	58.31	67.74	-	14.78	4.95	87.46	90.31	-	19.70	6.60	116.61	-
Operating Engineers - Group 5 - JP	61.53	92.29	123.05	-	-	-	-	-	-	-	48.16	-	9.85	3.52	61.53	72.24	-	14.78	5.28	92.29	96.31	-	19.70	7.04	123.05	-
Operating Engineers - Group 4 - JP	59.20	88.81	118.41	2,949	804	1,608	174,581	71,419	190,452	436,452	45.99	-	9.85	3.36	59.20	68.99	-	14.78	5.04	88.81	91.99	-	19.70	6.72	118.41	81.40
Operating Engineers - Group 4 - JP	62.42	93.63	124.85	2,949	804	1,608	184,073	75,303	200,807	460,194	48.99	-	9.85	3.58	62.42	73.49	-	14.78	5.37	93.63	97.99	-	19.70	7.16	124.85	85.83
Operating Engineers - Group 2 - JP	60.90	91.35	121.80	2,949	804	1,608	179,587	73,467	195,913	448,966	47.58	-	9.85	3.48	60.90	71.36	-	14.78	5.21	91.35	95.15	-	19.70	6.95	121.80	83.74
Operating Engineers - Group 2 - JP	64.12	96.18	128.24	2,949	804	1,608	189,079	77,351	206,268	472,698	50.58	-	9.85	3.70	64.12	75.86	-	14.78	5.54	96.18	101.15	-	19.70	7.39	128.24	88.17
Operating Engineers - Group 1 - Non-Working foreperson	69.39	104.08	138.78	983	268	536	68,200	27,900	74,400	170,499	55.49	-	9.85	4.05	69.39	83.23	-	14.78	6.08	104.08	110.97	-	19.70	8.11	138.78	95.41
Operating Engineers - Group 1 - Non-Working foreperson	72.61	108.91	145.22	983	268	536	71,364	29,194	77,851	178,409	58.49	-	9.85	4.27	72.61	87.73	-	14.78	6.41	108.91	116.97	-	19.70	8.55	145.22	99.84
Operating Engineers - Group 1 - General foreperson	71.82	107.72	143.63	14,283	3,895	7,791	1,025,733	419,618	1,118,981	2,564,332	57.75	-	9.85	4.22	71.82	86.62	-	14.78	6.33	107.72	115.49	-	19.70	8.44	143.63	98.75
Operating Engineers - Group 1 - General foreperson	75.03	112.55	150.07	14,283	3,895	7,791	1,071,712	438,428	1,169,140	2,679,280	60.75	-	9.85	4.44	75.03	91.12	-	14.78	6.66	112.55	121.49	-	19.70	8.88	150.07	103.17
Operating Engineers - Group 1 - General foreperson	71.82	107.72	143.63	4,789	1,306	2,612	343,352	140,707	375,220	859,879	57.75	-	9.85	4.22	71.82	86.62	-	14.78	6.33	107.72	115.49	-	19.70	8.44	143.63	98.75
Operating Engineers - Group 1 - General foreperson	75.03	112.55	150.07	4,789	1,306	2,612	359,370	147,015	392,040	898,424	60.75	-	9.85	4.44	75.03	91.12	-	14.78	6.66	112.55	121.49	-	19.70	8.88	150.07	103.17
Operating Engineers - Clerical Group 3	56.29	84.44	112.59	1,597	435	871	89,881	36,769	98,052	224,702	43.28	-	9.85	3.16	56.29	64.92	-	14.78	4.74	84.44	86.56	-	19.70	6.32	112.59	77.40
Operating Engineers - Clerical Group 1	51.98	77.96	103.95	7,412	2,022	4,043	385,269	157,610	420,293	963,172	39.26	-	9.85	2.87	51.98	58.89	-	14.78	4.30	77.96	78.52	-	19.70	5.74	103.95	71.47
Operating Engineers - Clerical Group 1	51.98	77.96	103.95	1,597	435	871	82,988	33,950	90,533	207,471	39.26	-	9.85	2.87	51.98	58.89	-	14.78	4.30	77.96	78.52	-	19.70	5.74	103.95	71.47
Operating Engineers - Clerical Group 3	56.29	84.44	112.59	5,844	1,594	3,188	328,995	134,589	358,904	822,488	43.28	-	9.85	3.16	56.29	64.92	-	14.78	4.74	84.44	86.56	-	19.70	6.32	112.59	77.40
Operating Engineers - Clerical Group 3	56.29	84.44	112.59	5,103	1,392	2,784	287,275	117,521	313,391	718,187	43.28	-	9.85	3.16	56.29	64.92	-	14.78	4.74	84.44	86.56	-	19.70	6.32	112.59	77.40
Operating Engineers - Clerical Group 3	59.51	89.27	119.03	5,103	1,392	2,784	303,703	124,242	331,312	759,257	46.28	-	9.85	3.38	59.51	69.42	-	14.78	5.07	89.27	92.56	-	19.70	6.76	119.03	81.83
Operating Engineers - Clerical Group 3	56.29	84.44	112.59	4,647	1,267	2,535	261,592	107,015	285,373	653,981	43.28	-	9.85	3.16	56.29	64.92	-	14.78	4.74	84.44	86.56	-	19.70	6.32	112.59	77.40
Operating Engineers - Clerical Group 1	51.98	77.96	103.95	5,274	1,438	2,877	274,122	112,141	299,042	685,305	39.26	-	9.85	2.87	51.98	58.89	-	14.78	4.30	77.96	78.52	-	19.70	5.74	103.95	71.47
Operating Engineers - Clerical Group 2	54.67	82.00	109.34	18,702	5,100	10,201	1,022,391	418,251	1,115,336	2,555,978	41.77	-	9.85	3.05	54.67	62.65	-	14.78	4.58	82.00	83.53	-	19.70	6.10	109.34	75.17
Operating Engineers - Clerical Group 2	54.67	82.00	109.34	1,767	482	964	96,622	39,527	105,406	241,556	41.77	-	9.85	3.05	54.67	62.65	-	14.78	4.58	82.00	83.53	-	19.70	6.10	109.34	75.17
Operating Engineers - Clerical Group 2	57.89	86.83	115.78	1,767	482	964	102,312	41,855	111,613	255,780	44.77	-	9.85	3.27	57.89	67.15	-	14.78	4.91	86.83	89.53	-	19.70	6.54	115.78	79.60
Operating Engineers - Clerical Group 3	56.29	84.44	112.59	1,597	435	871	89,881	36,769	98,052	224,702	43.28	-	9.85	3.16	56.29	64.92	-	14.78	4.74	84.44	86.56	-	19.70	6.32	112.59	77.40
Operating Engineers - Clerical Group 2	54.67	82.00	109.34	6,158	1,679	3,359	336,638	137,715	367,241	841,594	41.77	-	9.85	3.05	54.67	62.65	-	14.78	4.58	82.00	83.53	-	19.70	6.10	109.34	







1.2.7 Sheet 7) Rates and Hours May 2017 (2 of 6)

Position and Level	All-in Rates (\$ per hour)			Hours by Rate			Total Cost (\$)			Regular Time Labour Rate Summary (\$ per hour)					1.5 x OT Labour Rate Summary (\$ per hour)					2 x OT Labour Rate Summary (\$ per hour)					Avg Blended Rate (including OT based on selected schedule)			
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		49	50	
	All-in Reg Time Rate	All-in 1.5 x OT Rate	All-in 2 x OT Rate	Reg Hrs	1.5 x OT Hours	2 x OT Hours	Reg Hrs Cost	1.5 x OT Hours Cost	2 x OT Hours Cost	Total Labour Cost	Wages	Premium %	Union Add-ons	MERCs	Total Reg Rate	Wages	Premium %	Union Add-ons	MERCs	Total 1.5 x OT Rate	Wages	Premium %	Union Add-ons	MERCs	Total 2 x OT Rate			
<b>Rates Effective May 2017 - April 2018</b>																												
Carpenters - Apprentice - 1	44.56	66.84	89.12	3,175	866	1,732	141,458	57,889	154,318	353,665	32.66	0.18	9.33	2.40	44.56	48.98	0.26	14.00	3.60	66.84	65.11	0.35	18.66	4.80	89.12	61.27		
Carpenters - Apprentice - 1	47.78	71.67	95.56	3,175	866	1,732	151,678	62,050	165,466	379,194	35.66	0.18	9.33	2.62	47.78	53.48	0.26	14.00	3.93	71.67	71.31	0.35	18.66	5.24	95.56	65.70		
Carpenters - Apprentice - 2	46.97	70.45	93.93	-	-	-	-	-	-	-	34.90	0.18	9.33	2.56	46.97	52.35	0.26	14.00	3.84	70.45	69.80	0.35	18.66	5.12	93.93	-		
Carpenters - Apprentice - 2	50.19	75.28	100.37	-	-	-	-	-	-	-	37.90	0.18	9.33	2.78	50.19	56.85	0.26	14.00	4.17	75.28	75.80	0.35	18.66	5.56	100.37	-		
Carpenters - Apprentice - 3	51.78	77.67	103.56	1,963	535	1,071	101,654	41,586	110,895	254,135	39.38	0.18	9.33	2.89	51.78	59.08	0.26	14.00	4.34	77.67	78.77	0.35	18.66	5.78	103.56	71.20		
Carpenters - Apprentice - 3	55.00	82.50	110.00	1,963	535	1,071	107,974	44,171	117,790	269,935	42.38	0.18	9.33	3.11	55.00	63.58	0.26	14.00	4.66	82.50	84.77	0.35	18.66	6.22	110.00	75.62		
Carpenters - Journeyman carpenter welder scaffolder	61.41	92.11	122.81	2,190	597	1,194	134,467	55,009	146,692	336,168	48.35	0.18	9.33	3.55	61.41	72.53	0.26	14.00	5.32	92.11	96.71	0.35	18.66	7.09	122.81	84.43		
Carpenters - Journeyman carpenter welder scaffolder	64.62	96.94	129.25	2,190	597	1,194	141,517	57,893	154,382	353,992	51.35	0.18	9.33	3.76	64.62	77.03	0.26	14.00	5.65	96.94	102.71	0.35	18.66	7.59	129.25	88.86		
Carpenters - Working foreperson	66.22	99.33	132.44	1,296	353	707	85,806	35,103	93,607	215,515	52.84	0.18	9.33	3.87	66.22	79.26	0.26	14.00	5.81	99.33	105.68	0.35	18.66	7.75	132.44	91.05		
Carpenters - Working foreperson	69.44	104.16	138.88	1,296	353	707	89,978	36,809	98,157	224,944	55.84	0.18	9.33	4.09	69.44	83.76	0.26	14.00	6.14	104.16	111.68	0.35	18.66	8.18	138.88	95.48		
Carpenters - General foreperson	70.84	106.27	141.69	10,875	2,966	5,932	770,460	315,188	840,502	1,926,149	67.33	-	9.33	4.19	70.84	85.99	-	14.00	6.28	106.27	114.65	-	18.66	8.38	141.69	97.41		
Carpenters - General foreperson	74.06	111.09	148.13	10,875	2,966	5,932	805,470	329,510	878,694	2,013,674	50.33	-	9.33	4.41	74.06	90.49	-	14.00	6.61	111.09	120.65	-	18.66	8.81	148.13	101.84		
Electricians - Journeyman	67.21	100.82	134.43	107	29	59	7,209	2,949	7,964	18,021	52.49	1.91	8.84	3.97	67.21	78.74	2.86	13.26	5.96	100.82	104.98	3.82	17.68	7.95	134.43	92.42		
Electricians - Journeyman	70.43	105.65	140.86	107	29	59	7,554	3,090	8,241	18,885	55.49	1.91	8.84	3.97	70.43	83.24	2.86	13.26	6.29	105.65	110.98	3.82	17.68	8.39	140.86	96.84		
Electricians - Journeyman	67.21	100.82	134.43	4	1	2	277	113	302	693	52.49	1.91	8.84	3.97	67.21	78.74	2.86	13.26	5.96	100.82	104.98	3.82	17.68	7.95	134.43	92.42		
Electricians - Journeyman	70.43	105.65	140.86	4	1	2	291	119	317	726	55.49	1.91	8.84	4.19	70.43	83.24	2.86	13.26	6.29	105.65	110.98	3.82	17.68	8.39	140.86	96.84		
Electricians - Journeyman	67.21	100.82	134.43	-	-	-	-	-	-	-	52.49	1.91	8.84	3.97	67.21	78.74	2.86	13.26	5.96	100.82	104.98	3.82	17.68	7.95	134.43	-		
Electricians - Journeyman	70.43	105.65	140.86	-	-	-	-	-	-	-	55.49	1.91	8.84	4.19	70.43	83.24	2.86	13.26	6.29	105.65	110.98	3.82	17.68	8.39	140.86	-		
Electricians - Journeyman	65.17	97.75	130.33	-	-	-	-	-	-	-	52.49	-	8.84	3.83	65.17	78.74	-	13.26	5.75	97.75	104.98	-	17.68	7.67	130.33	-		
Electricians - Journeyman	68.38	102.58	136.77	-	-	-	-	-	-	-	55.49	-	8.84	4.05	68.38	83.24	-	13.26	6.08	102.58	110.98	-	17.68	8.11	136.77	-		
Electricians - Apprentice - 3rd year	49.39	74.09	98.79	395	108	215	19,506	7,980	21,279	48,765	37.79	-	8.84	2.76	49.39	56.69	-	13.26	4.14	74.09	75.59	-	17.68	5.52	98.79	67.92		
Electricians - Apprentice - 3rd year	52.61	78.92	105.23	395	108	215	20,777	8,500	22,666	51,943	40.79	-	8.84	2.98	52.61	61.19	-	13.26	4.47	78.92	81.59	-	17.68	5.96	105.23	72.34		
Electricians - Journeyman	65.17	97.75	130.33	395	108	215	25,734	10,527	28,078	64,335	52.49	-	8.84	3.83	65.17	78.74	-	13.26	5.75	97.75	104.98	-	17.68	7.67	130.33	89.60		
Electricians - Journeyman	68.38	102.58	136.77	395	108	215	27,005	11,048	29,460	67,511	55.49	-	8.84	4.05	68.38	83.24	-	13.26	6.08	102.58	110.98	-	17.68	8.11	136.77	94.03		
Electricians - Non-working foreperson	70.43	105.65	140.85	132	36	72	9,276	3,795	10,120	23,191	57.39	-	8.84	4.19	70.43	86.08	-	13.26	6.29	105.63	114.78	-	17.68	8.39	140.85	96.83		
Electricians - Non-working foreperson	73.64	110.46	147.28	132	36	72	9,700	3,968	10,582	24,251	60.39	-	8.84	4.41	73.64	90.58	-	13.26	6.62	110.46	120.78	-	17.68	8.82	147.28	101.26		
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	48.23	72.35	96.46	406	111	221	19,564	8,003	21,342	48,909	35.36	0.10	10.18	2.59	48.23	53.04	0.15	15.27	3.89	72.35	70.72	0.20	20.36	5.18	96.46	66.32		
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	51.45	77.17	102.90	406	111	221	20,869	8,537	22,767	52,173	38.36	0.10	10.18	2.81	51.45	57.54	0.15	15.27	4.21	77.17	76.72	0.20	20.36	5.62	102.90	70.74		
Ironworkers - Structural Apprentice - 1st 1,000 hrs	49.21	73.82	98.42	-	-	-	-	-	-	-	36.27	0.10	10.18	2.66	49.21	54.41	0.15	15.27	3.99	73.82	72.55	0.20	20.36	5.31	98.42	-		
Ironworkers - Structural Apprentice - 1st 1,000 hrs	52.43	78.65	104.86	-	-	-	-	-	-	-	39.27	0.10	10.18	2.88	52.43	58.91	0.15	15.27	4.31	78.65	78.55	0.20	20.36	5.75	104.86	-		
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	58.00	87.06	116.00	220	60	120	12,760	5,220	13,900	31,899	44.46	0.10	10.18	3.26	58.00	66.69	0.15	15.27	4.88	87.06	88.93	0.20	20.36	6.51	116.00	79.75		
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	61.22	91.83	122.44	220	60	120	13,468	5,510	14,692	33,670	47.46	0.10	10.18	3.47	61.22	71.19	0.15	15.27	5.21	91.83	94.93	0.20	20.36	6.95	122.44	84.17		
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	59.26	88.89	118.52	-	-	-	-	-	-	-	45.64	0.10	10.18	3.34	59.26	68.46	0.15	15.27	5.01	88.89	91.27	0.20	20.36	6.68	118.52	-		
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	62.48	93.72	124.96	-	-	-	-	-	-	-	48.64	0.10	10.18	3.56	62.48	72.96	0.15	15.27	5.34	93.72	97.27	0.20	20.36	7.12	124.96	-		
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	59.26	88.89	118.52	4	1	2	244	100	267	611	45.64	0.10	10.18	3.34	59.26	68.46	0.15	15.27	5.01	88.89	91.27	0.20	20.36	6.68	118.52	81.48		
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	62.48	93.72	124.96	4	1	2	258	105	281	644	48.64	0.10	10.18	3.56	62.48	72.96	0.15	15.27	5.34	93.72	97.27	0.20	20.36	7.12	124.96	85.91		
Ironworkers - Rebar Journeyman	62.88	94.32	125.76	440	120	240	27,668	11,319	30,184	69,171	49.01	0.10	10.18	3.59	62.88	73.52	0.15	15.27	5.38	94.32	98.03	0.20	20.36	7.18	125.76	86.46		
Ironworkers - Rebar Journeyman	66.10	99.15	132.20	440	120	240	29,085	11,898	31,729	72,712	52.01	0.10	10.18	3.81	66.10	78.02	0.15	15.27	5.71	99.15	104.03	0.20	20.36	7.61	132.20	90.89		
Ironworkers - Structural Journeyman	64.18	96.26	128.35	-	-	-	-	-	-	-	50.32	-	10.18	3.68	64.18	75.48	-	15.27	5.51	96.26	100.64	-	20.36	7.35	128.35	-		
Ironworkers - Structural Journeyman	67.39	101.09	134.79	-	-	-	-	-	-	-	53.32	-	10.18	3.90	67.39	79.98	-	15.27	5.84	101.09	106.64	-	20.36					



