

## **DESIGN-BUILD AGREEMENT**

Royal BC Museum – Collections and Research Building Project

**Royal British Columbia Museum**

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and

**Maple Reinders Constructors Ltd.**

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Dated: February 17, 2023

**TABLE OF CONTENTS**

1. DEFINITIONS AND INTERPRETATION .....1

2. CONTRACT PRICE.....13

3. CONTRACT TIME .....13

4. TERM .....14

5. REPRESENTATIVES, OWNER’S CONSULTANT, PAYMENT CERTIFIER AND KEY INDIVIDUALS  
14

6. GENERAL.....17

7. TIME SCHEDULE.....17

8. CONTROL AND SUPERVISION OF THE WORK .....19

9. QUALITY MANAGEMENT .....20

10. RESPECT IN THE WORKPLACE.....22

11. CCI DESIGNATION.....23

12. LEED GOLD CERTIFICATION .....24

13. RHFAC™ GOLD CERTIFICATION.....25

14. ENERGY .....25

15. PROJECT CREDITS .....26

16. PRE-CONSTRUCTION SURVEY .....26

17. EQUIPMENT AND FURNISHINGS .....27

18. REVIEW PROCEDURE .....27

19. GENERAL DESIGN REQUIREMENTS.....27

20. DESIGN PROCESS .....29

21. OWNERSHIP OF DOCUMENTS .....30

22. ERRORS IN DESIGN .....31

23. LABOUR AND PRODUCTS.....31

24. SUBCONTRACTS .....31

25. OTHER CONTRACTORS .....32

26. ACCESS TO AND USE OF SITE .....33

27.	PHASED CONSTRUCTION .....	33
28.	SIGNAGE.....	35
29.	USE OF SITE .....	35
30.	CONDITIONS AT SITE/DISCLOSED DATA .....	36
31.	ARCHAEOLOGICAL ITEMS .....	37
32.	CONTAMINANTS AND ENVIRONMENTAL MANAGEMENT .....	37
33.	SITE SAFETY .....	38
34.	DUST, NOISE AND VIBRATION.....	39
35.	TESTING AND COMMISSIONING.....	39
36.	DOCUMENTS AT THE SITE .....	40
37.	CLEANUP AND FINAL CLEANING OF WORK .....	40
38.	REMEDIAL WORK.....	41
39.	REJECTED WORK.....	41
40.	WARRANTY .....	41
41.	TITLE AND RISK.....	42
42.	APPLICATIONS FOR PAYMENT .....	42
43.	TAXES AND DUTIES .....	47
44.	LIEN HOLDBACK .....	48
45.	PERFORMANCE HOLDBACKS.....	48
46.	SUBSTANTIAL COMPLETION AND TOTAL COMPLETION .....	50
47.	PROJECT BINDER AND RECORD DRAWINGS.....	54
48.	CHANGES .....	55
49.	VALUATION AND CERTIFICATION OF CHANGES.....	55
50.	DETERMINATION OF COST .....	56
51.	CHANGE DIRECTIVE.....	58
52.	DELAYS.....	58
53.	NON-DEFAULT SUSPENSION/TERMINATION.....	59

54.	DEFAULT AND TERMINATION OF AGREEMENT.....	61
55.	TERMINATION BY THE DESIGN-BUILDER .....	62
56.	REPRESENTATIONS AND WARRANTIES.....	63
57.	PROTECTION OF WORK AND PROPERTY.....	65
58.	EXCLUSIONS OF LIABILITY.....	65
59.	INDEMNIFICATION.....	66
60.	DESIGN-BUILDER’S DISCHARGE OF LIABILITY .....	66
61.	BONDS.....	67
62.	INSURANCE.....	68
63.	RECORDS AND AUDIT .....	68
64.	DISPUTE RESOLUTION .....	68
65.	LAWS, NOTICE, PERMITS AND FEES .....	70
66.	INTELLECTUAL PROPERTY FEES .....	70
67.	CONFIDENTIALITY AND COMMUNICATIONS .....	70
68.	NOTICE.....	71
69.	LEGAL RELATIONSHIP .....	73
70.	ASSIGNMENT.....	73
71.	INTEREST .....	73
72.	WAIVER .....	73
73.	ASSUMPTION OF RISK.....	74
74.	GENERAL DUTY TO MITIGATE .....	74
75.	OTHER PROVISIONS.....	74
	SCHEDULE 1 STATEMENT OF REQUIREMENTS .....	78
	SCHEDULE 2 REVIEW PROCEDURE .....	79
	SCHEDULE 3 INSURANCE CONDITIONS .....	94
	SCHEDULE 4 COMMUNICATION ROLES .....	98
	SCHEDULE 5 KEY INDIVIDUALS .....	102