1.2.7 Sheet 7) Rates and Hours May 2017 (4 of 6)

1	2	Estimated Hours (May 1, 2017 - April 30, 2018)			Bidder Schedule			Project Labour Agreement Rates (\$ per hour)								Govt Burdens or MERCs (\$ per hour)				Premium Costs (\$ per hour)			
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Rates Effective May 2017 - April 2018																							
Position and Level	Union	Total Hours	Shift (Day/Night)	% of Hrs Expected to Exceed Govt Burden Maximums	Shift Schedule	Start Day	Schedule Long Name	Base Rate	Vacation Pay	Holiday Pay	LCP Premium	H&W	Pension	Other Add-ons	Shift Premium	CPP	EI	Payroll Tax	WHSCC	Height	Heavy Lifting	Boom	Tall
Operating Engineers - Group 3 - JP	Operating Engineers	786	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.36	3.63	1.61	3.50	2.15	6.00	1.70	3.00	1.22	0.65	0.98	0.74	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	786	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.36	3.63	1.61	3.50	2.15	6.00	1.70	3.00	1.29	0.69	1.04	0.79	-	-	-	-
Operating Engineers - Group 1 - JP	Operating Engineers	6,424	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.77	3.76	1.67	3.50	2.15	6.00	1.70	3.00	1.25	0.67	1.01	0.77	-	-	-	-
Operating Engineers - Group 1 - JP	Operating Engineers	6,424	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	41.77	3.76	1.67	3.50	2.15	6.00	1.70	3.00	1.33	0.71	1.07	0.81	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	6,661	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.36	3.63	1.61	3.50	2.15	6.00	1.70	3.00	1.22	0.65	0.98	0.74	-	-	-	-
Operating Engineers - Group 3 - JP	Operating Engineers	6,661	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.36	3.63	1.61	3.50	2.15	6.00	1.70	3.00	1.29	0.69	1.04	0.79	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	1,851	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.63	3.48	1.55	3.50	2.15	6.00	1.70	3.00	1.17	0.62	0.94	0.71	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	1,851	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.63	3.48	1.55	3.50	2.15	6.00	1.70	3.00	1.24	0.66	1.00	0.76	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	2,373	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.54	1.57	3.50	2.15	6.00	1.70	3.00	1.19	0.63	0.96	0.73	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	2,373	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.54	1.57	3.50	2.15	6.00	1.70	3.00	1.26	0.67	1.02	0.77	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	1,851	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.77	3.67	1.63	3.50	2.15	6.00	1.70	3.00	1.23	0.65	0.99	0.75	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	1,851	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.77	3.67	1.63	3.50	2.15	6.00	1.70	3.00	1.30	0.69	1.05	0.80	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	1,851	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	48.04	4.32	1.92	3.50	2.15	6.00	1.70	3.00	1.43	0.76	1.16	0.88	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	1,851	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	48.04	4.32	1.92	3.50	2.15	6.00	1.70	3.00	1.50	0.80	1.22	0.92	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	-	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.63	3.48	1.55	3.50	2.15	6.00	1.70	3.00	1.17	0.62	0.94	0.71	-	-	-	-
Operating Engineers - Group 5 - JP	Operating Engineers	-	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	38.63	3.48	1.55	3.50	2.15	6.00	1.70	3.00	1.24	0.66	1.00	0.76	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	2,716	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.54	1.57	3.50	2.15	6.00	1.70	3.00	1.19	0.63	0.96	0.73	-	-	-	-
Operating Engineers - Group 4 - JP	Operating Engineers	2,716	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	39.37	3.54	1.57	3.50	2.15	6.00	1.70	3.00	1.26	0.67	1.02	0.77	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	2,716	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.77	3.67	1.63	3.50	2.15	6.00	1.70	3.00	1.23	0.65	0.99	0.75	-	-	-	-
Operating Engineers - Group 2 - JP	Operating Engineers	2,716	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	40.77	3.67	1.63	3.50	2.15	6.00	1.70	3.00	1.30	0.69	1.05	0.80	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	906	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	48.04	4.32	1.92	3.50	2.15	6.00	1.70	3.00	1.43	0.76	1.16	0.88	-	-	-	-
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	906	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	48.04	4.32	1.92	3.50	2.15	6.00	1.70	3.00	1.50	0.80	1.22	0.92	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	15,431	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	50.13	4.51	2.01	3.50	2.15	6.00	1.70	3.00	1.49	0.79	1.20	0.91	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	15,431	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	50.13	4.51	2.01	3.50	2.15	6.00	1.70	3.00	1.56	0.83	1.26	0.96	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	5,175	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	50.13	4.51	2.01	3.50	2.15	6.00	1.70	3.00	1.49	0.79	1.20	0.91	-	-	-	-
Operating Engineers - Group 1 - General foreperson	Operating Engineers	5,175	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	50.13	4.51	2.01	3.50	2.15	6.00	1.70	3.00	1.56	0.83	1.26	0.96	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	1,725	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.97	3.33	1.48	3.50	2.15	6.00	1.70	3.00	1.12	0.60	0.91	0.69	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	8,008	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.41	3.01	1.34	3.50	2.15	6.00	1.70	3.00	1.02	0.54	0.83	0.63	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	1,725	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.41	3.01	1.34	3.50	2.15	6.00	1.70	3.00	1.02	0.54	0.83	0.63	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	6,314	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.97	3.33	1.48	3.50	2.15	6.00	1.70	3.00	1.12	0.60	0.91	0.69	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	5,513	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.97	3.33	1.48	3.50	2.15	6.00	1.70	3.00	1.12	0.60	0.91	0.69	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	5,513	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.97	3.33	1.48	3.50	2.15	6.00	1.70	3.00	1.19	0.64	0.97	0.73	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	5,020	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.97	3.33	1.48	3.50	2.15	6.00	1.70	3.00	1.12	0.60	0.91	0.69	-	-	-	-
Operating Engineers - Clerical Group 1	Operating Engineers	5,698	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	33.41	3.01	1.34	3.50	2.15	6.00	1.70	3.00	1.02	0.54	0.83	0.63	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	20,205	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.63	3.21	1.43	3.50	2.15	6.00	1.70	3.00	1.08	0.58	0.88	0.66	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	1,910	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.63	3.21	1.43	3.50	2.15	6.00	1.70	3.00	1.08	0.58	0.88	0.66	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	1,910	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.63	3.21	1.43	3.50	2.15	6.00	1.70	3.00	1.16	0.62	0.94	0.71	-	-	-	-
Operating Engineers - Clerical Group 3	Operating Engineers	1,725	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	36.97	3.33	1.48	3.50	2.15	6.00	1.70	3.00	1.12	0.60	0.91	0.69	-	-	-	-
Operating Engineers - Clerical Group 2	Operating Engineers	6,653	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	35.63	3.21	1.43	3.50	2.15	6.00	1.70	3.00	1.08	0.58	0.88	0.66	-	-	-	-
Painters - Group 2	Painters	846	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.16	4.22	1.26	3.50	2.55	5.00	1.70	3.00	1.27	0.67	1.02	0.77	-	-	-	-
Painters - Group 2	Painters	846	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.16	4.22	1.26	3.50	2.55	5.00	1.70	3.00	1.34	0.71	1.08	0.82	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	3,642	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.02	3.78	1.68	3.50	1.75	2.50	1.10	3.00	1.26	0.67	1.02	0.77	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	3,642	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.02	3.78	1.68	3.50	1.75	2.50	1.10	3.00	1.34	0.71	1.08	0.82	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	5,905	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.45	3.82	1.70	3.50	1.75	2.50	1.10	3.00	1.27	0.68	1.03	0.78	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	5,905	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.45	3.82	1.70	3.50	1.75	2.50	1.10	3.00	1.35	0.72	1.09	0.83	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	11,689	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.02	3.78	1.68	3.50	1.75	2.50	1.10	3.00	1.26	0.67	1.02	0.77	-	-	-	-
Teamsters - Group 3 teamster	Teamsters	11,689	Night	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.02	3.78	1.68	3.50	1.75	2.50	1.10	3.00	1.34	0.71	1.08	0.82	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	13,471	Day	50%	Sched F (20 and 10)	Tues	Sched F (20 and 10) - Tues	42.45	3.82	1.70	3.50	1.75	2.50	1.10	3.00	1.27	0.68	1.03	0.78	-	-	-	-
Teamsters - Group 1 teamster	Teamsters	13,471	Night	50%	Sched F (																		

1.2.7 Sheet 7) Rates and Hours May 2017 (5 of 6)

1	All-in Rates (\$ per hour)			Hours by Rate			Total Cost (\$)				Regular Time Labour Rate Summary (\$ per hour)				1.5 x OT Labour Rate Summary (\$ per hour)				2 x OT Labour Rate Summary (\$ per hour)				Avg Blended Rate (Including OT based on selected schedule)			
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46		47	48	49
Position and Level	All-in Reg Time Rate	All-in 1.5 x OT Rate	All-in 2 x OT Rate	Reg Hrs	1.5 x OT Hours	2 x OT Hours	Reg Hrs Cost	1.5 x OT Hours Cost	2 x OT Hours Cost	Total Labour Cost	Wages	Premium	Union	MERCs	Total Reg Rate	Wages	Premium	Union	MERCs	Total 1.5 x OT Rate	Wages	Premium	Union	MERCs	Total 2 x OT Rate	
<b>Rates Effective May 2017 - April 2018</b>																										
Operating Engineers - Group 3 - JP	62.55	93.83	125.10	432	118	236	27,023	11,055	29,480	67,558	49.11	-	9.85	3.59	62.55	73.67	-	14.78	5.38	93.83	98.22	-	19.70	7.18	125.10	86.01
Operating Engineers - Group 3 - JP	65.77	98.65	131.54	432	118	236	28,414	11,624	30,997	71,035	52.11	-	9.85	3.81	65.77	78.17	-	14.78	5.71	98.65	104.22	-	19.70	7.61	131.54	90.43
Operating Engineers - Group 1 - JP	64.26	96.39	128.52	3,533	964	1,927	227,042	92,881	247,683	567,606	50.71	-	9.85	3.70	64.26	76.06	-	14.78	5.56	96.39	101.41	-	19.70	7.41	128.52	88.36
Operating Engineers - Group 1 - JP	67.48	101.22	134.96	3,533	964	1,927	238,416	97,534	260,091	596,041	53.71	-	9.85	3.92	67.48	80.56	-	14.78	5.89	101.22	107.41	-	19.70	7.85	134.96	92.78
Operating Engineers - Group 3 - JP	62.55	93.83	125.10	3,664	999	1,998	229,155	93,745	249,587	572,888	49.11	-	9.85	3.59	62.55	73.67	-	14.78	5.38	93.83	98.22	-	19.70	7.18	125.10	86.01
Operating Engineers - Group 3 - JP	65.77	98.65	131.54	3,664	999	1,998	240,949	98,570	262,853	602,372	52.11	-	9.85	3.81	65.77	78.17	-	14.78	5.71	98.65	104.22	-	19.70	7.61	131.54	90.43
Operating Engineers - Group 3 - JP	60.45	90.68	120.90	1,018	278	555	61,543	25,177	67,138	153,859	47.16	-	9.85	3.45	60.45	70.74	-	14.78	5.17	90.68	94.31	-	19.70	6.89	120.90	83.12
Operating Engineers - Group 5 - JP	63.67	95.51	127.34	1,018	278	555	64,821	26,518	70,714	162,052	50.16	-	9.85	3.66	63.67	75.24	-	14.78	5.50	95.51	100.31	-	19.70	7.33	127.34	87.55
Operating Engineers - Group 4 - JP	61.35	92.02	122.70	1,305	356	712	80,054	32,749	87,331	200,134	47.99	-	9.85	3.51	61.35	71.99	-	14.78	5.26	92.02	95.99	-	19.70	7.01	122.70	84.36
Operating Engineers - Group 4 - JP	64.57	96.85	129.14	1,305	356	712	84,254	34,468	91,914	210,635	50.99	-	9.85	3.73	64.57	76.49	-	14.78	5.59	96.85	101.99	-	19.70	7.45	129.14	88.78
Operating Engineers - Group 2 - JP	63.05	94.57	126.09	1,018	278	555	64,185	26,258	70,020	160,463	49.58	-	9.85	3.62	63.05	74.36	-	14.78	5.43	94.57	99.15	-	19.70	7.24	126.09	86.69
Operating Engineers - Group 2 - JP	66.27	99.40	132.53	1,018	278	555	67,462	27,598	73,955	168,656	52.58	-	9.85	3.84	66.27	78.86	-	14.78	5.76	99.40	105.15	-	19.70	7.68	132.53	91.12
Operating Engineers - Group 1 - Non-Working foreperson	71.86	107.79	143.72	1,018	278	555	73,155	29,927	79,805	182,887	57.79	-	9.85	4.22	71.86	86.68	-	14.78	6.33	107.79	115.57	-	19.70	8.44	143.72	98.80
Operating Engineers - Group 1 - Non-Working foreperson	75.08	112.62	150.15	1,018	278	555	76,432	31,268	83,381	191,080	60.79	-	9.85	4.44	75.08	91.18	-	14.78	6.66	112.62	121.57	-	19.70	8.88	150.15	103.23
Operating Engineers - Group 5 - JP	60.45	90.68	120.90	-	-	-	-	-	-	-	47.16	-	9.85	3.45	60.45	70.74	-	14.78	5.17	90.68	94.31	-	19.70	6.89	120.90	-
Operating Engineers - Group 5 - JP	63.67	95.51	127.34	-	-	-	-	-	-	-	50.16	-	9.85	3.66	63.67	75.24	-	14.78	5.50	95.51	100.31	-	19.70	7.33	127.34	-
Operating Engineers - Group 4 - JP	61.35	92.02	122.70	1,494	407	815	91,644	37,491	99,975	229,110	47.99	-	9.85	3.51	61.35	71.99	-	14.78	5.26	92.02	95.99	-	19.70	7.01	122.70	84.36
Operating Engineers - Group 4 - JP	64.57	96.85	129.14	1,494	407	815	96,453	39,458	105,221	241,132	50.99	-	9.85	3.73	64.57	76.49	-	14.78	5.59	96.85	101.99	-	19.70	7.45	129.14	88.78
Operating Engineers - Group 2 - JP	63.05	94.57	126.09	1,494	407	815	94,180	38,528	102,742	235,450	49.58	-	9.85	3.62	63.05	74.36	-	14.78	5.43	94.57	99.15	-	19.70	7.24	126.09	86.69
Operating Engineers - Group 2 - JP	66.27	99.40	132.53	1,494	407	815	98,989	40,495	107,988	247,472	52.58	-	9.85	3.84	66.27	78.86	-	14.78	5.76	99.40	105.15	-	19.70	7.68	132.53	91.12
Operating Engineers - Group 1 - Non-Working foreperson	71.86	107.79	143.72	1,494	407	815	75,787	30,040	89,467	209,467	57.79	-	9.85	4.22	71.86	86.68	-	14.78	6.33	107.79	115.57	-	19.70	8.44	143.72	98.80
Operating Engineers - Group 1 - Non-Working foreperson	75.08	112.62	150.15	1,494	407	815	79,390	32,296	109,789	250,390	60.79	-	9.85	4.44	75.08	91.18	-	14.78	6.66	112.62	121.57	-	19.70	8.88	150.15	103.23
Operating Engineers - Group 1 - General foreperson	74.39	111.59	148.78	8,487	2,315	4,629	631,356	258,282	688,752	1,578,390	60.15	-	9.85	4.39	74.39	90.22	-	14.78	6.59	111.59	120.29	-	19.70	8.79	148.78	102.29
Operating Engineers - Group 1 - General foreperson	77.61	116.41	155.22	8,487	2,315	4,629	658,677	269,459	718,557	1,646,694	63.15	-	9.85	4.61	77.61	94.72	-	14.78	6.92	116.41	126.29	-	19.70	9.23	155.22	106.71
Operating Engineers - Group 1 - General foreperson	74.39	111.59	148.78	2,846	776	1,552	211,714	86,610	230,960	529,284	60.15	-	9.85	4.39	74.39	90.22	-	14.78	6.59	111.59	120.29	-	19.70	8.79	148.78	102.29
Operating Engineers - Group 1 - General foreperson	77.61	116.41	155.22	2,846	776	1,552	220,875	90,358	240,955	552,188	63.15	-	9.85	4.61	77.61	94.72	-	14.78	6.92	116.41	126.29	-	19.70	9.23	155.22	106.71
Operating Engineers - Clerical Group 3	58.44	87.66	116.88	949	259	518	55,444	22,682	60,485	138,611	45.28	-	9.85	3.31	58.44	67.92	-	14.78	4.96	87.66	90.56	-	19.70	6.62	116.88	80.35
Operating Engineers - Clerical Group 1	54.12	81.18	108.25	4,404	1,201	2,402	238,378	97,518	260,049	595,945	41.26	-	9.85	3.01	54.12	61.89	-	14.78	4.52	81.18	82.52	-	19.70	6.03	108.25	74.42
Operating Engineers - Clerical Group 1	54.12	81.18	108.25	949	259	518	51,349	21,006	56,017	128,372	41.26	-	9.85	3.01	54.12	61.89	-	14.78	4.52	81.18	82.52	-	19.70	6.03	108.25	74.42
Operating Engineers - Clerical Group 3	58.44	87.66	116.88	3,473	947	1,894	202,943	83,022	221,392	507,357	45.28	-	9.85	3.31	58.44	67.92	-	14.78	4.96	87.66	90.56	-	19.70	6.62	116.88	80.35
Operating Engineers - Clerical Group 3	58.44	87.66	116.88	3,032	827	1,654	177,197	72,490	193,306	442,993	45.28	-	9.85	3.31	58.44	67.92	-	14.78	4.96	87.66	90.56	-	19.70	6.62	116.88	80.35
Operating Engineers - Clerical Group 3	61.66	92.49	123.32	3,032	827	1,654	186,958	76,483	203,954	467,395	48.28	-	9.85	3.53	61.66	72.42	-	14.78	5.29	92.49	96.56	-	19.70	7.05	123.32	84.78
Operating Engineers - Clerical Group 3	58.44	87.66	116.88	2,761	753	1,506	161,351	66,007	176,020	403,378	45.28	-	9.85	3.31	58.44	67.92	-	14.78	4.96	87.66	90.56	-	19.70	6.62	116.88	80.35
Operating Engineers - Clerical Group 1	54.12	81.18	108.25	3,134	855	1,709	169,615	69,388	185,035	424,038	41.26	-	9.85	3.01	54.12	61.89	-	14.78	4.52	81.18	82.52	-	19.70	6.03	108.25	74.42
Operating Engineers - Clerical Group 2	56.81	85.22	113.63	11,113	3,031	6,062	631,367	258,286	688,764	1,578,417	43.77	-	9.85	3.20	56.81	65.65	-	14.78	4.80	85.22	87.53	-	19.70	6.40	113.63	78.12
Operating Engineers - Clerical Group 2	56.81	85.22	113.63	1,050	286	573	59,668	24,410	65,093	149,170	43.77	-	9.85	3.20	56.81	65.65	-	14.78	4.80	85.22	87.53	-	19.70	6.40	113.63	78.12
Operating Engineers - Clerical Group 2	60.03	90.05	120.07	1,050	286	573	63,049	25,793	68,781	157,622	46.77	-	9.85	3.42	60.03	70.15	-	14.78	5.13	90.05	93.53	-	19.70	6.83	120.07	82.55
Operating Engineers - Clerical Group 3	58.44	87.66	116.88	949	259	518	55,444	22,682	60,485	138,611	45.28	-	9.85	3.31	58.44	67.92	-	14.78	4.96	87.66	90.56	-	19.70	6.62	116.88	80.35
Operating Engineers - Clerical Group 2	56.81	85.22	113.63	3,659	998	1,996	207,893	85,047	226,793	519,733	43.77	-	9.85	3.20	56.81	65.65	-	14.78	4.80	85.22	87.53	-	19.70	6.40	113.63	78.12
Painters - Group 2	64.12	96.18	128.24	465	127	254	29,836	12,206	32,548	74,589	51.14	-	9.25	3.74	64.12	76.70	-	13.88	5.60	96.18	102.27	-	18.50	7.47	128.24	88.17
Painters - Group 2	67.34	101.01	134.68	465	127	254	31,334	12,818	34,182	78,334	54.14	-	9.25	3.96	67.34	81.20	-	13.88	5.93							





1.2.8 Sheet: 8) Premiums

Union	Height (\$ per hour)							Height (% over base rate)			Heavy Lifting (Crane operators)					Boom Premium		Tool Premium	
	> 40 feet	40-100 feet	> 100 feet	> 50 feet	40-64 feet	65-89 feet	90-124 feet	>125 feet	15-30 metres	> 30 metres	225-300 tons	300-350 tons	350-400 tons	400-450 tons	450-500 tons	140 to 200 feet	> 200 feet		
Boilermakers																			
Bricklayers				1.00															
Carpenters	1.75																		
Electricians									10%	50%									
Elevator Constructors																			
Hotel and Restaurant																			
Insulators	1.00																		
Ironworkers	1.00																		
Labourers		1.00	1.50																
Linespersons																			
Millwrights																			
Operating Engineers											4.00	4.30	4.60	4.90	5.20	1.50	2.00	1.50	
Painters				0.75															
Plumbers and Pipefitters					0.50	0.60	0.70	50%											
Sheet Metal				1.00															
Teamsters																			
Null																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<b>Notes</b>																			
Bidder should refer to the Project Labour Agreement for clarifications.																			
All premiums are in dollars above the regular rate except those listed as percentages in Columns I through J.																			

1.2.9 Sheet: 9) Positions and Base Rates (1 of 4)

Long Title	Union	Level	May 2012 Rate	Adjustment from JP rate	May 2013 Rate	May 2014 Rate	May 2015 Rate	May 2016 Rate	May 2017 Rate
Null	Null	Null	\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -
Boilermakers - General foreperson	Boilermakers	General foreperson	\$ 34.98	\$ 4.15	\$ 36.77	\$ 39.00	\$ 40.78	\$ 43.02	\$ 44.80
Boilermakers - foreperson	Boilermakers	foreperson	\$ 33.88	\$ 3.05	\$ 35.67	\$ 37.90	\$ 39.68	\$ 41.92	\$ 43.70
Boilermakers - Assistant foreperson	Boilermakers	Assistant foreperson	\$ 32.53	\$ 1.70	\$ 34.32	\$ 36.55	\$ 38.33	\$ 40.57	\$ 42.35
Boilermakers - Journeyman	Boilermakers	Journeyman	\$ 30.83		\$ 32.62	\$ 34.85	\$ 36.63	\$ 38.87	\$ 40.65
Boilermakers - Helper	Boilermakers	Helper	\$ 23.12	75%	\$ 24.46	\$ 26.14	\$ 27.48	\$ 29.15	\$ 30.49
Boilermakers - Apprentice - Level 3	Boilermakers	Apprentice - Level 3	\$ 27.75	90%	\$ 29.35	\$ 31.36	\$ 32.97	\$ 34.98	\$ 36.59
Boilermakers - Apprentice - Level 2	Boilermakers	Apprentice - Level 2	\$ 23.12	75%	\$ 24.46	\$ 26.14	\$ 27.48	\$ 29.15	\$ 30.49
Boilermakers - Apprentice - Level 1	Boilermakers	Apprentice - Level 1	\$ 18.50	60%	\$ 19.57	\$ 20.91	\$ 21.98	\$ 23.32	\$ 24.39
Bricklayers - General foreperson	Bricklayers	General foreperson	\$ 39.40	120%	\$ 41.58	\$ 44.31	\$ 46.49	\$ 49.21	\$ 51.40
Bricklayers - foreperson	Bricklayers	foreperson	\$ 37.75	115%	\$ 39.85	\$ 42.46	\$ 44.55	\$ 47.16	\$ 49.25
Bricklayers - Journeyman - Group 1	Bricklayers	Journeyman - Group 1	\$ 32.83		\$ 34.65	\$ 36.92	\$ 38.74	\$ 41.01	\$ 42.83
Bricklayers - Journeyman - Group 2	Bricklayers	Journeyman - Group 2	\$ 29.42		\$ 31.24	\$ 33.51	\$ 35.33	\$ 37.60	\$ 39.42
Bricklayers - Journeyman - Group 3	Bricklayers	Journeyman - Group 3	\$ 31.19		\$ 33.01	\$ 35.28	\$ 37.10	\$ 39.37	\$ 41.19
Bricklayers - Apprentice - 1st 6 months	Bricklayers	Apprentice - 1st 6 months	\$ 18.38	56%	\$ 19.40	\$ 20.68	\$ 21.69	\$ 22.97	\$ 23.98
Bricklayers - Apprentice - 2nd 6 months	Bricklayers	Apprentice - 2nd 6 months	\$ 20.35	62%	\$ 21.48	\$ 22.89	\$ 24.02	\$ 25.43	\$ 26.55
Bricklayers - Apprentice - 3rd 6 months	Bricklayers	Apprentice - 3rd 6 months	\$ 22.32	68%	\$ 23.56	\$ 25.11	\$ 26.34	\$ 27.89	\$ 29.12
Bricklayers - Apprentice - 4th 6 months	Bricklayers	Apprentice - 4th 6 months	\$ 24.29	74%	\$ 25.64	\$ 27.32	\$ 28.67	\$ 30.35	\$ 31.69
Bricklayers - Apprentice - 5th 6 months	Bricklayers	Apprentice - 5th 6 months	\$ 26.26	80%	\$ 27.72	\$ 29.54	\$ 30.99	\$ 32.81	\$ 34.26
Bricklayers - Apprentice - 6th 6 months	Bricklayers	Apprentice - 6th 6 months	\$ 27.91	85%	\$ 29.45	\$ 31.38	\$ 32.93	\$ 34.86	\$ 36.41
Bricklayers - Apprentice - 7th 6 months	Bricklayers	Apprentice - 7th 6 months	\$ 29.55	90%	\$ 31.18	\$ 33.23	\$ 34.87	\$ 36.91	\$ 38.55
Bricklayers - Apprentice - 8th 6 months	Bricklayers	Apprentice - 8th 6 months	\$ 31.19	95%	\$ 32.92	\$ 35.07	\$ 36.80	\$ 38.96	\$ 40.69
Carpenters - General foreperson	Carpenters	General foreperson	\$ 35.95	120%	\$ 38.08	\$ 40.73	\$ 42.85	\$ 45.51	\$ 47.63
Carpenters - Non-working foreperson	Carpenters	Non-working foreperson	\$ 34.45	115%	\$ 36.49	\$ 39.03	\$ 41.07	\$ 43.61	\$ 45.65
Carpenters - Working foreperson	Carpenters	Working foreperson	\$ 32.96	110%	\$ 34.90	\$ 37.34	\$ 39.28	\$ 41.72	\$ 43.66
Carpenters - Journeyman carpenter welder scaffolder	Carpenters	Journeyman carpenter welder scaffolder	\$ 29.96		\$ 31.73	\$ 33.94	\$ 35.71	\$ 37.92	\$ 39.69
Carpenters - Helper	Carpenters	Helper	\$ 17.98	60%	\$ 19.04	\$ 20.37	\$ 21.43	\$ 22.75	\$ 23.82
Carpenters - Apprentice - 1	Carpenters	Apprentice - 1	\$ 19.47	65%	\$ 20.62	\$ 22.06	\$ 23.21	\$ 24.65	\$ 25.80
Carpenters - Apprentice - 2	Carpenters	Apprentice - 2	\$ 20.97	70%	\$ 22.21	\$ 23.76	\$ 25.00	\$ 26.55	\$ 27.79
Carpenters - Apprentice - 3	Carpenters	Apprentice - 3	\$ 23.97	80%	\$ 25.38	\$ 27.15	\$ 28.57	\$ 30.34	\$ 31.76
Carpenters - Apprentice - 4	Carpenters	Apprentice - 4	\$ 26.96	90%	\$ 28.56	\$ 30.55	\$ 32.14	\$ 34.13	\$ 35.73
Electricians - General foreperson	Electricians	General foreperson	\$ 38.66	115%	\$ 40.70	\$ 43.24	\$ 45.28	\$ 47.82	\$ 49.86
Electricians - Non-working foreperson	Electricians	Non-working foreperson	\$ 36.98	110%	\$ 38.93	\$ 41.36	\$ 43.31	\$ 45.74	\$ 47.69
Electricians - Working foreperson	Electricians	Working foreperson	\$ 35.30	105%	\$ 37.16	\$ 39.48	\$ 41.34	\$ 43.66	\$ 45.52
Electricians - Apprentice/Journeyman electrician welder/welder	Electricians	Apprentice/Journeyman electrician welder/welder	\$ 35.30	105%	\$ 37.16	\$ 39.48	\$ 41.34	\$ 43.66	\$ 45.52
Electricians - Journeyman	Electricians	Journeyman	\$ 33.62		\$ 35.39	\$ 37.60	\$ 39.37	\$ 41.58	\$ 43.35
Electricians - Apprentice - 1st year	Electricians	Apprentice - 1st year	\$ 18.49	55%	\$ 19.46	\$ 20.68	\$ 21.65	\$ 22.87	\$ 23.84
Electricians - Apprentice - 2nd year	Electricians	Apprentice - 2nd year	\$ 21.85	65%	\$ 23.00	\$ 24.44	\$ 25.59	\$ 27.03	\$ 28.18
Electricians - Apprentice - 3rd year	Electricians	Apprentice - 3rd year	\$ 23.53	70%	\$ 24.77	\$ 26.32	\$ 27.56	\$ 29.11	\$ 30.35
Electricians - Apprentice - 4th year	Electricians	Apprentice - 4th year	\$ 26.90	80%	\$ 28.31	\$ 30.08	\$ 31.50	\$ 33.27	\$ 34.68
Hotel and Restaurant - Group 1 - Security	Hotel and Restaurant	Group 1 - Security	\$ 32.97		\$ 34.74	\$ 36.95	\$ 38.72	\$ 40.93	\$ 42.70
Hotel and Restaurant - Group 2 - Security	Hotel and Restaurant	Group 2 - Security	\$ 31.43		\$ 33.20	\$ 35.41	\$ 37.18	\$ 39.39	\$ 41.16
Hotel and Restaurant - Group 3 - Security	Hotel and Restaurant	Group 3 - Security	\$ 29.94		\$ 31.71	\$ 33.92	\$ 35.69	\$ 37.90	\$ 39.67
Hotel and Restaurant - Group 1	Hotel and Restaurant	Group 1	\$ 33.91		\$ 35.68	\$ 37.89	\$ 39.66	\$ 41.87	\$ 43.64
Hotel and Restaurant - Group 2	Hotel and Restaurant	Group 2	\$ 30.93		\$ 32.70	\$ 34.91	\$ 36.68	\$ 38.89	\$ 40.66
Hotel and Restaurant - Group 3	Hotel and Restaurant	Group 3	\$ 29.94		\$ 31.71	\$ 33.92	\$ 35.69	\$ 37.90	\$ 39.67
Hotel and Restaurant - Group 4	Hotel and Restaurant	Group 4	\$ 28.92		\$ 30.69	\$ 32.90	\$ 34.67	\$ 36.88	\$ 38.65
Hotel and Restaurant - Group 5	Hotel and Restaurant	Group 5	\$ 28.44		\$ 30.21	\$ 32.42	\$ 34.19	\$ 36.40	\$ 38.17
Hotel and Restaurant - Group 6	Hotel and Restaurant	Group 6	\$ 27.93		\$ 29.70	\$ 31.91	\$ 33.68	\$ 35.89	\$ 37.66
Hotel and Restaurant - Group 7	Hotel and Restaurant	Group 7	\$ 26.92		\$ 28.69	\$ 30.90	\$ 32.67	\$ 34.88	\$ 36.65