SCHEDULE 6 SCHEDULE OF PRICES .....	103
SCHEDULE 7 PROPOSAL EXTRACTS .....	105
SCHEDULE 8 ENERGY AND EMBODIED CARBON TARGETS .....	106
<b>APPENDIX 8A - ENERGY MODELLING METHODOLOGY AND ASSUMPTIONS .....</b>	<b>110</b>
1. General.....	110
2. Energy Model Reporting Content .....	111
3. Input Summary Reporting.....	112
4. Output Variable Reporting.....	112
5. Weather Data .....	112
6. Utility Rates .....	112
7. Envelope Modelling Methodology .....	112
8. Thermal Zones .....	113
9. Zone Independent Assumptions.....	114
10. Air Systems.....	116
11. Process and Miscellaneous Loads.....	117
12. Appended Tables .....	117
<b>APPENDIX 8B - EMBODIED CARBON MODELLING METHODOLOGIES .....</b>	<b>124</b>
1. General.....	124
2. METHODOLOGY .....	124
3. Embodied Carbon Report Contents .....	126
SCHEDULE 9 APPRENTICESHIP POLICY .....	127
SCHEDULE 10 SITE PLAN.....	129
SCHEDULE 11 CHANCE FIND PROCEDURE .....	130
SCHEDULE 12 INDIGENOUS REQUIREMENTS .....	133
SCHEDULE 13 PRE-ORDERED MATERIALS AND DEPOSITS .....	134

## DESIGN-BUILD AGREEMENT

**THIS AGREEMENT** dated for reference as of February 17, 2023 (the “**Effective Date**”) is entered into:

**BETWEEN:**

**Royal British Columbia Museum**

(the “**Owner**”)

**AND:**

**Maple Reinders Constructors Ltd.**

(the “**Design-Builder**”)

**WHEREAS:**

- A. The Owner has selected the Design-Builder to perform all Work for the Project referred to as the “Royal BC Museum - Collections and Research Building Project”, as further described in this Agreement; and
- B. The parties wish to enter into this Agreement to set out their respective rights and obligations.

NOW THEREFORE in consideration of the premises and the mutual obligations contained in this Agreement, the parties agree as follows:

### **PART A – DEFINITIONS AND INTERPRETATION**

#### **1. DEFINITIONS AND INTERPRETATION**

1.1 In this Agreement, the following words and expressions have the following meanings:

“**Agreement**” means this agreement, including the documents referred to in Section 1.2;

“**Apprenticeship Policy**” has the meaning set out in Schedule 9 - Apprenticeship Policy;

“**Approved Building Performance Professional**” has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

“**Archaeologist**” means a professional archaeologist registered and in good standing with the British Columbia Association of Professional Archaeologists;

“**Architect**” means a professional architect registered and in good standing with the Architectural Institute of British Columbia;

“**BC Hydro**” means British Columbia Hydro and Power Authority;

“**BIM**” means Building Information Modelling;

“**Bonds**” has the meaning set out in Section 61.1;

**“Building”** means the new facility to be constructed at the Lands to house a majority of the Owner’s collections and provincial archives, and provide space for the Owner’s conservation and research functions;

**“Building Energy Modeling Professional (BEMP)”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Business Day”** means a day other than a Saturday, Sunday or statutory holiday in British Columbia;

**“Category A”** has the meaning set out in the *Designation of Institutions and Public Authorities Under the Cultural Property Export and Import Act Application Guide* published by the Department of Canadian Heritage;

**“CCI Designation”** has the meaning set out in Section 11.5;

**“CCI Designation Requirements”** has the meaning set out in Section 11.1;

**“CCI Holdback”** has the meaning set out in Section 45.1;

**“Chance Find Procedure”** has the meaning set out in Schedule 11 - Chance Find Procedure;

**“Change”** means a change in the Work, including any addition, deletion, alteration, revision or substitution;

**“Change Directive”** means a written instruction referenced as a “Change Directive” executed by the Owner and directing the Design-Builder to proceed with a Change;

**“Change Order”** means a written document referenced as a “Change Order” executed by the Owner and the Design-Builder and setting out a Change and the value or method of valuation of a Change and any adjustments to the Contract Price and Contract Time;

**“Commissioning Plan”** has the meaning set out in Section 35.1;

**“Confidential Information”** means Owner Confidential Information or Design-Builder Confidential Information, as applicable;

**“Construction”** means all things, other than Design, necessary to complete the Work;

**“Contaminants”** means any materials, substances or hazardous wastes, the storage, manufacture, disposal, treatment, generation, use, transport, remediation or release into the environment of which is now or hereafter prohibited, controlled or regulated under the *Environmental Management Act* (British Columbia) and regulations;

**“Contract Price”** means the price set out in Section 2.1;

**“Contract Time”** means the time within which the Design-Builder will achieve Substantial Completion as set out in Section 3.1;

**“COVID-19 Pandemic”** means the novel coronavirus COVID-19 pandemic declared March 11, 2020 by the World Health Organization until such time as the World Health Organization designates or declares the COVID-19 post-pandemic phase;

**“Credit Provider”** has the meaning set out in Section 15.2;

**“Cumulative Not to Exceed Curve”** has the meaning given in Section 42.6;

**“Deposit”** means deposit or other advance payment prior to title to the materials or equipment passing to the Design-Builder;

**“Design”** means the design for the Project;

**“Design Package”** has the meaning set out in Section 20.1;

**“Design-Builder”** has the meaning set out on the first page of this Agreement;

**“Design-Builder Confidential Information”** means any:

- (a) proprietary information, trade secrets and know-how relating to the Design Builder’s products, equipment, processes or methods which the Design-Builder expressly identifies in writing as confidential at the time of disclosure; and
- (b) financial information of the Design-Builder,

that is supplied, or to which access is granted, to the Owner (whether before or after the Effective Date), either in writing, or in any other form, directly or indirectly pursuant to, or in connection with, this Agreement;