1.2.9 Sheet: 9) Positions and Base Rates (2 of 4)

Long Title	Union	Level	May 2012 Rate	Adjustment from JP rate	May 2013 Rate	May 2014 Rate	May 2015 Rate	May 2016 Rate	May 2017 Rate
Insulators - General foreperson	Insulators	General foreperson	\$ 36.17	\$ 4.50	\$ 37.94	\$ 40.15	\$ 41.92	\$ 44.13	\$ 45.90
Insulators - Non-working foreperson	Insulators	Non-working foreperson	\$ 33.67	\$ 2.00	\$ 35.44	\$ 37.65	\$ 39.42	\$ 41.63	\$ 43.40
Insulators - Working foreperson	Insulators	Working foreperson	\$ 32.92	\$ 1.25	\$ 34.69	\$ 36.90	\$ 38.67	\$ 40.88	\$ 42.65
Insulators - Journeyman mechanic	Insulators	Journeyman mechanic	\$ 31.67		\$ 33.44	\$ 35.65	\$ 37.42	\$ 39.63	\$ 41.40
Insulators - Apprentice - 1st year	Insulators	Apprentice - 1st year	\$ 19.00	60%	\$ 20.06	\$ 21.39	\$ 22.45	\$ 23.78	\$ 24.84
Insulators - Apprentice - 2nd year	Insulators	Apprentice - 2nd year	\$ 20.59	65%	\$ 21.74	\$ 23.17	\$ 24.32	\$ 25.76	\$ 26.91
Insulators - Apprentice - 3rd year	Insulators	Apprentice - 3rd year	\$ 23.75	75%	\$ 25.08	\$ 26.74	\$ 28.07	\$ 29.73	\$ 31.05
Insulators - Apprentice - 4th year	Insulators	Apprentice - 4th year	\$ 26.92	85%	\$ 28.42	\$ 30.30	\$ 31.81	\$ 33.69	\$ 35.19
Ironworkers - Structural General foreperson	Ironworkers	Structural General foreperson	\$ 38.93	120%	\$ 39.99	\$ 42.63	\$ 44.74	\$ 47.39	\$ 49.50
Ironworkers - Structural foreperson	Ironworkers	Structural foreperson	\$ 37.31	115%	\$ 38.32	\$ 40.85	\$ 42.88	\$ 45.41	\$ 47.44
Ironworkers - Structural Connectors	Ironworkers	Structural Connectors	\$ 33.35		\$ 34.23	\$ 36.43	\$ 38.20	\$ 40.40	\$ 42.16
Ironworkers - Structural Journeyman	Ironworkers	Structural Journeyman	\$ 32.44		\$ 33.32	\$ 35.52	\$ 37.29	\$ 39.49	\$ 41.25
Ironworkers - Structural Apprentice - 1st 1,000 hrs	Ironworkers	Structural Apprentice - 1st 1,000 hrs	\$ 22.71	70%	\$ 23.32	\$ 24.87	\$ 26.10	\$ 27.64	\$ 28.88
Ironworkers - Structural Apprentice - 2nd 1,000 hrs	Ironworkers	Structural Apprentice - 2nd 1,000 hrs	\$ 25.95	80%	\$ 26.66	\$ 28.42	\$ 29.83	\$ 31.59	\$ 33.00
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	Ironworkers	Structural Apprentice - 3rd 1,000 hrs	\$ 29.20	90%	\$ 29.99	\$ 31.97	\$ 33.56	\$ 35.54	\$ 37.13
Ironworkers - Structural Apprentice - 4th 1,000 hrs	Ironworkers	Structural Apprentice - 4th 1,000 hrs	\$ 30.82	95%	\$ 31.66	\$ 33.75	\$ 35.42	\$ 37.51	\$ 39.19
Ironworkers - Rebar General foreperson	Ironworkers	Rebar General foreperson	\$ 37.55	120%	\$ 38.61	\$ 41.25	\$ 43.36	\$ 46.01	\$ 48.12
Ironworkers - Rebar foreperson	Ironworkers	Rebar foreperson	\$ 35.98	115%	\$ 37.00	\$ 39.53	\$ 41.56	\$ 44.09	\$ 46.12
Ironworkers - Rebar Journeyman	Ironworkers	Rebar Journeyman	\$ 31.29		\$ 32.17	\$ 34.37	\$ 36.14	\$ 38.34	\$ 40.10
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	Ironworkers	Rebar Apprentice - 1st 1,000 hrs	\$ 21.90	70%	\$ 22.52	\$ 24.06	\$ 25.30	\$ 26.84	\$ 28.07
Ironworkers - Rebar Apprentice - 2nd 1,000 hrs	Ironworkers	Rebar Apprentice - 2nd 1,000 hrs	\$ 25.03	80%	\$ 25.74	\$ 27.50	\$ 28.91	\$ 30.67	\$ 32.08
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	Ironworkers	Rebar Apprentice - 3rd 1,000 hrs	\$ 28.16	90%	\$ 28.95	\$ 30.94	\$ 32.52	\$ 34.50	\$ 36.09
Ironworkers - Rebar Apprentice - 4th 1,000 hrs	Ironworkers	Rebar Apprentice - 4th 1,000 hrs	\$ 29.73	95%	\$ 30.56	\$ 32.66	\$ 34.33	\$ 36.42	\$ 38.10
Labourers - Class 1	Labourers	Class 1	\$ 28.21		\$ 29.98	\$ 32.19	\$ 33.96	\$ 36.17	\$ 37.94
Labourers - Class 2	Labourers	Class 2	\$ 28.25		\$ 30.02	\$ 32.23	\$ 34.00	\$ 36.21	\$ 37.98
Labourers - Class 3	Labourers	Class 3	\$ 28.31		\$ 30.08	\$ 32.29	\$ 34.06	\$ 36.27	\$ 38.04
Labourers - Class 4	Labourers	Class 4	\$ 28.36		\$ 30.13	\$ 32.34	\$ 34.11	\$ 36.32	\$ 38.09
Labourers - Class 5	Labourers	Class 5	\$ 28.41		\$ 30.18	\$ 32.39	\$ 34.16	\$ 36.37	\$ 38.14
Labourers - Class 6	Labourers	Class 6	\$ 28.46		\$ 30.23	\$ 32.44	\$ 34.21	\$ 36.42	\$ 38.19
Labourers - Class 7	Labourers	Class 7	\$ 28.64		\$ 30.41	\$ 32.62	\$ 34.39	\$ 36.60	\$ 38.37
Labourers - Class 8	Labourers	Class 8	\$ 28.71		\$ 30.48	\$ 32.69	\$ 34.46	\$ 36.67	\$ 38.44
Labourers - Class 9	Labourers	Class 9	\$ 29.16		\$ 30.93	\$ 33.14	\$ 34.91	\$ 37.12	\$ 38.89
Labourers - Class 10	Labourers	Class 10	\$ 29.26		\$ 31.03	\$ 33.24	\$ 35.01	\$ 37.22	\$ 38.99
Labourers - Class 11	Labourers	Class 11	\$ 34.26		\$ 36.03	\$ 38.24	\$ 40.01	\$ 42.22	\$ 43.99
Labourers - Class 1 - foreperson	Labourers	Class 1 - foreperson	\$ 29.96	\$ 1.75	\$ 31.73	\$ 33.94	\$ 35.71	\$ 37.92	\$ 39.69
Labourers - Class 2 - foreperson	Labourers	Class 2 - foreperson	\$ 30.00	\$ 1.75	\$ 31.77	\$ 33.98	\$ 35.75	\$ 37.96	\$ 39.73
Labourers - Class 3 - foreperson	Labourers	Class 3 - foreperson	\$ 30.06	\$ 1.75	\$ 31.83	\$ 34.04	\$ 35.81	\$ 38.02	\$ 39.79
Labourers - Class 4 - foreperson	Labourers	Class 4 - foreperson	\$ 30.11	\$ 1.75	\$ 31.88	\$ 34.09	\$ 35.86	\$ 38.07	\$ 39.84
Labourers - Class 5 - foreperson	Labourers	Class 5 - foreperson	\$ 30.16	\$ 1.75	\$ 31.93	\$ 34.14	\$ 35.91	\$ 38.12	\$ 39.89
Labourers - Class 6 - foreperson	Labourers	Class 6 - foreperson	\$ 30.21	\$ 1.75	\$ 31.98	\$ 34.19	\$ 35.96	\$ 38.17	\$ 39.94
Labourers - Class 7 - foreperson	Labourers	Class 7 - foreperson	\$ 30.39	\$ 1.75	\$ 32.16	\$ 34.37	\$ 36.14	\$ 38.35	\$ 40.12
Labourers - Class 8 - foreperson	Labourers	Class 8 - foreperson	\$ 30.46	\$ 1.75	\$ 32.23	\$ 34.44	\$ 36.21	\$ 38.42	\$ 40.19
Labourers - Class 9 - foreperson	Labourers	Class 9 - foreperson	\$ 30.91	\$ 1.75	\$ 32.68	\$ 34.89	\$ 36.66	\$ 38.87	\$ 40.64
Labourers - Class 10 - foreperson	Labourers	Class 10 - foreperson	\$ 31.01	\$ 1.75	\$ 32.78	\$ 34.99	\$ 36.76	\$ 38.97	\$ 40.74
Labourers - Class 11 - foreperson	Labourers	Class 11 - foreperson	\$ 36.01	\$ 1.75	\$ 37.78	\$ 39.99	\$ 41.76	\$ 43.97	\$ 45.74
Labourers - Class 1 - General foreperson	Labourers	Class 1 - General foreperson	\$ 30.71	\$ 2.50	\$ 32.48	\$ 34.69	\$ 36.46	\$ 38.67	\$ 40.44
Labourers - Class 2 - General foreperson	Labourers	Class 2 - General foreperson	\$ 30.75	\$ 2.50	\$ 32.52	\$ 34.73	\$ 36.50	\$ 38.71	\$ 40.48
Labourers - Class 3 - General foreperson	Labourers	Class 3 - General foreperson	\$ 30.81	\$ 2.50	\$ 32.58	\$ 34.79	\$ 36.56	\$ 38.77	\$ 40.54
Labourers - Class 4 - General foreperson	Labourers	Class 4 - General foreperson	\$ 30.86	\$ 2.50	\$ 32.63	\$ 34.84	\$ 36.61	\$ 38.82	\$ 40.59
Labourers - Class 5 - General foreperson	Labourers	Class 5 - General foreperson	\$ 30.91	\$ 2.50	\$ 32.68	\$ 34.89	\$ 36.66	\$ 38.87	\$ 40.64
Labourers - Class 6 - General foreperson	Labourers	Class 6 - General foreperson	\$ 30.96	\$ 2.50	\$ 32.73	\$ 34.94	\$ 36.71	\$ 38.92	\$ 40.69
Labourers - Class 7 - General foreperson	Labourers	Class 7 - General foreperson	\$ 31.14	\$ 2.50	\$ 32.91	\$ 35.12	\$ 36.89	\$ 39.10	\$ 40.87
Labourers - Class 8 - General foreperson	Labourers	Class 8 - General foreperson	\$ 31.21	\$ 2.50	\$ 32.98	\$ 35.19	\$ 36.96	\$ 39.17	\$ 40.94
Labourers - Class 9 - General foreperson	Labourers	Class 9 - General foreperson	\$ 31.66	\$ 2.50	\$ 33.43	\$ 35.64	\$ 37.41	\$ 39.62	\$ 41.39
Labourers - Class 10 - General foreperson	Labourers	Class 10 - General foreperson	\$ 31.76	\$ 2.50	\$ 33.53	\$ 35.74	\$ 37.51	\$ 39.72	\$ 41.49
Labourers - Class 11 - General foreperson	Labourers	Class 11 - General foreperson	\$ 36.76	\$ 2.50	\$ 38.53	\$ 40.74	\$ 42.51	\$ 44.72	\$ 46.49



1.2.9 Sheet: 9) Positions and Base Rates (3 of 4)

Long Title	Union	Level	May 2012 Rate	Adjustment from JP rate	May 2013 Rate	May 2014 Rate	May 2015 Rate	May 2016 Rate	May 2017 Rate
Linespersons - General foreperson	Linespersons	General foreperson	\$ 34.18	\$ 3.20	\$ 35.95	\$ 38.16	\$ 39.93	\$ 42.14	\$ 43.91
Linespersons - foreperson	Linespersons	foreperson	\$ 32.18	\$ 1.20	\$ 33.95	\$ 36.16	\$ 37.93	\$ 40.14	\$ 41.91
Linespersons - Lead linesman	Linespersons	Lead linesman	\$ 31.66	\$ 0.68	\$ 33.43	\$ 35.64	\$ 37.41	\$ 39.62	\$ 41.39
Linespersons - Utility worker	Linespersons	Utility worker	\$ 24.83		\$ 26.60	\$ 28.81	\$ 30.58	\$ 32.79	\$ 34.56
Linespersons - Mechanic	Linespersons	Mechanic	\$ 28.19		\$ 29.96	\$ 32.17	\$ 33.94	\$ 36.15	\$ 37.92
Linespersons - Operator + Driller/blaster	Linespersons	Operator + Driller/blaster	\$ 27.52		\$ 29.29	\$ 31.50	\$ 33.27	\$ 35.48	\$ 37.25
Linespersons - Full-time storekeeper	Linespersons	Full-time storekeeper	\$ 26.78		\$ 28.55	\$ 30.76	\$ 32.53	\$ 34.74	\$ 36.51
Linespersons - Instrument Person	Linespersons	Instrument Person	\$ 25.42		\$ 27.19	\$ 29.40	\$ 31.17	\$ 33.38	\$ 35.15
Linespersons - Journeyman linesman or splicer	Linespersons	Journeyman linesman or splicer	\$ 30.98		\$ 32.75	\$ 34.96	\$ 36.73	\$ 38.94	\$ 40.71
Linespersons - Apprentice - 1st year	Linespersons	Apprentice - 1st year	\$ 17.04	55%	\$ 18.01	\$ 19.23	\$ 20.20	\$ 21.42	\$ 22.39
Linespersons - Apprentice - 2nd year	Linespersons	Apprentice - 2nd year	\$ 20.14	65%	\$ 21.29	\$ 22.73	\$ 23.88	\$ 25.31	\$ 26.46
Linespersons - Apprentice - 3rd year	Linespersons	Apprentice - 3rd year	\$ 21.69	70%	\$ 22.92	\$ 24.47	\$ 25.71	\$ 27.26	\$ 28.50
Linespersons - Apprentice - 4th year	Linespersons	Apprentice - 4th year	\$ 24.78	80%	\$ 26.20	\$ 27.97	\$ 29.39	\$ 31.16	\$ 32.57
Millwrights - General foreperson	Millwrights	General foreperson	\$ 38.78	120%	\$ 40.53	\$ 42.70	\$ 44.44	\$ 46.62	\$ 48.36
Millwrights - Non-working foreperson	Millwrights	Non-working foreperson	\$ 37.17	115%	\$ 38.84	\$ 40.92	\$ 42.59	\$ 44.68	\$ 46.35
Millwrights - Working foreperson	Millwrights	Working foreperson	\$ 35.55	110%	\$ 37.15	\$ 39.14	\$ 40.74	\$ 42.74	\$ 44.33
Millwrights - Journeymen millwright, welder, machinist	Millwrights	Journeymen millwright, welder, machinist	\$ 32.32		\$ 33.77	\$ 35.59	\$ 37.04	\$ 38.85	\$ 40.30
Millwrights - Apprentice 0-1000 hrs	Millwrights	Apprentice 0-1000 hrs	\$ 19.39	60%	\$ 20.26	\$ 21.35	\$ 22.22	\$ 23.31	\$ 24.18
Millwrights - Apprentice 1001-2000 hrs	Millwrights	Apprentice 1001-2000 hrs	\$ 21.01	65%	\$ 21.95	\$ 23.13	\$ 24.07	\$ 25.25	\$ 26.20
Millwrights - Apprentice 2001-3000 hrs	Millwrights	Apprentice 2001-3000 hrs	\$ 22.62	70%	\$ 23.64	\$ 24.91	\$ 25.93	\$ 27.20	\$ 28.21
Millwrights - Apprentice 3001-4000 hrs	Millwrights	Apprentice 3001-4000 hrs	\$ 24.24	75%	\$ 25.33	\$ 26.69	\$ 27.78	\$ 29.14	\$ 30.23
Millwrights - Apprentice 4001-5000 hrs	Millwrights	Apprentice 4001-5000 hrs	\$ 25.86	80%	\$ 27.02	\$ 28.47	\$ 29.63	\$ 31.08	\$ 32.24
Millwrights - Apprentice 5001-6000 hrs	Millwrights	Apprentice 5001-6000 hrs	\$ 27.47	85%	\$ 28.71	\$ 30.25	\$ 31.48	\$ 33.02	\$ 34.26
Millwrights - Apprentice 6001-7000 hrs	Millwrights	Apprentice 6001-7000 hrs	\$ 29.09	90%	\$ 30.39	\$ 32.03	\$ 33.33	\$ 34.97	\$ 36.27
Millwrights - Apprentice 7001-8000 hrs	Millwrights	Apprentice 7001-8000 hrs	\$ 30.70	95%	\$ 32.08	\$ 33.81	\$ 35.18	\$ 36.91	\$ 38.29
Operating Engineers - Group 1 - JP	Operating Engineers	Group 1 - JP	\$ 32.04		\$ 33.81	\$ 36.02	\$ 37.79	\$ 40.00	\$ 41.77
Operating Engineers - Group 1 - General foreperson	Operating Engineers	Group 1 - General foreperson	\$ 38.45	120%	\$ 40.57	\$ 43.23	\$ 45.35	\$ 48.01	\$ 50.13
Operating Engineers - Group 1 - Non-Working foreperson	Operating Engineers	Group 1 - Non-Working foreperson	\$ 36.85	115%	\$ 38.88	\$ 41.43	\$ 43.46	\$ 46.01	\$ 48.04
Operating Engineers - Group 1 - Working foreperson	Operating Engineers	Group 1 - Working foreperson	\$ 36.85	115%	\$ 38.88	\$ 41.43	\$ 43.46	\$ 46.01	\$ 48.04
Operating Engineers - Group 2 - JP	Operating Engineers	Group 2 - JP	\$ 31.04		\$ 32.81	\$ 35.02	\$ 36.79	\$ 39.00	\$ 40.77
Operating Engineers - Group 2 - General foreperson	Operating Engineers	Group 2 - General foreperson	\$ 37.25	120%	\$ 39.37	\$ 42.03	\$ 44.15	\$ 46.81	\$ 48.93
Operating Engineers - Group 2 - Non-Working foreperson	Operating Engineers	Group 2 - Non-Working foreperson	\$ 35.70	115%	\$ 37.73	\$ 40.28	\$ 42.31	\$ 44.86	\$ 46.89
Operating Engineers - Group 2 - Working foreperson	Operating Engineers	Group 2 - Working foreperson	\$ 35.70	115%	\$ 37.73	\$ 40.28	\$ 42.31	\$ 44.86	\$ 46.89
Operating Engineers - Group 3 - JP	Operating Engineers	Group 3 - JP	\$ 30.63		\$ 32.40	\$ 34.61	\$ 36.38	\$ 38.59	\$ 40.36
Operating Engineers - Group 3 - General foreperson	Operating Engineers	Group 3 - General foreperson	\$ 36.76	120%	\$ 38.88	\$ 41.53	\$ 43.66	\$ 46.31	\$ 48.44
Operating Engineers - Group 3 - Non-Working foreperson	Operating Engineers	Group 3 - Non-Working foreperson	\$ 35.22	115%	\$ 37.26	\$ 39.80	\$ 41.84	\$ 44.38	\$ 46.42
Operating Engineers - Group 3 - Working foreperson	Operating Engineers	Group 3 - Working foreperson	\$ 35.22	115%	\$ 37.26	\$ 39.80	\$ 41.84	\$ 44.38	\$ 46.42
Operating Engineers - Group 4 - JP	Operating Engineers	Group 4 - JP	\$ 29.64		\$ 31.41	\$ 33.62	\$ 35.39	\$ 37.60	\$ 39.37
Operating Engineers - Group 4 - General foreperson	Operating Engineers	Group 4 - General foreperson	\$ 35.57	120%	\$ 37.69	\$ 40.35	\$ 42.47	\$ 45.13	\$ 47.25
Operating Engineers - Group 4 - Non-Working foreperson	Operating Engineers	Group 4 - Non-Working foreperson	\$ 34.09	115%	\$ 36.12	\$ 38.67	\$ 40.70	\$ 43.25	\$ 45.28
Operating Engineers - Group 4 - Working foreperson	Operating Engineers	Group 4 - Working foreperson	\$ 34.09	115%	\$ 36.12	\$ 38.67	\$ 40.70	\$ 43.25	\$ 45.28
Operating Engineers - Group 5 - JP	Operating Engineers	Group 5 - JP	\$ 28.90		\$ 30.67	\$ 32.88	\$ 34.65	\$ 36.86	\$ 38.63
Operating Engineers - Group 5 - General foreperson	Operating Engineers	Group 5 - General foreperson	\$ 34.68	120%	\$ 36.80	\$ 39.46	\$ 41.58	\$ 44.24	\$ 46.36
Operating Engineers - Group 5 - Non-Working foreperson	Operating Engineers	Group 5 - Non-Working foreperson	\$ 33.24	115%	\$ 35.27	\$ 37.81	\$ 39.85	\$ 42.39	\$ 44.43
Operating Engineers - Group 5 - Working foreperson	Operating Engineers	Group 5 - Working foreperson	\$ 33.24	115%	\$ 35.27	\$ 37.81	\$ 39.85	\$ 42.39	\$ 44.43
Operating Engineers - 1st period	Operating Engineers	1st period	\$ 18.62	60%	\$ 19.69	\$ 21.01	\$ 22.08	\$ 23.40	\$ 24.46
Operating Engineers - 2nd period	Operating Engineers	2nd period	\$ 20.18	65%	\$ 21.33	\$ 22.76	\$ 23.91	\$ 25.35	\$ 26.50
Operating Engineers - 3rd period	Operating Engineers	3rd period	\$ 21.73	70%	\$ 22.97	\$ 24.52	\$ 25.75	\$ 27.30	\$ 28.54
Operating Engineers - 4th period	Operating Engineers	4th period	\$ 23.28	75%	\$ 24.61	\$ 26.27	\$ 27.59	\$ 29.25	\$ 30.58
Operating Engineers - 5th period	Operating Engineers	5th period	\$ 24.83	80%	\$ 26.25	\$ 28.02	\$ 29.43	\$ 31.20	\$ 32.62
Operating Engineers - 6th period	Operating Engineers	6th period	\$ 27.94	90%	\$ 29.53	\$ 31.52	\$ 33.11	\$ 35.10	\$ 36.70
Operating Engineers - Clerical Group 1	Operating Engineers	Clerical Group 1	\$ 23.68		\$ 25.45	\$ 27.66	\$ 29.43	\$ 31.64	\$ 33.41
Operating Engineers - Clerical Group 2	Operating Engineers	Clerical Group 2	\$ 25.90		\$ 27.67	\$ 29.88	\$ 31.65	\$ 33.86	\$ 35.63
Operating Engineers - Clerical Group 3	Operating Engineers	Clerical Group 3	\$ 27.24		\$ 29.01	\$ 31.22	\$ 32.99	\$ 35.20	\$ 36.97

1.2.9 Sheet: 9) Positions and Base Rates (4 of 4)

Long Title	Union	Level	May 2012 Rate	Adjustment from JP rate	May 2013 Rate	May 2014 Rate	May 2015 Rate	May 2016 Rate	May 2017 Rate
Painters - General foreperson - Group 1	Painters	General foreperson - Group 1	\$ 32.85	\$ 2.50	\$ 34.04	\$ 36.17	\$ 37.85	\$ 39.97	\$ 41.66
Painters - Non-working foreperson - Group 1	Painters	Non-working foreperson - Group 1	\$ 32.35	\$ 2.00	\$ 33.54	\$ 35.67	\$ 37.35	\$ 39.47	\$ 41.16
Painters - Chargehands and working foremen - Group 1	Painters	Chargehands and working foremen - Group 1	\$ 31.85	\$ 1.50	\$ 33.04	\$ 35.17	\$ 36.85	\$ 38.97	\$ 40.66
Painters - Group 1	Painters	Group 1	\$ 30.35		\$ 31.54	\$ 33.67	\$ 35.35	\$ 37.47	\$ 39.16
Painters - General foreperson - Group 2	Painters	General foreperson - Group 2	\$ 35.85	\$ 2.50	\$ 37.04	\$ 39.17	\$ 40.85	\$ 42.97	\$ 44.66
Painters - Non-working foreperson - Group 2	Painters	Non-working foreperson - Group 2	\$ 35.35	\$ 2.00	\$ 36.54	\$ 38.67	\$ 40.35	\$ 42.47	\$ 44.16
Painters - Chargehands and working foremen - Group 2	Painters	Chargehands and working foremen - Group 2	\$ 34.85	\$ 1.50	\$ 36.04	\$ 38.17	\$ 39.85	\$ 41.97	\$ 43.66
Painters - Group 2	Painters	Group 2	\$ 33.35		\$ 34.54	\$ 36.67	\$ 38.35	\$ 40.47	\$ 42.16
Painters - Apprentice - 1st year	Painters	Apprentice - 1st year	\$ 18.21	60%	\$ 18.93	\$ 20.20	\$ 21.21	\$ 22.48	\$ 23.49
Painters - Apprentice - 2nd year	Painters	Apprentice - 2nd year	\$ 22.76	75%	\$ 23.66	\$ 25.25	\$ 26.51	\$ 28.11	\$ 29.37
Painters - Apprentice - 3rd year	Painters	Apprentice - 3rd year	\$ 27.32	90%	\$ 28.39	\$ 30.30	\$ 31.82	\$ 33.73	\$ 35.24
Plumbers and pipefitters - General foreperson	Plumbers and pipefitters	General foreperson	\$ 40.48	120%	\$ 42.66	\$ 45.39	\$ 47.57	\$ 50.30	\$ 52.48
Plumbers and pipefitters - foreperson	Plumbers and pipefitters	foreperson	\$ 38.79	115%	\$ 40.88	\$ 43.50	\$ 45.59	\$ 48.20	\$ 50.29
Plumbers and pipefitters - Journeyman	Plumbers and pipefitters	Journeyman	\$ 33.73		\$ 35.55	\$ 37.82	\$ 39.64	\$ 41.91	\$ 43.73
Plumbers and pipefitters - Apprentice - 2nd year	Plumbers and pipefitters	Apprentice - 2nd year	\$ 21.93	65%	\$ 23.11	\$ 24.58	\$ 25.77	\$ 27.24	\$ 28.43
Plumbers and pipefitters - Apprentice - 3rd year	Plumbers and pipefitters	Apprentice - 3rd year	\$ 25.30	75%	\$ 26.66	\$ 28.37	\$ 29.73	\$ 31.44	\$ 32.80
Plumbers and pipefitters - Apprentice - 4th year	Plumbers and pipefitters	Apprentice - 4th year	\$ 28.67	85%	\$ 30.22	\$ 32.15	\$ 33.69	\$ 35.63	\$ 37.17
Sheet metal - General foreperson	Sheet metal	General foreperson	\$ 37.16	4.00	\$ 38.93	\$ 41.14	\$ 42.91	\$ 45.12	\$ 46.89
Sheet metal - Non-working foreperson	Sheet metal	Non-working foreperson	\$ 36.16	3.00	\$ 37.93	\$ 40.14	\$ 41.91	\$ 44.12	\$ 45.89
Sheet metal - Working foreperson	Sheet metal	Working foreperson	\$ 35.16	2.00	\$ 36.93	\$ 39.14	\$ 40.91	\$ 43.12	\$ 44.89
Sheet metal - Journeyman	Sheet metal	Journeyman	\$ 33.16		\$ 34.93	\$ 37.14	\$ 38.91	\$ 41.12	\$ 42.89
Sheet metal - Welder	Sheet metal	Welder	\$ 34.16		\$ 35.93	\$ 38.14	\$ 39.91	\$ 42.12	\$ 43.89
Sheet metal - Apprentice - 2nd year	Sheet metal	Apprentice - 2nd year	\$ 19.90	60%	\$ 20.96	\$ 22.29	\$ 23.35	\$ 24.67	\$ 25.74
Sheet metal - Apprentice - 3rd year	Sheet metal	Apprentice - 3rd year	\$ 24.87	75%	\$ 26.20	\$ 27.86	\$ 29.18	\$ 30.84	\$ 32.17
Sheet metal - Apprentice - 4th year	Sheet metal	Apprentice - 4th year	\$ 28.19	85%	\$ 29.69	\$ 31.57	\$ 33.08	\$ 34.96	\$ 36.46
Teamsters - Group 1 teamster	Teamsters	Group 1 teamster	\$ 32.72		\$ 34.49	\$ 36.70	\$ 38.47	\$ 40.68	\$ 42.45
Teamsters - Working foreperson Group 1	Teamsters	Working foreperson Group 1	\$ 34.22	\$ 1.50	\$ 35.99	\$ 38.20	\$ 39.97	\$ 42.18	\$ 43.95
Teamsters - Non-working foreperson Group 1	Teamsters	Non-working foreperson Group 1	\$ 34.22	\$ 1.50	\$ 35.99	\$ 38.20	\$ 39.97	\$ 42.18	\$ 43.95
Teamsters - General foreperson Group 1	Teamsters	General foreperson Group 1	\$ 34.72	\$ 2.00	\$ 36.49	\$ 38.70	\$ 40.47	\$ 42.68	\$ 44.45
Teamsters - Group 2 teamster	Teamsters	Group 2 teamster	\$ 32.50		\$ 34.27	\$ 36.48	\$ 38.25	\$ 40.46	\$ 42.23
Teamsters - Working foreperson Group 2	Teamsters	Working foreperson Group 2	\$ 34.00	\$ 1.50	\$ 35.77	\$ 37.98	\$ 39.75	\$ 41.96	\$ 43.73
Teamsters - Non-working foreperson Group 2	Teamsters	Non-working foreperson Group 2	\$ 34.00	\$ 1.50	\$ 35.77	\$ 37.98	\$ 39.75	\$ 41.96	\$ 43.73
Teamsters - General foreperson Group 2	Teamsters	General foreperson Group 2	\$ 34.50	\$ 2.00	\$ 36.27	\$ 38.48	\$ 40.25	\$ 42.46	\$ 44.23
Teamsters - Group 3 teamster	Teamsters	Group 3 teamster	\$ 32.29		\$ 34.06	\$ 36.27	\$ 38.04	\$ 40.25	\$ 42.02
Teamsters - Working foreperson Group 3	Teamsters	Working foreperson Group 3	\$ 33.79	\$ 1.50	\$ 35.56	\$ 37.77	\$ 39.54	\$ 41.75	\$ 43.52
Teamsters - Non-working foreperson Group 3	Teamsters	Non-working foreperson Group 3	\$ 33.79	\$ 1.50	\$ 35.56	\$ 37.77	\$ 39.54	\$ 41.75	\$ 43.52
Teamsters - General foreperson Group 3	Teamsters	General foreperson Group 3	\$ 34.29	\$ 2.00	\$ 36.06	\$ 38.27	\$ 40.04	\$ 42.25	\$ 44.02
Teamsters - Group 4 teamster	Teamsters	Group 4 teamster	\$ 32.72		\$ 34.49	\$ 36.70	\$ 38.47	\$ 40.68	\$ 42.45
Teamsters - Working foreperson Group 4	Teamsters	Working foreperson Group 4	\$ 34.22	\$ 1.50	\$ 35.99	\$ 38.20	\$ 39.97	\$ 42.18	\$ 43.95
Teamsters - Non-working foreperson Group 4	Teamsters	Non-working foreperson Group 4	\$ 34.22	\$ 1.50	\$ 35.99	\$ 38.20	\$ 39.97	\$ 42.18	\$ 43.95
Teamsters - General foreperson Group 4	Teamsters	General foreperson Group 4	\$ 34.72	\$ 2.00	\$ 36.49	\$ 38.70	\$ 40.47	\$ 42.68	\$ 44.45
Teamsters - Group 5 teamster	Teamsters	Group 5 teamster	\$ 36.62		\$ 38.39	\$ 40.60	\$ 42.37	\$ 44.58	\$ 46.35
Teamsters - Working foreperson Group 5	Teamsters	Working foreperson Group 5	\$ 38.12	\$ 1.50	\$ 39.89	\$ 42.10	\$ 43.87	\$ 46.08	\$ 47.85
Teamsters - Non-working foreperson Group 5	Teamsters	Non-working foreperson Group 5	\$ 38.12	\$ 1.50	\$ 39.89	\$ 42.10	\$ 43.87	\$ 46.08	\$ 47.85
Teamsters - General foreperson Group 5	Teamsters	General foreperson Group 5	\$ 38.62	\$ 2.00	\$ 40.39	\$ 42.60	\$ 44.37	\$ 46.58	\$ 48.35
Teamsters - Group 6 teamster	Teamsters	Group 6 teamster	\$ 43.83		\$ 45.60	\$ 47.81	\$ 49.58	\$ 51.79	\$ 53.56
Teamsters - Working foreperson Group 6	Teamsters	Working foreperson Group 6	\$ 45.33	\$ 1.50	\$ 47.10	\$ 49.31	\$ 51.08	\$ 53.29	\$ 55.06
Teamsters - Non-working foreperson Group 6	Teamsters	Non-working foreperson Group 6	\$ 45.33	\$ 1.50	\$ 47.10	\$ 49.31	\$ 51.08	\$ 53.29	\$ 55.06
Teamsters - General foreperson Group 6	Teamsters	General foreperson Group 6	\$ 45.83	\$ 2.00	\$ 47.60	\$ 49.81	\$ 51.58	\$ 53.79	\$ 55.56
Teamsters - Group 4 Apprentice 1	Teamsters	Group 4 Apprentice 1	\$ 22.90	70%	\$ 24.14	\$ 25.69	\$ 26.93	\$ 28.48	\$ 29.72
Teamsters - Group 4 Apprentice 2	Teamsters	Group 4 Apprentice 2	\$ 26.18	80%	\$ 27.59	\$ 29.36	\$ 30.78	\$ 32.55	\$ 33.96
Teamsters - Group 4 Apprentice 3	Teamsters	Group 4 Apprentice 3	\$ 29.45	90%	\$ 31.04	\$ 33.03	\$ 34.63	\$ 36.62	\$ 38.21
Elevator Constructors - Mechanic	Elevator Constructors	Mechanic	\$ 35.72		\$ 37.51	\$ 39.74	\$ 41.52	\$ 43.76	\$ 45.54
Elevator Constructors - Mechanic In charge I	Elevator Constructors	Mechanic in charge I	\$ 40.19	113%	\$ 42.19	\$ 44.71	\$ 46.71	\$ 49.23	\$ 51.23
Elevator Constructors - Mechanic in charge II	Elevator Constructors	Mechanic in charge II	\$ 41.08	115%	\$ 43.13	\$ 45.70	\$ 47.75	\$ 50.32	\$ 52.37
Elevator Constructors - Probationary Helper I	Elevator Constructors	Probationary Helper I	\$ 17.86	50%	\$ 18.75	\$ 19.87	\$ 20.76	\$ 21.88	\$ 22.77
Elevator Constructors - Probationary Helper II	Elevator Constructors	Probationary Helper II	\$ 19.65	55%	\$ 20.63	\$ 21.86	\$ 22.84	\$ 24.07	\$ 25.05
Elevator Constructors - Helper I	Elevator Constructors	Helper I	\$ 25.00	70%	\$ 26.25	\$ 27.82	\$ 29.07	\$ 30.63	\$ 31.88
Elevator Constructors - Helper II	Elevator Constructors	Helper II	\$ 26.79	75%	\$ 28.13	\$ 29.80	\$ 31.14	\$ 32.82	\$ 34.16
Elevator Constructors - Improver helper	Elevator Constructors	Improver helper	\$ 28.58	80%	\$ 30.00	\$ 31.79	\$ 33.22	\$ 35.00	\$ 36.43
Null	Null	Null	\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -
Annual increase to Gross Hourly Package (GHP)					\$ 2.00	\$ 2.50	\$ 2.00	\$ 2.50	\$ 2.00