**“Design-Builder’s Consultant”** means Michael Green Architecture Ltd. as the principal Architect and coordinating professional and any other architectural or engineering firm or Person, including any Architect or Professional Engineer, engaged by the Design-Builder to prepare the Drawings and Specifications, or to otherwise consult to the Design-Builder on the Project;

**“Design-Builder’s Representative”** has the meaning set out in Section 5.2;

**“Disclosed Data”** means any information, data and documents (including in PLS-CADD or any other electronic format) made available or issued to the Design-Builder or any Subcontractor or other Person on behalf of the Design-Builder or any Subcontractor in connection with the Project by or on behalf of the Owner, including any information relating to the Land or the requirements of any governmental authority, whether before or after the Effective Date;

**“Dispute”** means any disagreement, failure to agree or other dispute between the Owner and the Design-Builder arising out of or in connection with this Agreement, including in respect of the interpretation, breach, performance, validity or termination of this Agreement, whether in the law of contract or any other area of law;

**“Drawings”** means all drawings for the Project that are prepared by or for the Design-Builder and submitted to the Owner under the Review Procedure and that the Design-Builder is entitled to proceed with under the Review Procedure;

**“Effective Date”** has the meaning set out on the first page of this Agreement;

**“Embodied Carbon”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Embodied Carbon”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Embodied Carbon Construction Report”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Embodied Carbon Design Report”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Embodied Carbon Intensity”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Embodied Carbon Leader”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Embodied Carbon Model”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Embodied Carbon Target”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“End Date”** means the date described in Section 4.1;

**“Energy”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Energy Consumption”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Energy Model”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Energy Target”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Energy Use Intensity”** or **“EUI”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Environmental Report”** has the meaning set out in Section 32.1(a);

**“Epidemic”** means an epidemic or pandemic of infectious disease of humans, including one that is either declared by the World Health Organization or a "regional event" as defined in the *Public Health Act* (British Columbia) for which the Provincial Health Officer gives notice under Section 52 of that Act, and including the COVID-19 Pandemic;

**“Epidemic Change in Law”** means a change to applicable Laws or Standards which in respect of an Epidemic imposes, modifies or removes measures to minimize or mitigate the spread of, and human health effects from, relevant infectious disease;

**“Epidemic Event”** means an event, other than an Epidemic Change in Law, arising after the Financial Submission Date and caused by an Epidemic;

**“Extended Warranty Period”** has the meaning set out in Section 40.1;

**“Facility”** means the buildings, related structures, utility connections, landscaping and other improvements to be constructed by the Design-Builder pursuant to this Agreement;

**“Financial Submission Date”** means November 3, 2022;

“**FIPPA**” means the *Freedom of Information and Protection of Privacy Act* (British Columbia);

“**Force Majeure**” means Epidemic Events, labour disputes, strikes, lock-outs, fire, unusual delay by common carriers or unavoidable casualties or, without limiting any of the foregoing, by a cause beyond the Design-Builder’s reasonable control, but excludes:

- (a) any event that is the result of breach of this Agreement or Law;
- (b) economic hardship or lack of financing;
- (c) equipment failure;
- (d) unavailability of personnel, labour or Subcontractors, unless and to the extent caused by another event of Force Majeure;
- (e) unavailability of materials, unless and to the extent caused by another event of Force Majeure;
- (f) labour disputes, strikes or lock-outs of the personnel of the Design-Builder or the Subcontractors;
- (g) delays resulting from adverse weather conditions, unless and to the extent that such adverse weather conditions directly give rise to a declaration of a state of emergency by the Province of British Columbia pursuant to section 9 of the *Emergency Program Act* (British Columbia); and
- (h) unsuitable or unanticipated Site conditions, including subsurface conditions;

“**GST**” means the goods and services tax imposed pursuant to Section IX of the *Excise Tax Act* (Canada);

“**Gross Floor Area**” or “**GFA**” has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

“**HDMSS**” means the high-density mobile storage system required under Schedule 1;

“**Health and Safety Plan**” has the meaning set out in Section 33.5;

“**Indemnified Parties**” has the meaning set out in Section 59.1;

“**Indemnification Program**” means the Canada Travelling Exhibitions Indemnification Program;

“**Indigenous Requirements Report**” has the meaning set out in Schedule 12 – Indigenous Requirements;

“**Insurance Conditions**” means the terms and conditions set out in Schedule 3 – Insurance Conditions;

“**Key Individuals**” means the individuals identified in Schedule 5 – Key Individuals;

“**Land**” means the lands located at the address 3608 Ryder Hesjedal Way, Colwood BC and shown on the Site Plan;

**"Laws"** means the common law and any and all laws, statutes, enactments, by-laws, regulations, rules, orders, directives, policies, permits, licences, codes and rulings of any government, and any ministries, agencies, board, commission or tribunal of any government;

**"LD Holdback"** has the meaning set out in Section 45.1;

**"LEED Gold Certification"** means the award of a LEED Gold certification from the USGBC under the LEED Rating System;

**"LEED Holdback"** has the meaning set out in Section 45.1;

**"LEED Rating System"** means USGBC's Leadership in Energy & Environmental Design (LEED) Green Building Rating System for New Construction & Major Renovations LEED Building Design and Construction V4.0;