1.2.10 Sheet: 10) Schedules (1 of 2)







1.2.11 Sheet: 11) Schedule Summary

Long Name (Schedule and Start Date)	Reg Time	Schedule Summary			Total Hours Worked per Rotation	Total Hours Earned per Rotation	Total Work Days/Rotation
		1.5 x OT	2 x OT				
Sched A (21 and 7) - Mon	57%	14%	29%	210	285	21	
Sched B (10 and 4) - Mon	70%	10%	20%	100	125	10	
Sched C (14 and 7) - Mon	57%	14%	29%	140	190	14	
Sched D (14 and 14) - Mon	57%	14%	29%	140	190	14	
Sched E (20 and 8) - Mon	60%	15%	25%	200	265	20	
Sched F (20 and 10) - Mon	60%	15%	25%	200	265	20	
Sched G (28 and 14) - Mon	57%	14%	29%	280	380	28	
Other (6 and 1) - Mon	57%	17%	17%	60	75	6	
Other (7 and 7 @ 10 hrs) - Mon	57%	14%	29%	70	95	7	
Other (7 and 7 @ 12 hrs) - Mon	57%	14%	29%	84	114	7	
Regular week (5 and 2) - Mon	100%	0%	0%	40	40	5	
Regular week (4 and 3) - Mon	100%	0%	0%	40	40	4	
Sched A (21 and 7) - Tues	57%	14%	29%	210	285	21	
Sched B (10 and 4) - Tues	70%	10%	20%	100	125	10	
Sched C (14 and 7) - Tues	57%	14%	29%	140	190	14	
Sched D (14 and 14) - Tues	57%	14%	29%	140	190	14	
Sched E (20 and 8) - Tues	55%	15%	30%	200	275	20	
Sched F (20 and 10) - Tues	55%	15%	30%	200	275	20	
Sched G (28 and 14) - Tues	57%	14%	29%	280	380	28	
Other (6 and 1) - Tues	50%	17%	33%	60	85	6	
Other (7 and 7 @ 10 hrs) - Tues	57%	14%	29%	70	95	7	
Other (7 and 7 @ 12 hrs) - Tues	57%	14%	29%	84	114	7	
Sched A (21 and 7) - Wed	57%	14%	29%	210	285	21	
Sched B (10 and 4) - Wed	60%	20%	20%	100	130	10	
Sched C (14 and 7) - Wed	57%	14%	29%	140	190	14	
Sched D (14 and 14) - Wed	57%	14%	29%	140	190	14	
Sched E (20 and 8) - Wed	55%	15%	30%	200	275	20	
Sched F (20 and 10) - Wed	55%	15%	30%	200	275	20	
Sched G (28 and 14) - Wed	57%	14%	29%	280	380	28	
Other (6 and 1) - Wed	50%	17%	33%	60	85	6	
Other (7 and 7 @ 10 hrs) - Wed	57%	14%	29%	70	95	7	
Other (7 and 7 @ 12 hrs) - Wed	57%	14%	29%	84	114	7	
Sched A (21 and 7) - Thur	57%	14%	29%	210	285	21	
Sched B (10 and 4) - Thur	50%	20%	30%	100	140	10	
Sched C (14 and 7) - Thur	57%	14%	29%	140	190	14	
Sched D (14 and 14) - Thur	57%	14%	29%	140	190	14	
Sched E (20 and 8) - Thur	55%	15%	30%	200	275	20	
Sched F (20 and 10) - Thur	55%	15%	30%	200	275	20	
Sched G (28 and 14) - Thur	57%	14%	29%	280	380	28	
Other (6 and 1) - Thur	50%	17%	33%	60	85	6	
Other (7 and 7 @ 10 hrs) - Thur	57%	14%	29%	70	95	7	
Other (7 and 7 @ 12 hrs) - Thur	57%	14%	29%	84	114	7	
Sched A (21 and 7) - Fri	57%	14%	29%	210	285	21	
Sched B (10 and 4) - Fri	40%	20%	40%	100	150	10	
Sched C (14 and 7) - Fri	57%	14%	29%	140	190	14	
Sched D (14 and 14) - Fri	57%	14%	29%	140	190	14	
Sched E (20 and 8) - Fri	55%	15%	30%	200	275	20	
Sched F (20 and 10) - Fri	55%	15%	30%	200	275	20	
Sched G (28 and 14) - Fri	57%	14%	29%	280	380	28	
Other (6 and 1) - Fri	50%	17%	33%	60	85	6	
Other (7 and 7 @ 10 hrs) - Fri	57%	14%	29%	70	95	7	
Other (7 and 7 @ 12 hrs) - Fri	57%	14%	29%	84	114	7	
Sched A (21 and 7) - Sat	57%	14%	29%	210	285	21	
Sched B (10 and 4) - Sat	50%	10%	40%	100	145	10	
Sched C (14 and 7) - Sat	57%	14%	29%	140	190	14	
Sched D (14 and 14) - Sat	57%	14%	29%	140	190	14	
Sched E (20 and 8) - Sat	60%	10%	30%	200	270	20	
Sched F (20 and 10) - Sat	60%	10%	30%	200	270	20	
Sched G (28 and 14) - Sat	57%	14%	29%	280	380	28	
Other (6 and 1) - Sat	67%	0%	33%	60	80	6	
Other (7 and 7 @ 10 hrs) - Sat	57%	14%	29%	70	95	7	
Other (7 and 7 @ 12 hrs) - Sat	57%	14%	29%	84	114	7	
Sched A (21 and 7) - Sun	57%	14%	29%	210	285	21	
Sched B (10 and 4) - Sun	60%	10%	30%	100	135	10	
Sched C (14 and 7) - Sun	57%	14%	29%	140	190	14	
Sched D (14 and 14) - Sun	57%	14%	29%	140	190	14	
Sched E (20 and 8) - Sun	60%	15%	25%	200	265	20	
Sched F (20 and 10) - Sun	60%	15%	25%	200	265	20	
Sched G (28 and 14) - Sun	57%	18%	25%	280	375	28	
Other (6 and 1) - Sun	67%	17%	17%	60	75	6	
Other (7 and 7 @ 10 hrs) - Sun	57%	14%	29%	70	95	7	
Other (7 and 7 @ 12 hrs) - Sun	57%	14%	29%	84	114	7	
Null - Null							

**2) ESTIMATED DISTRIBUTION OF CONTRACTOR WORKFORCE BY MONTH  
AND YEAR**

**TRADESMEN AND SUPERVISORY STAFF**  
Month and year (Number of persons)

	2013				2014												2015												
	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	
Carpenters - Apprentice - 1	-	-	-	-	-	2	12	23	51	77	112	124	105	91	54	48	47	40	51	63	78	72	74	71	41	37	17	5	
Carpenters - Apprentice - 2	-	1	1	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carpenters - Apprentice - 3	-	1	1	1	2	2	9	13	33	51	77	93	81	69	40	37	36	30	39	49	61	57	59	57	33	29	13	4	
Carpenters - General foreperson	-	-	9	9	10	18	19	19	29	27	29	28	28	29	27	29	29	26	28	28	28	28	29	28	28	29	27	29	
Carpenters - Journeyman carpenter welder scaffolder	-	-	-	-	-	1	17	28	69	107	160	187	160	136	79	76	75	62	80	100	126	119	120	117	68	60	28	8	
Carpenters - Working foreperson	-	1	1	1	1	1	6	9	20	31	46	54	46	40	23	22	21	18	23	28	35	33	34	32	19	17	8	2	
Electricians - Apprentice - 3rd year	-	1	1	1	1	1	3	3	4	3	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	
Electricians - Journeyman	-	3	4	4	4	1	4	6	12	11	14	13	14	15	16	14	13	11	13	14	15	15	13	10	8	6	3	2	
Electricians - Non-working foreperson	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	-	-	-	-	-	1	6	12	34	45	63	57	62	58	48	49	49	44	50	52	49	42	41	33	22	22	9	2	
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	-	-	-	-	-	5	8	21	27	37	34	37	35	30	31	30	27	30	32	30	25	25	20	14	13	6	1		
Ironworkers - Rebar foreperson	-	-	-	-	-	3	4	11	13	19	17	19	18	15	15	15	15	14	15	16	15	13	13	10	7	7	3	1	
Ironworkers - Rebar General foreperson	-	-	4	4	4	7	8	8	11	10	11	11	11	11	10	11	11	10	11	11	11	11	11	11	11	11	10	11	
Ironworkers - Rebar Journeyman	-	-	-	-	-	1	9	15	42	53	74	68	74	70	59	61	61	54	61	63	59	51	51	41	28	27	11	2	
Ironworkers - Structural Apprentice - 1st 1,000 hrs	-	-	-	-	-	2	2	2	2	2	2	2	3	3	3	3	3	3	3	6	8	8	13	12	11	8	8	5	
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	-	1	3	3	3	2	5	6	9	8	9	9	10	14	13	11	10	9	10	13	15	15	15	10	17	14	10	9	5
Ironworkers - Structural foreperson	-	1	1	1	1	1	1	2	2	3	3	3	3	4	5	4	5	4	5	6	6	6	8	7	7	4	4	3	
Ironworkers - Structural General foreperson	-	-	2	2	2	3	3	3	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5
Ironworkers - Structural Journeyman	-	1	3	3	3	4	5	7	8	7	7	5	18	19	17	11	13	9	11	17	20	17	28	28	32	19	16	11	
Labourers - Class 1	-	28	41	38	57	51	60	64	106	125	165	172	160	149	105	105	105	90	104	116	128	121	133	123	86	83	55	41	
Labourers - Class 11 - General foreperson	-	-	4	4	4	9	10	10	14	13	14	14	14	13	14	14	14	13	14	14	14	14	14	14	14	14	14	13	14
Labourers - Class 2	-	3	7	4	4	8	8	8	12	11	12	12	12	11	12	12	12	12	12	12	12	12	12	12	12	12	11	12	
Labourers - Class 3	-	-	-	-	-	1	1	2	2	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	
Linespersons - General foreperson	-	-	5	5	5	9	10	10	14	13	14	14	14	14	13	14	14	13	14	14	14	14	14	14	14	14	14	13	14
Operating Engineers - Clerical Group 1	-	-	3	3	3	8	8	8	11	10	11	11	11	11	10	11	11	10	11	11	11	11	11	11	11	11	10	11	
Operating Engineers - Clerical Group 2	-	-	8	8	8	14	15	15	23	21	23	22	22	23	21	23	23	19	22	22	22	22	22	22	22	23	21	23	
Operating Engineers - Clerical Group 3	3	7	5	5	6	12	12	12	19	16	19	18	18	19	16	19	19	16	18	18	18	18	19	18	18	19	16	19	
Operating Engineers - Group 1 - General foreperson	-	-	9	9	11	19	20	20	30	28	30	29	29	30	28	30	30	27	29	29	29	29	29	30	29	29	30	28	30
Operating Engineers - Group 1 - JP	-	7	8	12	18	22	28	29	33	37	48	53	49	49	41	39	38	34	39	53	62	64	87	82	64	54	43	28	
Operating Engineers - Group 1 - Non-Working foreperson	-	7	11	10	10	4	6	10	16	20	27	28	26	24	16	16	16	13	16	17	19	17	20	20	12	12	6	4	
Operating Engineers - Group 2 - JP	-	5	6	2	2	5	10	15	24	28	37	37	34	31	21	21	21	18	21	23	26	24	28	28	18	17	10	7	
Operating Engineers - Group 3 - JP	-	-	3	10	9	7	10	11	15	14	16	16	16	16	15	16	16	14	15	16	17	17	18	15	13	14	11	11	
Operating Engineers - Group 4 - JP	-	10	9	10	12	19	26	27	31	33	43	44	41	37	25	25	25	22	24	27	31	29	33	32	20	19	12	7	
Operating Engineers - Group 5 - JP	-	4	3	7	9	17	17	17	12	16	22	24	22	20	13	13	13	11	13	14	15	14	16	16	9	9	4	2	
Painters - Group 2	-	-	1	-	-	1	3	2	3	2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	
Teamsters - Group 1 teamster	-	2	9	11	21	28	34	37	57	52	53	54	51	50	39	40	40	35	39	43	46	45	52	49	40	40	33	31	
Teamsters - Group 3 teamster	-	3	10	8	9	15	18	18	27	26	29	29	28	28	24	26	26	23	25	25	26	26	27	26	23	24	22	22	
<b>SUB-TOTAL</b>	<b>3</b>	<b>77</b>	<b>126</b>	<b>131</b>	<b>172</b>	<b>226</b>	<b>329</b>	<b>389</b>	<b>661</b>	<b>784</b>	<b>1,043</b>	<b>1,091</b>	<b>1,035</b>	<b>962</b>	<b>705</b>	<b>696</b>	<b>691</b>	<b>597</b>	<b>696</b>	<b>794</b>	<b>881</b>	<b>829</b>	<b>908</b>	<b>845</b>	<b>612</b>	<b>561</b>	<b>370</b>	<b>261</b>	
<b>DIRECT SUPERVISION</b>	<b>0</b>	<b>9</b>	<b>46</b>	<b>45</b>	<b>48</b>	<b>71</b>	<b>87</b>	<b>96</b>	<b>153</b>	<b>164</b>	<b>199</b>	<b>204</b>	<b>196</b>	<b>190</b>	<b>156</b>	<b>161</b>	<b>159</b>	<b>142</b>	<b>160</b>	<b>168</b>	<b>177</b>	<b>171</b>	<b>179</b>	<b>171</b>	<b>147</b>	<b>144</b>	<b>117</b>	<b>113</b>	
<b>TOTAL</b>	<b>3</b>	<b>86</b>	<b>172</b>	<b>176</b>	<b>220</b>	<b>297</b>	<b>416</b>	<b>485</b>	<b>814</b>	<b>948</b>	<b>1,242</b>	<b>1,295</b>	<b>1,231</b>	<b>1,152</b>	<b>861</b>	<b>857</b>	<b>850</b>	<b>739</b>	<b>856</b>	<b>962</b>	<b>1,058</b>	<b>1,000</b>	<b>1,087</b>	<b>1,016</b>	<b>759</b>	<b>705</b>	<b>487</b>	<b>374</b>	

**MANAGEMENT AND SUPERVISION STAFF**  
Month and year (Number of persons)

	2013				2014												2015											
	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MANAGEMENT	5	10	13	14	12	9	7	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
SUPERVISION	12	23	36	38	36	36	37	36	35	36	36	37	37	37	37	37	37	37	37	37	37	37	37	38	37	37	37	37
STAFF	-	-	10	14	17	32	38	49	60	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	66	66	66	66
<b>TOTAL</b>	<b>17</b>	<b>33</b>	<b>59</b>	<b>66</b>	<b>65</b>	<b>77</b>	<b>84</b>	<b>94</b>	<b>104</b>	<b>114</b>	<b>114</b>	<b>115</b>	<b>115</b>	<b>115</b>	<b>115</b>	<b>115</b>	<b>115</b>	<b>115</b>	<b>115</b>	<b>115</b>	<b>115</b>	<b>115</b>	<b>116</b>	<b>112</b>	<b>112</b>	<b>112</b>	<b>112</b>	<b>112</b>

**TRADESMEN AND SUPERVISORY STAFF AND  
MANAGEMENT AND SUPERVISION STAFF**  
Month and year (Number of persons)

<b>TOTAL</b>	<b>20</b>	<b>119</b>	<b>231</b>	<b>242</b>	<b>285</b>	<b>374</b>	<b>500</b>	<b>579</b>	<b>918</b>	<b>1,062</b>	<b>1,356</b>	<b>1,410</b>	<b>1,346</b>	<b>1,267</b>	<b>976</b>	<b>972</b>	<b>965</b>	<b>854</b>	<b>971</b>	<b>1,077</b>	<b>1,173</b>	<b>1,115</b>	<b>1,203</b>	<b>1,128</b>	<b>871</b>	<b>817</b>	<b>599</b>	<b>486</b>
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**TRADESMEN AND SUPERVISORY STAFF**  
Month and year (Number of persons)

	2016												2017												2018						TOTAL (persons)		
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Mar-18	Mar-18	Apr-18	May-18	Jun-18		Jul-18	
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58		59	
Carpenters - Apprentice - 1	2	-	-	2	28	28	14	16	34	31	38	29	21	14	-	-	2	11	11	10	1	2	6	6	3	-	-	-	-	-	-	-	1,610
Carpenters - Apprentice - 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	
Carpenters - Apprentice - 3	2	-	-	2	22	21	10	10	26	22	28	21	17	12	-	-	19	4	3	3	-	-	2	2	2	1	-	-	-	-	-	1,206	
Carpenters - General foreperson	28	27	29	28	28	28	28	29	28	28	28	29	28	26	29	27	16	15	15	16	15	15	15	15	16	11	12	11	12	11	-	1,290	
Carpenters - Journeyman carpenter welder scaffolder	4	-	-	3	45	44	22	23	55	49	60	45	35	25	-	-	1	7	8	7	1	1	4	4	4	2	-	-	-	-	-	2,432	
Carpenters - Working foreperson	1	-	-	1	13	12	6	7	15	14	17	13	10	6	-	-	10	3	3	2	-	-	1	2	2	1	-	-	-	-	-	711	
Electricians - Apprentice - 3rd year	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	83	
Electricians - Journeyman	2	1	1	2	5	5	2	4	7	8	6	5	5	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	326	
Electricians - Non-working foreperson	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	-	-	-	1	17	17	2	3	5	5	5	4	2	-	-	-	-	2	1	1	1	1	1	1	1	-	-	-	-	-	-	919	
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	-	-	-	1	11	11	1	2	3	3	3	3	1	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	560	
Ironworkers - Rebar foreperson	-	-	-	-	5	5	1	1	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	281	
Ironworkers - Rebar General foreperson	11	10	11	11	11	11	11	11	11	11	11	11	11	10	11	10	6	6	6	6	6	6	6	6	6	6	4	5	4	5	4	500	
Ironworkers - Rebar Journeyman	-	-	-	2	22	21	3	4	6	6	7	5	3	-	-	-	2	2	1	1	1	1	1	1	1	-	-	-	-	-	-	1,122	
Ironworkers - Structural Apprentice - 1st 1,000 hrs	4	1	-	-	1	2	1	2	2	2	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135	
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	5	3	1	-	1	2	1	3	4	5	4	3	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	293	
Ironworkers - Structural foreperson	2	1	1	-	1	1	1	1	2	2	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111	
Ironworkers - Structural General foreperson	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5	3	3	3	3	3	3	3	3	3	2	2	2	2	2	-	230	
Ironworkers - Structural Journeyman	8	4	1	-	2	3	3	4	4	5	4	3	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	385	
Labourers - Class 1	36	33	33	33	66	66	44	52	67	66	69	62	50	37	32	29	59	35	28	27	19	19	22	25	25	17	15	14	15	14	-	3,720	
Labourers - Class 11 - General foreperson	14	13	14	14	14	14	14	14	14	14	14	14	14	13	14	13	8	8	8	8	8	8	8	8	8	5	5	5	5	5	-	635	
Labourers - Class 2	12	11	12	12	12	12	12	12	12	12	12	12	12	11	12	11	7	7	7	7	7	7	7	7	7	4	5	5	5	5	-	554	
Labourers - Class 3	-	-	-	-	1	1	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	
Linespersons - General foreperson	14	13	14	14	14	14	14	14	14	14	14	14	14	13	14	13	8	8	8	8	8	8	8	8	8	5	6	5	6	6	-	641	
Operating Engineers - Clerical Group 1	11	10	11	11	11	11	11	11	11	11	11	11	11	10	11	10	6	6	6	6	6	6	6	6	6	4	5	4	5	4	-	498	
Operating Engineers - Clerical Group 2	22	21	23	22	22	22	22	22	22	22	22	23	22	19	23	21	13	12	12	12	12	12	12	12	12	8	9	9	9	9	-	1,016	
Operating Engineers - Clerical Group 3	18	16	19	18	18	18	18	18	18	18	18	18	18	16	19	16	11	10	10	10	10	10	10	10	11	6	9	6	9	6	-	837	
Operating Engineers - Group 1 - General foreperson	29	28	30	29	29	29	29	29	29	29	29	29	29	27	30	28	17	16	16	17	16	16	16	16	17	11	12	12	12	12	-	1,341	
Operating Engineers - Group 1 - JP	27	26	16	7	21	22	14	17	23	23	23	19	14	9	7	6	4	7	6	5	3	3	4	5	5	3	2	2	2	2	-	1,448	
Operating Engineers - Group 1 - Non-Working foreperson	2	2	1	2	9	9	4	7	10	10	10	8	5	2	1	1	2	5	4	3	1	1	2	3	3	1	-	-	-	-	-	511	
Operating Engineers - Group 2 - JP	5	4	3	4	12	12	7	10	14	14	14	11	8	4	3	3	3	7	5	4	2	2	3	4	4	2	1	1	1	1	-	687	
Operating Engineers - Group 3 - JP	10	10	11	10	11	11	11	13	17	16	17	16	14	13	11	10	5	5	5	5	5	5	5	5	5	4	4	4	4	4	-	617	
Operating Engineers - Group 4 - JP	5	4	3	4	14	14	8	11	16	16	17	13	9	5	3	3	3	9	6	5	3	2	4	5	5	3	1	1	1	1	-	867	
Operating Engineers - Group 5 - JP	1	1	-	1	7	7	3	5	8	8	8	6	4	1	-	-	1	4	3	2	-	-	1	2	2	1	-	-	-	-	-	428	
Painters - Group 2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	72	
Teamsters - Group 1 teamster	28	25	26	25	32	32	28	31	32	33	33	32	29	24	26	24	15	19	17	17	15	14	16	16	16	11	11	9	11	11	-	1,689	
Teamsters - Group 3 teamster	21	21	22	21	23	23	21	23	23	23	23	24	22	20	22	20	13	12	12	13	12	12	12	12	12	8	9	8	9	9	-	1,088	
<b>SUB-TOTAL</b>	<b>225</b>	<b>193</b>	<b>184</b>	<b>183</b>	<b>407</b>	<b>407</b>	<b>260</b>	<b>300</b>	<b>413</b>	<b>402</b>	<b>427</b>	<b>369</b>	<b>305</b>	<b>230</b>	<b>178</b>	<b>158</b>	<b>166</b>	<b>163</b>	<b>147</b>	<b>141</b>	<b>98</b>	<b>97</b>	<b>118</b>	<b>123</b>	<b>125</b>	<b>77</b>	<b>71</b>	<b>63</b>	<b>71</b>	<b>66</b>	<b>0</b>	<b>22,642</b>	
<b>DIRECT SUPERVISION</b>	<b>106</b>	<b>99</b>	<b>105</b>	<b>104</b>	<b>129</b>	<b>128</b>	<b>113</b>	<b>119</b>	<b>130</b>	<b>129</b>	<b>133</b>	<b>126</b>	<b>118</b>	<b>101</b>	<b>104</b>	<b>97</b>	<b>70</b>	<b>64</b>	<b>63</b>	<b>63</b>	<b>57</b>	<b>59</b>	<b>61</b>	<b>63</b>	<b>40</b>	<b>42</b>	<b>39</b>	<b>42</b>	<b>40</b>	<b>0</b>	<b>6,274</b>		
<b>TOTAL</b>	<b>331</b>	<b>292</b>	<b>289</b>	<b>287</b>	<b>536</b>	<b>535</b>	<b>373</b>	<b>419</b>	<b>543</b>	<b>531</b>	<b>560</b>	<b>495</b>	<b>423</b>	<b>331</b>	<b>282</b>	<b>255</b>	<b>236</b>	<b>227</b>	<b>210</b>	<b>204</b>	<b>155</b>	<b>154</b>	<b>177</b>	<b>184</b>	<b>188</b>	<b>117</b>	<b>113</b>	<b>102</b>	<b>113</b>	<b>106</b>	<b>0</b>	<b>28,916</b>	

**MANAGEMENT AND SUPERVISION STAFF**  
Month and year (Number of persons)

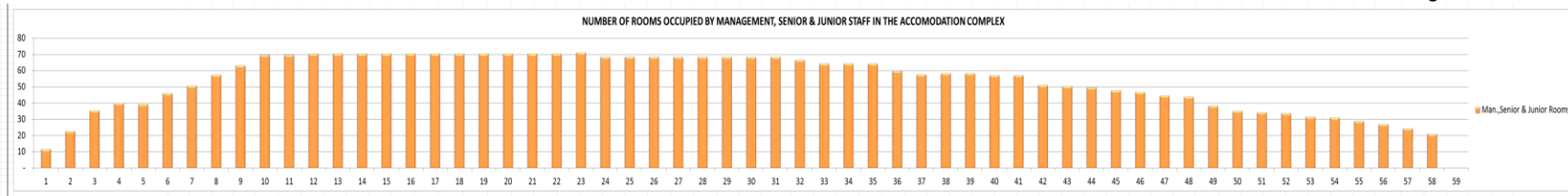
	2016												2017												2018						TOTAL (persons)	
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Mar-18	Mar-18	Apr-18	May-18	Jun-18		Jul-18
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58		59
MANAGEMENT	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	6	6	5	5	5	5	5	5	5	-	491
SUPERVISION	37	37	37	37	37	37	37	37	35	36	36	36	36	36	35	35	32	32	30	30	29	28	28	27	26	25	24	23	23	21	-	1,950
STAFF	66	66	66	63	60	60	60	53	52	52	52	50	50	41	41	40	40	37	37	36	31	27	27	27	25	25	23	21	17	14	-	2,775
<b>TOTAL</b>	<b>112</b>	<b>112</b>	<b>112</b>	<b>109</b>	<b>106</b>	<b>106</b>	<b>106</b>	<b>99</b>	<b>96</b>	<b>97</b>	<b>97</b>	<b>95</b>	<b>95</b>	<b>86</b>	<b>85</b>	<b>84</b>	<b>81</b>	<b>78</b>	<b>75</b>	<b>74</b>	<b>66</b>	<b>61</b>	<b>60</b>	<b>59</b>	<b>56</b>	<b>55</b>	<b>52</b>	<b>49</b>	<b>45</b>	<b>40</b>	<b>0</b>	<b>5,216</b>

**TRADESMEN AND SUPERVISORY STAFF AND  
MANAGEMENT AND SUPERVISION STAFF**  
Month and year (Number of persons)

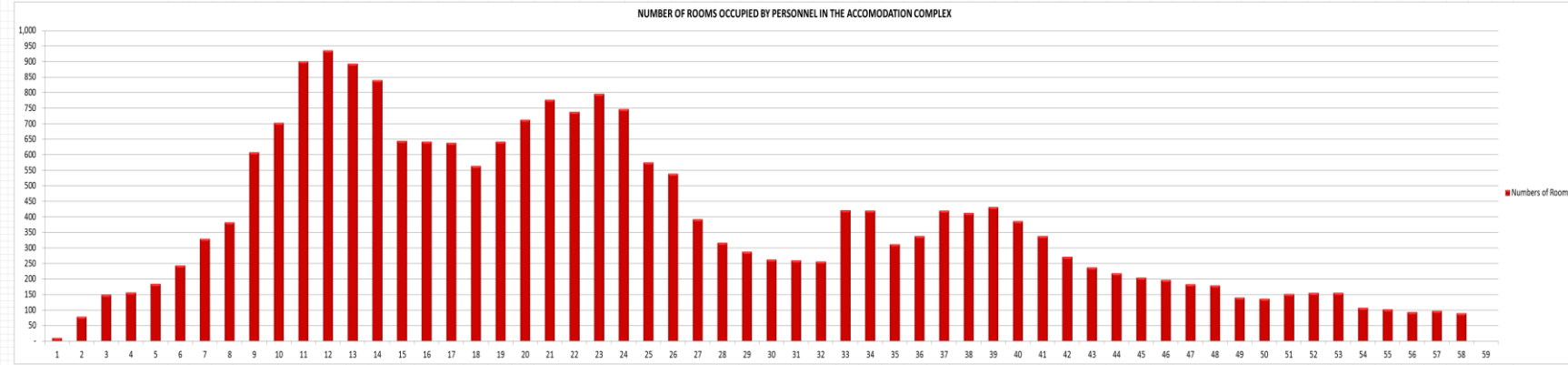
<b>TOTAL</b>	<b>443</b>	<b>404</b>	<b>401</b>	<b>396</b>	<b>642</b>	<b>641</b>	<b>479</b>	<b>518</b>	<b>639</b>	<b>628</b>	<b>657</b>	<b>590</b>	<b>518</b>	<b>417</b>	<b>367</b>	<b>339</b>	<b>317</b>	<b>305</b>	<b>285</b>	<b>278</b>	<b>221</b>	<b>215</b>	<b>237</b>	<b>243</b>	<b>244</b>	<b>172</b>	<b>165</b>	<b>151</b>	<b>158</b>	<b>146</b>
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TOTAL NUMBERS OF ROOM	2013			2014												2015												2016												2017												2018						TOTAL (persons)	
	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Mar-18	Apr-18	May-18	Jun-18		Jul-18
GENERAL TOTAL	12	81	151	158	188	245	331	383	609	704	901	938	894	841	648	644	639	565	643	714	778	739	798	748	578	540	394	318	290	264	282	258	423	422	314	340	421	414	433	388	340	272	239	220	206	199	185	181	142	138	153	157	109	104	95	100	92	-	22,493



**3) INDIRECT COSTS BREAKDOWN**

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0007 - CONSTRUCTION OF INTAKE AND POWERHOUSE, SPILLWAY AND TRANSITION DAMS				EXHIBIT 2 - APPENDIX I 3) INDIRECT COSTS BREAKDOWN FOR LABOURERS UNDER COLLECTIVE AGREEMENT AND STAFF									
				BIDDER'S NAME: <b>ASTALDI CANADA INC.</b>									
PRICE ITEM		WBS CODE		PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY of UNITS A	TOTAL MAN HOURS (AT SITE) per UNIT	TOTAL MANPOWER COST	COLLECTIVE AGREEMENT LABOUR COMPONENT		STAFF LABOUR COMPONENT		
No	REFEREN CE EXH. 2 - ATT 1	CODE	SUBCODE						UNION MAN HOURS (AT SITE)	UNION MANPOWER COST	STAFF MAN HOURS (AT SITE)	STAFF MANPOWER COST	
<b>2 0000</b>				<b>INDIRECT COSTS</b>									
1	2.1	0000.01		Mobilization	LS	1	0.00	0.00	0.00	0.00	0.00	0.00	
2	2.2	0000.02		Site Installation	LS	1	71,519	5,668,063	71,519	5,668,063.12	0.00	0.00	
3	2.3	0000.03		Contractor Equipment for Indirects	LS	1	164,938	13,197,861	164,938	13,197,861.41	0.00	0.00	
4	2.4	0000.04		Temporary Works	LS	1	40,873	3,246,714	40,873	3,246,714.27	0.00	0.00	
5	2.5	0000.05		Winter Protection	LS	1	68,850	5,531,277	68,850	5,531,277.46	0.00	0.00	
6	2.6	0000.06		Management and Staff	LS	1	1,982,044	172,483,726	1,394,044	120,378,834.76	588,000.00	52,104,891.67	
6A	2.6A	0000.06A		Design and Technical Assistance	LS	1	131,000	10,508,344	0.00	0.00	131,000.00	10,508,344.37	
7	2.7	0000.07		Attendant labour	LS	1	736,610	58,375,032	736,610	58,375,032.14	0.00	0.00	
8	2.8	0000.08		Services	LS	1	50,821	3,960,856	50,821	3,960,856.28	0.00	0.00	
9	2.9	0000.09		Employee Training	LS	1	31,450	2,420,324	31,450	2,420,324.00	0.00	0.00	
10	2.10	0000.10		Health and Safety Requirements	LS	1	116,000	8,845,020	0.00	0.00	116,000.00	8,845,020.32	
11	2.11	0000.11		Environmental Requirements	LS	1	32,400	2,556,203	0.00	0.00	32,400.00	2,556,202.80	
12	2.12	0000.12		Quality Assurance / Quality Control	LS	1	175,800	13,799,281	0.00	0.00	175,800.00	13,799,280.64	
13	2.13	0000.13		Letters of Credit	LS	1			NA	NA			
14	2.14	0000.14		Parent Guarantee	LS	1			NA	NA			
15	2.15	0000.15		Contractor Insurance, per Article 18 of the Agreement	LS	1			NA	NA			
16	2.16	0000.16		Warranty, per Article 17 of the Agreement	LS	1			NA	NA			
17	2.17	0000.17		Site Maintenance	LS	1	86,693	6,970,927	86,693	6,970,926.58	0.00	0.00	
17A	2.17A	0000.17A		Maintenance Grade No. 3 Material	M3	7,200	1,940	156,109	1,940	156,109.45	0.00	0.00	
17B	2.17B	0000.17B		Coarse Sand	M3	2,900	817	65,735	817	65,735.48	0.00	0.00	
17C	2.17C	0000.17C		Calcium Chloride (20 kg bag)	each	12,500	0.00	0.00	0.00	0.00	0.00	0.00	
18	2.18	0000.18		Financing, Contingency, Head Office Overheads, & Consultant Fees	LS	1			NA	NA			
19	2.19	0000.19		Demobilization	LS	1	0.00	0.00	0.00	0.00	0.00	0.00	
19A	2.19A	0000.19A		Estimate of Travel Allowances - Trades Labour	NA	NA			NA	NA			
<b>TOTAL</b>							<b>3,691,754.39</b>	<b>\$ 307,785,474.74</b>	<b>2,648,554.39</b>	<b>\$ 219,971,734.95</b>	<b>1,043,200.00</b>	<b>\$ 87,813,739.80</b>	

**APPENDIX J**

**Fully Executed LNTP with Amendment No. 1**

**LIMITED NOTICE TO PROCEED**  
**LOWER CHURCHILL PROJECT: MUSKRAT FALLS**  
**CH0007: CIVIL WORKS**

This Limited Notice to Proceed Agreement is made as of the 24<sup>th</sup> day of September, 2013, by and between:

**NALCOR ENERGY** a body corporate constituted pursuant to the *Energy Corporation Act*, S.N. 2007, c. E-11.01 solely in its own right and not as agent of the Crown in right of the Province of Newfoundland and Labrador, and having its head office at the City of St. John's, Province of Newfoundland and Labrador (hereinafter referred to as "**Company**")

- and -

**Astaldi Canada Inc.**  
(the "**Contractor**")

**WHEREAS** the Company and the Contractor are in the process of finalizing an agreement for the construction of the intake and powerhouse, spillway and transition dams as described in contract package CH0007 in the form of the draft attached as part of Schedule 3 hereto (the "**Agreement**");

**AND WHEREAS** the Parties have agreed that the Initial Work for which the Contractor is to be paid in accordance with this LNTP and the Agreement, is comprised of the work (together with changes thereto as the Company may approve) as described in Schedule 1 hereto (the "**Initial Work**").

**AND WHEREAS** the Parties wish to enter into this agreement to record the basis upon which the Contractor is to proceed with, and be paid for, the Initial Work.

**WITNESSETH** that in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereto covenant and agree each with the other as follows:

1. The recitals together with the terms and conditions and schedules referenced herein constitute the limited notice to proceed agreement ("LNTP"). All capitalized terms not defined herein shall have the same meanings as defined in the Agreement form attached as part of Schedule 3.
2. **Agreement.**
  - (a) Subject to Section 6(i), the Company and the Contractor intend to execute the Agreement, substantially in the form attached as part of Schedule 3 hereto, subject to only the resolution by the Parties of any issues identified by the Lenders and the Lenders' Independent Engineer, and known items to be addressed as identified in Schedule 3.

Subject to the conditions set forth in the Minutes of Meeting held on 14 September 2013 relevant to the applicability of the discount, the Contract Price, in Canadian dollars, on finalization of the Agreement shall be made up as follows

Target Cost of Labour:	\$ 507,598,341.00
Labour Profit:	\$ 35,531,884.00
Non Labour Component:	\$ 452,104,434.08

Travel Allowances (Est):	\$ 29,057,891.00
Total	\$ 1,024,292,550.08

However, if an AFC Drawing (refer to known items to be addressed as identified in Schedule 3, Item 5) contains a Change which impacts the Contract Price and/or impacts a Milestone Date or an Interface Date, a reasonable price adjustment to the Contract Price and/or adjustment to the Exhibit 9 – Interface and Milestone Schedule will be negotiated.

The Parties shall enter into good faith negotiations to resolve any such issues by making revisions to the Agreement, if necessary as a result of such resolution, subject to discretionary board approval of both Parties. The Company undertakes that it is negotiating exclusively with the Contractor for the Work during the term of this LNTP and the Parties expect to conclude these negotiations within a month of the date of this LNTP.

“Lender” means those entities that provide financing for the LCP.

“Lenders’ Independent Engineer” means the Person retained by the Lenders to provide advice on technical matters relating to the LCP.

“Initial Advance Payment” has the meaning ascribed thereto in Schedule 2 of this LNTP.

- (b) Provided the Parties have negotiated mutually acceptable wording for those known items to be addressed identified in Schedule 3 which are not yet agreed as of the date of this LNTP and received their respective board approvals then the Parties shall execute the Agreement substantially in the form set out in Schedule 3 with only those changes necessary to incorporate the mutually acceptable wording.
- (c) The Company is providing the Contractor with this binding LNTP so that Contractor can start its work on the Initial Work to preserve and maintain the Contract Price and schedule for the Agreement.

3. **Initial Work.** Company hereby directs Contractor to commence the Initial Work as follows:

- (a) The Initial Work is described in Schedule 1 and shall be performed by the Contractor in accordance with Schedule 1.
- (b) The Initial Work shall be carried out in accordance with and subject to the applicable terms and conditions of the Agreement form attached as Schedule 3, including the Articles of Agreement. For greater certainty, the terms of this LNTP shall take precedence over the terms in the Agreement attached as part of Schedule 3 in the event of any inconsistency.
- (c) Initial Work which has been completed by Contractor and Approved by Company shall be included in and form a part of the Work. Such completed and Approved Initial Work shall satisfy the obligation to perform that part of the Work to which the Initial Work relates upon execution of the Agreement.
- (d) If the Agreement is executed, the remuneration paid to the Contractor pursuant to this LNTP with respect to the Work shall be included in and form a part of the Contract Price pursuant to the Agreement for such Work and will not be an extra above and beyond the Contract Price. Such remuneration shall be credited against the Contract Price (against the initial milestone payments) following the execution of the Agreement. For greater certainty the sum of the Contractor’s compensation for performing the Initial Work under this LNTP and for performing the Work under the Agreement shall not exceed the Contract Price.
- (e) For greater certainty, the Parties acknowledge and agree that this LNTP constitutes the basis upon which the Contractor shall perform the Initial Work and that Contractor is not authorized to proceed with the balance of the Work until execution of the Agreement or this LNTP is amended by the Parties to permit a further part of the Work to proceed.