**"Lien Holdback"** means the 10% holdback required under the *Builders Lien Act* (British Columbia);

**"Mass Timber"** has the meaning set out in Schedule 1 - Statement of Requirements;

**"Materials Subject to a Deposit"** means the materials or equipment set out in Schedule 13 - Pre-Ordered Materials and Deposits, for which the Design-Builder has agreed to pay one or more Deposits and for which the Owner has agreed to make payment in advance of title passing to the Design-Builder or the Owner;

**"Material Supplier"** means an entity that has a contract with the Design-Builder to supply material or equipment under a contract with a Deposit;

**"Modelled Floor Area"** or **"MFA"** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**"On-Site Personnel"** means all Persons at the Site;

**"Other Contractor"** means any Person employed by or having a separate contract directly or indirectly with the Owner for work related to the Project, other than the Work;

**"Owner"** has the meaning set out on the first page of this Agreement;

**"Owner Confidential Information"** means any information of the Owner which is supplied, or to which access is granted, to the Design-Builder (whether before or after the Effective Date), either in writing, or in any other form, directly or indirectly pursuant to, or in connection with, this Agreement and includes the Disclosed Data, the Submittals and all analyses, compilations, studies and other documents whether prepared by or on behalf of the Owner or the Design-Builder which contain or otherwise reflect or are derived from such information;

**"Owner's Consultant"** means HDR Architecture Associates, Inc. unless replaced in accordance with Section 5.5;

**"Owner's Representative"** has the meaning set out in Section 5.1;

**"Payment Certifier"** means SSA Quantity Surveyors Ltd. unless replaced in accordance with Section 5.6 or 5.7;

**"Performance Holdbacks"** has the meaning set out in Section 45.1;

**“Person”** means an individual, legal personal representative, corporation, body corporate, firm, partnership, trust, trustee, syndicate, joint venture, limited liability company, association, unincorporated organization, union or governmental authority;

**“Pre-Ordered Materials”** means the materials and equipment set out in Schedule 13 - Pre-Ordered Materials and Deposits, for which the Owner has agreed to make payment in advance of their being delivered to the Site;

**“Professional Engineer”** means a professional engineer registered and in good standing under the *Professional Governance Act* (British Columbia);

**“Project”** means the design, construction, testing and commissioning of the Facility and all other works in accordance with this Agreement;

**“Project Archaeologist”** has the meaning set out in Schedule 11 - Chance Find Procedure;

**“Project Binder”** has the meaning set out in Section 47.1;

**“Project Credits”** means any incentive, income, credit, rebate, right, benefit or advantage provided by a governmental authority or industry group relating to energy, design, materials or environmental matters, including means of production of energy, input sources, use of products or materials, efficiencies, type and level of emissions, and compliance with any energy or environmental laws, regulations, rules or orders;

**“Project Management Plan”** means the management plan that (i) sets out a high level workplan to describe the manner in which the Design-Builder will manage the Project, including to address related matters such as traffic management and communications, and (ii) is prepared by or for the Design-Builder and submitted to the Owner;

**“Proposal Extracts”** means Schedule 7 – Proposal Extracts;

**“PST”** means the tax under the *Provincial Sales Tax Act* (British Columbia) and any regulation thereunder, including any transition provisions;

**“Quality Management Plan”** means the plan for quality management including quality control and quality assurance with respect to the Work, together with such changes to the plan that are prepared by the Design-Builder and submitted to the Owner under the Review Procedure and that the Design-Builder is entitled to proceed with under the Review Procedure;

**“RBCM ILOs”** means the Owner’s Indigenous Liaison Officers as identified by the Owner to the Design-Builder;

**“Record Drawings”** means the as-built Drawings and Specifications that record the completed Facility;

**“Respect in the Workplace Plan”** has the meaning set out in Section 10.1;

**“Review Procedure”** means Schedule 2 – Review Procedure;

**“RHFAC™ Gold Certification”** means the award of a gold certification from the Rick Hansen Foundation based on the rating criteria set forth in Rick Hansen Foundation Accessibility Certification™ (RHFAC) v3.0;

**“Schedule of Values”** means the schedule to be provided by the Design-Builder pursuant to Section 42.4 and reviewed by the Owner under the Review Procedure that allocates the Contract Price set out in Schedule 6 – Schedule of Prices over the course of the Project and that is the basis for monthly payments by the Owner for Work properly performed pursuant to this Agreement;

**“Site”** means the place where the Construction is to be performed on the Land as indicated on the Site Plan;

**“Site Occupation Date”** means the date that is the third Business Day after the Effective Date unless otherwise agreed by the Owner and the Design-Builder;

**“Site Plan”** means the plan of the Site attached as Schedule 10 – Site Plan;

**“Site Reports”** means the following reports:

- (a) the report entitled “Geotechnical\_Report\_Review of Site Preparation Works\_2021-08-06” dated August 6, 2021, prepared by Geopacific Consultants Ltd.;
- (b) the report entitled “Archaeological Report CRB\_AOA\_2021-05-21” dated May 21, 2021, prepared by Terra Archaeology Ltd.; and
- (c) the report entitled “Groundwater Supply Report\_WWAL 21-018-01VC \_2021\_09\_24” dated September 24, 2021, prepared by Western Water Associates Ltd.