**4. Payment.**

- (a) Company shall pay the Contractor against progress for performance of the Initial Work those amounts set out in Schedule 2 (the sum of which shall be the “LNTP Price”).
- (b) Company shall pay the LNTP Price by monthly progress payments for each price item in an amount not to exceed the amounts set out for each price item in Schedule 2 provided that:
  - (i) Contractor delivers to Company an invoice with such supporting documentation as Company may reasonably require; and
  - (ii) Contractor has completed and delivered to Company all the deliverables listed in Schedule 1 for the month invoiced.

**5. Termination**

- (a) Company may terminate this LNTP at its convenience upon written notice to Contractor to be effective not less than two (2) days from the date of the written notice.
- (b) Upon such termination in accordance with paragraph (a): (i) Contractor shall cease performance of the Initial Work subject to any direction by Company for completion of any part of the Initial Work; and (ii) Company shall compensate Contractor for all Initial Work performed up to the effective date of the termination of this LNTP and for any part of the Initial Work that Company directs the Contractor to complete, plus demobilization costs and liabilities associated therewith.

In no event will compensation payable to Contractor upon termination exceed the value of that part of the LNTP Price described in Schedule 2 corresponding to each part of the Initial Work completed as of the effective date of the termination, plus demobilization costs and liabilities associated therewith. For greater certainty, the compensation determined by this Section 5 shall be Contractor's sole and exclusive remedy for termination of this LNTP Agreement.

- (c) Subject to paragraphs (a) to (c) and (d) in this Section 5, if the Company and Contractor have not executed the Agreement by no later than **31 October 2013** or any other date agreed to between the Parties, this LNTP will be terminated as of such date and neither Party will be liable for any costs, damages or liabilities on account of such termination, except for the obligation of Contractor to complete the Initial Work and liabilities associated therewith and for the obligation of Company to pay the LNTP Price, demobilization costs, and liabilities associated therewith.
- (d) Upon termination of this LNTP Contractor shall reimburse Company the amount of the Initial Advance Payment as follows:
  - i. Company shall be entitled to set off any amount otherwise payable to Contractor pursuant to paragraphs (a), (b) and (c) in this Section 5 against the Initial Advance Payment, and
  - ii. Contractor shall reimburse Company the difference between the amount of the Initial Advance Payment and the amount payable pursuant to paragraphs (a), (b) and (c) in this Section 5 within 15 days of the effective date of the termination.

**6. General Terms**

- (a) This LNTP shall in all respects be governed by and construed and interpreted in accordance with the laws of Province of Newfoundland and Labrador, and the laws of Canada applicable therein and the Parties agree to attorn to the jurisdiction of the courts of the Province of

Newfoundland and Labrador.

(b) Notices

Any notice required or permitted to be given pursuant to this LNTP shall be in writing signed by the Party giving such notice and shall be hand delivered or sent by registered letter, telefax or email (subject to confirmation of receipt in the Aconex system) to the address or telefax number or email address set forth below.

(A) To Company:

Name: Scott O'Brien

Position: Project Manager, Muskrat Falls Facilities and Infrastructure

Address: 350 Torbay Road, Suite 2  
St. John's, NL A1A 4E1

Telephone: 709-737-4245

Facsimile: 709-737-1985

E-mail: Scott.O'Brien@nalcornenergy.com

(B) To Contractor:

Astaldi Canada Inc.

Name: Guido Venturini

Position: Project Director

Address: 69 Elizabeth Ave  
St John's, NL A1A 1W8

Telephone: (514) 933-5525

Facsimile: (514) 933-2550

E-mail: g.venturini@astaldi.com

(i) Each Party to this LNTP shall have the right to change the place to which notice shall be sent or delivered by similar notice sent in like manner to the other Party.

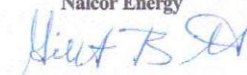
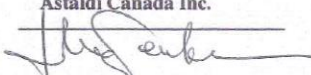

(ii) A notice issued pursuant to this LNTP shall be deemed to have been delivered as follows. Any communication given by personal delivery shall be conclusively deemed to have been given on the day of actual delivery thereof and, if given by registered mail, on the fifth (5th) Business Day following the deposit thereof in the mail and, if given by telecopier or email, on the day of transmittal thereof; provided that if any such notice or other communications so delivered or transmitted by telecopier or email after 3:00 p.m. EST on a Business Day (as hereinafter defined) or on a day other than a Business Day it shall be deemed received by the addressee on the next succeeding Business Day. In the event of the disruption of postal service, communication shall be given only by personal service or by transmittal by telecopier or email. For the purposes of this LNTP a Business Day means any day other than a Saturday, a Sunday, or a statutory or civic holiday in the Province of Newfoundland and Labrador.

(c) The Parties shall from time to time execute and deliver all such further documents and instruments and do all acts and things as the other party may reasonably require to

effectively carry out or better evidence or perfect the full intent and meaning of this LNTP.

- (d) If any part of this LNTP or the application of such part to either Party or circumstance shall, to any extent, be invalid or unenforceable, the remainder of this LNTP, or the application of such remainder part to any other Party or circumstances, shall not be affected thereby and each provision of this LNTP shall be valid and enforceable to the fullest extent permitted by law.
- (e) No amendment to this LNTP shall be valid or binding unless set forth in writing and duly executed by the Parties to this LNTP. No waiver of any breach of any provision of this LNTP shall be effective or binding unless made in writing and signed by the Party purporting to give the same and, unless otherwise provided in the written waiver, shall be limited to the specific breach waived.
- (f) This LNTP may be executed in counterparts and may be executed and delivered by facsimile and all the counterparts and facsimiles together constitute one and the same agreement.
- (g) This LNTP shall endure to the benefit of, and be binding upon, the Parties hereto and their respective successors and assigns, provided that neither Party shall be entitled to assign this LNTP in whole or in part, to any other Party without the prior written consent of the other Party hereto.
- (h) Contractor shall not assign this LNTP without the prior written consent of Company. Company may assign this LNTP in accordance with the provisions of Article 35.1 in the Agreement form attached as Schedule 3.
- (i) Notwithstanding any other provisions, the aggregate liability of Contractor (including its affiliates) or Company (including its affiliates) for any claims of any kind, losses, damages or expenses arising out of or in connection with the Initial Work or this LNTP or from the performance or breach thereof shall not exceed the LNTP Price.
- (j) Notwithstanding any other provision, neither the Company nor Contractor will be liable to the other Party for: (i) loss of profit, loss of revenue or business opportunity, loss of production, costs of money, claims of customers, costs of replacement power, in each case whether foreseeable or not; or (ii) any incidental, indirect, special or consequential damages of any nature.

IN WITNESS WHEREOF the Parties hereto have executed this LNTP as of the date first written above.

<b>Nalcor Energy</b>		<b>Astaldi Canada Inc.</b>	
By: 		By: 	
Name: <u>GILBERT BENNETT, Pres.</u>	Name: <u>GUIDO VENTURINI</u>		
Title: <u>VICE PRESIDENT - LCP</u>	Title: <u>PROJECT DIRECTOR</u>		
By: 		By:	
Name: <u>E. J. Martin</u>			
Title: <u>President &amp; CEO</u>			



**SCHEDULE 1****DESCRIPTION OF INITIAL WORK**

The objective of this LNTP is the performance of activities described below by the Contractor related to the Agreement. The list below sets out the deliverables to be provided by Contractor for delivery to Company under the LNTP.

The Contractor is required to commence the Initial Work as part of the Work under the Agreement. Since the performance of the Initial Work should allow the Contractor to comply with the Interface and Milestone Schedule, the Initial Work shall include not only preliminary works and mobilization activities, but also the activities in relation with design, procurement (plant, equipment, material and subcontract) and any other activities necessary in the expectation of executing the Agreement.

Based on the above, the estimated Initial Work shall include the following activities:

1) - Design and Permits

Detailed design of the Integrated cover system (App.A2.1 item 5)  
Detailed design of the Site Installations (App.A2.1 item 2)  
Detailed design of the electrical, drainage and industrial water system (App.A2.1 item 2)  
Detailed design of the dewatering system (App.A2.1 item 26)  
Executive quality plan (for approval) (App.A2.1 item 12)  
Executive HSE plan (for approval) (App.A2.1 item 10)  
Permits (Task Force)  
Construction Schedule

2) - Procurement

2.1 - Selection, approval contract agreement and mobilization of subcontractors for:

Fine and coarse aggregate supply for concrete (App.A2.1 item 2)  
Concrete production (App.A2.1 item 2)  
Power generation and Industrial Water production (App.A2.1 item 2)  
Power House Integrated Cover System (App.A2.1 item 5)

2.2 - Materials for Site Installations (shelters, containers, other facilities) (App.A2.1 item 2)

2.3 - Equipment for Site Installation works (App.A2.1 item 2)

2.4 - Contract finalization of strategic suppliers (Task Force)

Formworks.  
Cement  
Steel reinforcement

## 3) - Construction

Site inspection to define availability of the assigned areas to allow all temporary construction activities that can be realized outside the spillways and powerhouse (Task Force)

Access road construction (App.A2.1 item 4)

Preliminary activities for Gd 11 borrow pit stripping and excavation (App.A2.1 item 4)

Preparation and construction of laydown area (App.A2.1 item 4)

Site installation and facilities (App.A2.1 item 2)

Equipment mobilization (App.A2.1 item 1 and 3)

Workshop construction (App.A2.1 item 2)

Note: The references to items in “App.A2.1” are references to the Schedule of Price Breakdown in Appendix 2 of Exhibit 2 – Compensation in the Agreement.

**SCHEDULE 2****ESTIMATED MONTHLY PROGRESS PAYMENT OF ACTIVITIES DURING LNTP PERIOD**

Price Item	Description	Currency	Sept.2013	Oct.2013
1	Mobilization	CAD	\$370,058	\$768,582
2	Site Installation	CAD	536,211	2,267,515
3	Contractor Equipment for Indirects	CAD	60,126	124,878
4	Temporary Works	CAD	540,699	1,161,453
5	Winter Protection	CAD	246,406	511,767
6	Management and Staff	CAD	173,943	361,266
6A	Design and technical assistance	CAD	11,226	23,323
7	Attendant labour	CAD	55,963	116,262
8	Services	CAD	17,659	36,610
10	Health and Safety Requirements	CAD	41,093	85,347
11	Environmental Requirements	CAD	2,462	5,116
12	Quality Assur/Quality Control	CAD	49,746	103,320
26	Dewatering of Structure Areas	CAD		
	<b>TOTAL</b>	<b>CAD</b>	<b>\$2,105,592</b>	<b>\$5,565,439</b>

In order to initially cover the above listed activities and to start-up the following Subcontractors and suppliers an initial amount equal to CAD \$ 15,000,000 as part of the total advance payment payable pursuant to the Agreement, shall be paid to Contractor immediately upon signature of this LNTP Agreement (the "Initial Advance Payment"): covering system fabrication, aggregates and concrete plants, power generation and industrial water production, temporary facilities, formworks, cement and reinforcing steel. Contractor shall provide a letter of credit in the form in the Agreement from a bank listed in Schedule 1 of the Bank Act to secure Contractor's reimbursement obligations under this LNTP, which letter of credit shall be in the amount of the Initial Advance Payment and shall be valid and enforceable until the earlier of the execution of the Agreement or 60 days following the termination of this LNTP, following which such letter of credit shall immediately be released by Company to Contractor.

The above monthly progress payments shall be subject to a 10% holdback by Company pursuant to the Newfoundland and Labrador *Mechanics' Lien Act*. The holdback will be released to Contractor following execution of the final Agreement upon receipt by Company of a holdback release bond in the form in the Agreement covering the amount to be released or, if no Agreement is executed, the later of 45 days after termination of this LNTP or 45 days after the last work is performed under this LNTP.



If during the term of the LNTP, the Contractor is required to enter into any agreement with third parties and/or to perform any activity in order to comply with the Interface and Milestone Schedule, the Contractor shall obtain Company's Approval to enter into such agreements. Company shall reimburse Contractor for any amounts paid by Contractor to third parties under any such Approved agreements.

**SCHEDULE 3 AGREEMENT FORM**

[Attached]

**Including:**

	Agreement Document		Rev
Articles	Civil Works Agreement	Dated 8 <sup>th</sup> September Bidder-Astaldi	
Exhibit 1	Scope of Work Specification	505573-3331-41EW-0001	09
Exhibit 1	Technical Document List	505573-CH0007-40AL-I-0001	08
Exhibit 1	Technical Specification (With 13 Sections updated and remainder unchanged since Addendum No. 14)	505573-3331-41EF-0001	01
Exhibit 1	Drawings per Document List		
Exhibit 2	Compensation (Including Appendices A to G)	505573-0007-51AF-I-2135 Dated 27 August )	0T4
Exhibit 2	Attachment 1 Measurement and Payment	505573 – CH0007	08
Exhibit 3	Coordination Procedures	505573-CH0007-51AF-I-2136	02
Exhibit 4	Supplier Document Requirements List	505573-3331-41EL-0002	01
Exhibit 5	Health and Safety Requirements	505573-0000-51AF-I-2138	01
Exhibit 6	Environmental and Regulatory Compliance Req.	505573-0000-51AF-I-2139	03
Exhibit 7	Quality Requirements	505573-CH0007-51AF-I-2140	00
Exhibit 8	Subcontractors, Manufacturers and Material Sources (Including Appendix A16.2, Rev 2)	505573-0000-51AF-I-2141	00
Exhibit 9	Interface and Milestone Schedule	505573-CH0007-51AF-I-2142	07
Exhibit 10	Declaration of Residency (including Appendix A2.6)	505573-0000-51AF-I-2143	00
Exhibit 11	Company Supplied Documents	505573-CH0007-51AF-I-2144	03
Exhibit 12	Site Conditions	505573-CH0007-51AF-I-2145	06
Exhibit 13	Provincial Benefits (including Appendix A11)	505573-0000-51-AF-I-2146	00
Exhibit 14	Performance Security	505573-0007-51AF-I-2147	02
Exhibit 15	Supplementary Data		
Exhibit 16	Dispute Resolution Procedures		
	Minutes of Meeting held on 14 <sup>th</sup> September 2013		
	Pre-Award Record of Site Inspection, and Status of Site Conditions		

**KNOWN ITEMS TO BE ADDRESSED**

- 1) Incorporate any revisions made through the Bid Clarification Master, which have not already been incorporated.
- 2) Incorporate any clarifications or revisions confirmed in the Commercial Proposal Clarification Forms (Nos. 1 to 20); also agree any outstanding items in the Forms, if any;
- 3) Update the Supplier Document Requirement List;
- 4) Incorporate “good housekeeping” revisions;
- 5) Review and take account of the set of Approved For Construction Drawings that will be available in the next two weeks;
- 6) Survival clause of Agreement to be reviewed and updated.
- 7) Finalization of Appendix A2.1: to be submitted with the text of the original A2.1 Form from the RFP document; to include for the discount of forty million Canadian dollars consented as part of the Minutes of Meeting of September 14<sup>th</sup>, and to include the price adjustments made for the additional 50 million in the Letter of Credit for performance and the additional Performance Bond of 150 million.
- 8) Submission of detailed sheets as referenced in the Minutes of Meeting of September 14<sup>th</sup>;
- 9) Finalization of all Appendices of Exhibit 2, in complete alignment with one another, Exhibit 2 and the Articles.

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LNTP – 24 September 2013

S-10

**Amendment No. 1**  
**LIMITED NOTICE TO PROCEED**  
**LOWER CHURCHILL PROJECT: MUSKRAT FALLS**  
**CH0007: CIVIL WORKS**

This Amendment to the Limited Notice to Proceed Agreement is made as of the 31<sup>st</sup> day of October, 2013, by and between:

NALCOR ENERGY a body corporate constituted pursuant to the  
*Energy Corporation Act, S.N. 2007, c. E-11.01* solely in its own  
right and not as agent of the Crown in right of the Province of  
Newfoundland and Labrador, and having its head office at the City  
of St. John's, Province of Newfoundland and Labrador  
(hereinafter referred to as "Company")

- and -

Astaldi Canada Inc.  
(hereinafter referred to as "Contractor")

**WHEREAS** the Company and the Contractor are in the process of finalizing an agreement for the construction of the intake and powerhouse, spillway and transition dams as described in contract package CH0007 (the "Agreement");

**AND WHEREAS** the Company and the Contractor entered into a Limited Notice to Proceed dated the 24<sup>th</sup> day of September, 2013, for a limited scope of work on certain terms pending finalizing the Agreement ("the LNTP");

**AND WHEREAS** the discussions to finalize the terms of the Agreement are ongoing and the Parties acknowledge that they will not be able to finalize, execute and deliver the Agreement by October 31, 2013 as contemplated in the LNTP and wish to extend the term of the LNTP to the 30<sup>th</sup> day of November, 2013;

**AND WHEREAS** the Parties have agreed to meet during the week of November 4, 2013, and such other times as the Parties may agree, to discuss additions to the scope of work to be performed by the Contractor under the LNTP and the compensation payable to the Contractor for such additional work to preserve the target price and contract schedule.

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- 2 -

WITNESSETH that in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereto covenant and agree each with the other as follows:

1. The date in Section 5(c) of the LNTP is deleted and replaced with the following:  
"30 November 2013".
2. The Parties agree that all other understandings and provisions set out in the LNTP shall remain unchanged.

IN WITNESS WHEREOF the Parties hereto have executed this Amendment No. 1 to the LNTP as of the date first written above.

Nalcor Energy

Astaldi Canada Inc.

By: Paul Harrington  
 Name: PAUL HARRINGTON  
 Title: PROJECT DIRECTOR

By: Guido Venturini  
 Name: GUIDO VENTURINI  
 Title: PROJECT DIRECTOR

By: \_\_\_\_\_  
 Name: \_\_\_\_\_