**“Specifications”** means all construction and other specifications for the Project prepared by or for the Design-Builder and submitted to the Owner under the Review Procedure and that the Design-Builder is entitled to proceed with under the Review Procedure;

**“Standards”** means any and all Laws, professional standards and specifications applicable to the Work, or to work such as the Project, as they are in force from time to time in the latest current version thereof;

**“Statement of Requirements”** means Schedule 1 – Statement of Requirements;

**“Subcontract”** means a contract with a Subcontractor;

**“Subcontractor”** means a Person, including the Design-Builder’s Consultant, having a contract with the Design-Builder or with a subcontractor of any tier to perform a part or parts of the Work or to supply products or materials for the Work;

**“Submittal”** means any and all items, documents and anything else required or specified by this Agreement (including by Section 20), and any and all subsequent revisions, amendments and changes thereto, in respect of the Design and the Construction to be submitted to, reviewed, accepted or otherwise processed or considered by the Owner;

**“Submittal Schedule”** has the meaning set out in Section 1.1 of Schedule 2 – Review Procedure;

**“Substantial Completion”** has the meaning set out in Section 46.2;

**“Substantial Completion Certificate”** means the certificate issued to the Design-Builder by the Payment Certifier upon the achievement of Substantial Completion, as described in this Agreement;

**“Substantial Completion Date”** means the date that Substantial Completion has been achieved by the Design-Builder, as set out in the Substantial Completion Certificate;

**“Target Substantial Completion Date”** means October 10, 2025 as such date may be adjusted by the Owner from time to time in accordance with this Agreement;

**“Term”** means the period commencing on the Effective Date and ending on the End Date;

**“Time Schedule”** means the general schedule for timing of the Work as set out in the Proposal Extracts and as updated pursuant to Section 7;

**“Total Completion”** has the meaning set out in Section 46.11;

**“Total Completion Certificate”** means the certificate issued to the Design-Builder by the Payment Certifier upon the achievement of Total Completion;

**“Total Completion Date”** means the date that Total Completion has been achieved, as set out in the Total Completion Certificate;

**“User Consultation Group”** has the meaning set out in Section 4 of Schedule 2 – Review Procedure;

**“Warranty Holdback”** has the meaning set out in Section 45.1;

**“Warranty Period”** has the meaning set out in Section 40.1;

**“Weather Data”** has the meaning set out in Schedule 8 - Energy and Embodied Carbon Targets;

**“Work”** means everything to be undertaken by the Design-Builder under this Agreement; and

**“WorkSafe BC”** means the board constituted pursuant to the *Workers Compensation Act* (British Columbia).

Acronyms used in this Agreement have the meanings set out in Section 1.3 of Schedule 1 – Statement of Requirements.

1.2 This Agreement includes the following schedules and all appendices and attachments to those schedules:

- (a) Schedule 1 – Statement of Requirements;
- (b) Schedule 2 – Review Procedure;
- (c) Schedule 3 – Insurance Conditions;
- (d) Schedule 4 – Communication Roles;
- (e) Schedule 5 – Key Individuals;
- (f) Schedule 6 – Schedule of Prices;
- (g) Schedule 7 – Proposal Extracts;

- (h) Schedule 8 – Energy and Embodied Carbon Targets;
- (i) Schedule 9 – Apprenticeship Policy;
- (j) Schedule 10 – Site Plan;
- (k) Schedule 11 – Chance Find Procedure;
- (l) Schedule 12 – Indigenous Requirements; and
- (m) Schedule 13 - Pre-Ordered Materials and Deposits

1.3 This Agreement will be interpreted according to the following provisions, except to the extent the context or the express provisions of this Agreement otherwise require:

- (a) no rule of law will apply that would construe this Agreement or any part of it against the party who (or whose counsel) drafted, prepared or put forward this Agreement or any part of it;
- (b) the table of contents, headings and sub-headings, marginal notes and references to them in this Agreement are for convenience of reference only, do not constitute a part of this Agreement and will not be taken into consideration in the interpretation or construction of, or affect the meaning of, this Agreement;
- (c) neither the organization of the Statement of Requirements, the Proposal Extracts or any other documents included in this Agreement into divisions, sections and parts, or the arrangement of drawings or specifications included in this Agreement will control the Design-Builder in dividing the Work among Subcontractors or in establishing the Work to be performed by a trade;
- (d) each reference to a Section or Schedule is a reference to a Section of or Schedule to this Agreement;
- (e) a Schedule includes all of the appendices and other attachments attached to that Schedule;
- (f) each reference to an agreement, document, standard, principle or other instrument includes (subject to all relevant approvals and any other provisions of this Agreement expressly concerning such agreement, document, standard, principle or other instrument) a reference to that agreement, document, standard, principle or instrument as amended, supplemented, substituted, novated or assigned;
- (g) each reference to a statute or statutory provision (including any subordinate legislation) includes any statute or statutory provision which amends, extends, consolidates or replaces the statute or statutory provision or which has been amended, extended, consolidated or replaced by the statute or statutory provision and includes any orders, regulations, by-laws, ordinances, orders, codes of practice, instruments or other subordinate legislation made under the relevant statute;
- (h) each reference to time of day is a reference to Pacific Standard Time or Pacific Daylight Saving Time, as the case may be;
- (i) words including “they”, “them” and “their”, which may import the plural include the singular and vice versa;

- (j) words which may import gender are interpreted as gender neutral;
- (k) each reference to a public organization is deemed to include a reference to any successor(s) to such public organization or any organization or entity or organizations or entities which has or have taken over the functions or responsibilities of such public organization;
- (l) unless the context otherwise requires, each reference to “parties” means the parties to this Agreement and each reference to a “party” means any one of the parties to this Agreement, provided however that a reference to a third party does not mean a party to this Agreement;
- (m) all monetary amounts are expressed in Canadian Dollars;
- (n) whenever this Agreement obliges a party (the “**Payor**”) to pay any amount to the other party (the “**Payee**”) in respect of any costs, expenses, fees, charges, liabilities, losses, claims or other sums incurred by the Payee:
  - (i) such obligation will be construed as applying only to so much of such sums as have been properly incurred on an arm’s length commercial basis or, where not incurred on an arm’s length commercial basis (including when the payment is made to an affiliate of the Payee), so much of them as are proper and reasonable; and
  - (ii) the Payee will, when requested by the Payor, provide supporting evidence of such costs, expenses, fees, charges, liabilities, losses, claims or other sums;
- (o) the Owner will not be imputed with knowledge of any fact, matter or thing unless that fact, matter or thing is within the actual knowledge of any of those of its employees or agents (including the Owner’s Representative) who have responsibilities in connection with the conduct of the Work;
- (p) without limiting the extent of its actual knowledge, the Design-Builder will for all purposes of this Agreement be deemed to have such knowledge in respect of the Work as is held (or ought reasonably to be held) by all Persons involved in carrying out the Work including the Design-Builder and the Subcontractors (including the Design-Builder’s Consultant) and the officers, agents, employees or workers of any of them;
- (q) each requirement for a thing or action to be “in accordance with” or “in compliance with” any standard, code or specification or other requirement or stipulation means that such thing or action is to exceed or at least equal that standard, code, specification or other requirement or stipulation;
- (r) the words “include”, “includes” and “including” are to be construed as meaning “include without limitation”, “includes without limitation” and “including without limitation”, respectively;
- (s) the terms “will”, “shall” and “must” are synonymous;
- (t) the Statement of Requirements and Schedule 8 – Energy and Embodied Carbon Targets includes provisions written in the imperative, and all such provisions will be construed as obligations of the Design-Builder;

- (u) when a party has “discretion”, it means that party has the sole, absolute and unfettered discretion, with no requirement to act reasonably or provide reasons unless specifically required under the provisions of this Agreement;
- (v) any consent contemplated to be given under this Agreement must be in writing;
- (w) general words are not given a restrictive meaning:
  - (i) if they are introduced by the word “other”, by reason of the fact that they are preceded by words indicating a particular class of act, matter or thing; or
  - (ii) by reason of the fact that they are followed by particular examples intended to be embraced by those general words;
- (x) words or abbreviations which have well-known technical or trade meanings are used in accordance with those meanings;
- (y) the expression “all reasonable efforts” and expressions of like import, when used in connection with an obligation of either of the parties, means taking in good faith and with due diligence all commercially reasonable steps to achieve the objective and to perform the obligation, including doing all that can reasonably be done in the circumstances taking into account each party’s obligations hereunder to mitigate delays and additional costs to the other party, and in any event taking no less steps and efforts than those that would be taken by a commercially reasonable and prudent Person in comparable circumstances but where the whole of the benefit of the obligation and where all the results of taking such steps and efforts accrued solely to that Person’s own benefit, provided that the foregoing will not require the Owner to:
  - (i) take any action which is contrary to the public interest, as determined by the Owner in its discretion; or
  - (ii) undertake any mitigation measure that might be available arising out of its status as a public body that would not normally be available to a private commercial party;
- (z) the expressions “by the Design-Builder” and “by or through the Design-Builder” and expressions of like import are synonymous and mean by the Design-Builder or by anyone employed by or through the Design-Builder, including the Design-Builder and all Subcontractors and their respective officers, agents, employees and workers;
- (aa) all accounting and financial terms used herein are, unless otherwise indicated, to be interpreted and applied in accordance with GAAP, consistently applied;
- (bb) if the time for doing an act falls or expires on a day that is not a Business Day, the time for doing such act will be extended to the next Business Day;
- (cc) each provision of this Agreement will be valid and enforceable to the fullest extent permitted by Laws. If any provision of this Agreement is held to be invalid, unenforceable or illegal to any extent, such provision may be severed and such invalidity, unenforceability or illegality will not prejudice or affect the validity, enforceability and legality of the remaining provisions of this Agreement. If any such provision of this Agreement is held to be invalid, unenforceable or illegal, the parties will promptly endeavour in good faith to negotiate new provisions to eliminate such invalidity, unenforceability or illegality and to restore this Agreement as nearly as possible to its original intent and effect; and

- (dd) each release, waiver of liability and indemnity in this Agreement expressed to be given in favour of a party is and will be interpreted as having been given in favour of and may be enforced by that party and, in the case of the Owner, by the Indemnified Parties.
- 1.4 All documents forming this Agreement are complementary, and what is required by any one will be as binding as if required by all.
- 1.5 If there is a conflict within the documents forming this Agreement:
- (a) the provisions establishing the higher quality, manner or method of performing the Work, using the more stringent standards, will prevail, with the intent that the provisions which produce the higher quality with the higher levels of safety, reliability, durability, performance and service will prevail;
  - (b) the order of priority of documents from highest to lowest will be:
    - (i) the part of this Agreement from the first page to the page with the signatures of the individuals executing this Agreement on behalf of each of the parties;
    - (ii) the schedules (including appendices and attachments to the schedules), except Schedule 7 – Proposal Extracts, in the order in which they are listed in Section 1.2;
    - (iii) Schedule 7 – Proposal Extracts;
  - (c) specifications will govern over drawings;
  - (d) drawings of a larger scale will govern over those of a smaller scale of the same date;
  - (e) dimensions shown in drawings will govern over dimensions scaled from drawings; and
  - (f) later dated documents will govern over earlier dated documents of the same type.

## **PART B – PRICE, TIME, TERM**

### **2. CONTRACT PRICE**

- 2.1 The Owner will pay the Contract Price of \$204,884,000 plus applicable GST to the Design-Builder for performance of the Work.
- 2.2 The Contract Price is the entire compensation to the Design-Builder for performance of the Work.
- 2.3 The Contract Price is subject to adjustments as provided in this Agreement.
- 2.4 The Owner will pay the Contract Price to the Design-Builder as provided in this Agreement.

### **3. CONTRACT TIME**

- 3.1 The Design-Builder will commence the Work within seven days after the Effective Date and will thereafter diligently perform the Work in accordance with this Agreement and achieve Substantial Completion on or before the Target Substantial Completion Date and Total Completion on or before the date that is not more than 90 days after Substantial Completion.

- 3.2 The Design-Builder will perform the Work in compliance with the Time Schedule, as may be modified in accordance with the terms of this Agreement.
- 3.3 If the Design-Builder fails to achieve Substantial Completion on or before the Target Substantial Completion Date, the Design-Builder will pay to the Owner by way of liquidated damages and not as a penalty the sum of \_\_\_\_\_ per day for each and every day after the Target Substantial Completion Date that Substantial Completion is not achieved. The maximum aggregate amount of such liquidated damages will be \_\_\_\_\_ of the Contract Price. If this Agreement is terminated, the reference in this Section 3.3 to the "Contract Price" will be deemed only for purposes of this Section 3.3 to be the amount to which the Design-Builder would have been entitled if the Design-Builder had properly performed and completed the Work and this Agreement had not been terminated. The liquidated damages will be the Owner's sole claim for damages against the Design-Builder for failure to achieve Substantial Completion by the Target Substantial Completion Date. The liquidated damages will not relieve the Design-Builder from its obligation to complete the Work or from any other duties, obligations or responsibilities of the Design-Builder under this Agreement, and will not limit the Owner's rights to terminate this Agreement for default of the Design-Builder under this Agreement.
- 3.4 The Owner and the Design-Builder agree that the amount in Section 3.3 represents a genuine pre-estimate of the damages and expenses that the Owner is likely to incur for such failure to meet the Target Substantial Completion Date for the Work and both parties expressly agree that such amount is not a penalty. The Owner may, in its discretion, either deduct the daily sums in respect of liquidated damages from the Performance Holdbacks or any amounts payable to the Design-Builder under this Agreement or may require payment thereof by the Design-Builder on demand.

#### 4. **TERM**

- 4.1 With the exception of provisions that are expressly stated to survive the expiry of the Term, this Agreement is effective for the period commencing on the Effective Date and ending on the date (the "**End Date**") that (i) this Agreement is terminated in accordance with its terms or (ii) all of the following conditions are fulfilled:
- (a) the Design-Builder and the Owner have performed all obligations required under this Agreement;
  - (b) the Total Completion Certificate has been issued in accordance with Section 46.12; and
  - (c) the Design-Builder has fulfilled all of its obligations pursuant to Section 40.

#### 5. **REPRESENTATIVES, OWNER'S CONSULTANT, PAYMENT CERTIFIER AND KEY INDIVIDUALS**

- 5.1 Within seven days after the Effective Date, the Owner will give written notice to the Design-Builder designating its representative for the purposes of this Agreement (the "**Owner's Representative**"). The Owner will give written notice to the Design-Builder of any change of the Owner's Representative. The Owner or the Owner's Representative may by written notice delegate any or all of the functions of the Owner's Representative to any other individual, including for a specified period of time in the absence of the Owner's Representative.
- 5.2 The representative of the Design-Builder for the purposes of this Agreement (the "**Design-Builder's Representative**") will be the individual designated as such in Schedule 5 – Key Individuals, unless otherwise agreed by the Owner. Notwithstanding the Design-Builder's Representative being identified in Schedule 5 – Key Individuals, the parties agree that the Design-Builder's Representative is not a Key Individual for the purposes of this Agreement. The Design-

Builder's Representative may by written notice delegate any or all of the functions of the Design-Builder's Representative to any other individual, including for a specified period of time in the absence of the Design-Builder's Representative.

- 5.3 The Design-Builder's Representative will represent the Design-Builder and written instructions given to the Design-Builder's Representative by the Owner will be deemed to have been given to the Design-Builder.
- 5.4 The Owner will engage the Owner's Consultant to provide, without limitation, the following services, duties and responsibilities:
- (a) interpreting, in the first instance, of the requirements of this Agreement and the making of findings as to the performance hereunder by both the Owner and the Design-Builder without showing partiality to either the Owner or the Design-Builder, and in no event incurring liability for the result of such interpretations or findings rendered in good faith in such capacity;
  - (b) interpreting and finding, in the first instance, of Disputes;
  - (c) assisting the Owner with advisory team services, including assisting with review of the Design;
  - (d) monitoring, reviewing and providing regular reporting to the Owner regarding the progress of the Work;
  - (e) rejecting Work which does not conform to the requirements of this Agreement;
  - (f) overseeing testing and inspection of the Construction, whether or not such Construction has been fabricated, installed, or completed;
  - (g) providing advice to the Owner and the Payment Certifier on the achievement of substantial performance under the *Builders Lien Act* (British Columbia), Substantial Completion and Total Completion;
  - (h) verification of the Design-Builder's applications for release of the Performance Holdbacks;
  - (i) reviewing any defects or deficiencies in the Work at Substantial Completion and during the Warranty Period and Extended Warranty Period and the issuance of appropriate instructions for the correction of same;
  - (j) any other work, services or responsibilities identified in this Agreement as being provided by the Owner's Consultant; and
  - (k) such other work that may be required by the Owner from time to time and that is acceptable to the Owner's Consultant.
- 5.5 If the Owner's Consultant's engagement is terminated, the Owner will engage a new Owner's Consultant to provide the Owner's Consultant's services. The Owner will notify the Design-Builder in writing before appointing a new Owner's Consultant and the Owner will not appoint any Person to be the new Owner's Consultant to whom the Design-Builder may reasonably object.
- 5.6 The Owner will engage the Payment Certifier to provide, without limitation, the following services, duties and responsibilities:

- (a) determining of amounts owing to the Design-Builder based on the Payment Certifier's observations and evaluations of the Design-Builder's applications for payment;
  - (b) determining the dates of substantial performance under the *Builders Lien Act* (British Columbia) and the issuing of certificates for the same;
  - (c) in cooperation with the Owner and the Owner's Consultant, determining the dates for Substantial Completion and Total Completion and the issuing of certificates for same;
  - (d) any other work, services or responsibilities identified in this Agreement as being provided by the Payment Certifier; and
  - (e) such other work that may be required by the Owner from time to time and that is acceptable to the Payment Certifier.
- 5.7 If the Payment Certifier's engagement is terminated, the Owner will engage a new Payment Certifier to provide the Payment Certifier's services. The Owner will notify the Design-Builder in writing before appointing a new Payment Certifier and the Owner will not appoint any person to be the new Payment Certifier to whom the Design-Builder may reasonably object.
- 5.8 Attached as Schedule 5 - Key Individuals is a list of Key Individuals that the Design-Builder will utilize in undertaking the Design and Construction as described in that Schedule. Unless agreed by the Owner, no individual will hold more than one position set out in Schedule 5 - Key Individuals.
- 5.9 With respect to each of the Key Individuals:
- (a) the Design-Builder will use all reasonable efforts to retain the Key Individuals to perform the duties described in Schedule 5 - Key Individuals; and
  - (b) if for any reason a Key Individual resigns or is otherwise unavailable to perform the duties described in Schedule 5 - Key Individuals then the Design-Builder will use all reasonable efforts to retain a replacement with equal or better expertise and experience to the unavailable Key Individual satisfactory to the Owner acting reasonably, and the Design-Builder will not replace such Key Individual without the Owner's consent, acting reasonably.
- 5.10 Within 10 days of the Design-Builder having knowledge that a Key Individual is or will be unavailable, the Design-Builder will:
- (a) notify the Owner; and
  - (b) immediately commence the process to retain a replacement prior to the unavailability of such Key Individual or promptly thereafter and will replace the Key Individual no later than 20 Business Days after the unavailability of such Key Individual.
- 5.11 If either the Owner or the Design-Builder reasonably considers that a replacement cannot reasonably be retained within such 20 Business Days, the Design-Builder will deliver to the Owner a reasonable program (set out, if appropriate, in stages) for retaining the replacement. The program will specify in reasonable detail the manner in, and the latest date, by which the replacement will be retained.
- 5.12 The Owner will have 10 Business Days from receipt of the program within which to notify the Design-Builder that the Owner, acting reasonably, does not accept the program, failing which the Owner will be deemed to have accepted the program. If the Owner notifies the Design-Builder that it does not accept the program as being reasonable, the parties will use all reasonable efforts within

the following five Business Days to agree to any necessary amendments to the program put forward. In the absence of an agreement within such five Business Days, the question of whether the program (as it may have been amended by agreement) will result in the retainer of a replacement in a reasonable manner and within a reasonable time period (and, if not, what would be a reasonable program) may be referred by either party for resolution in accordance with Section 64.

- 5.13 The Design-Builder acknowledges that if any of the Key Individuals are not available and are not replaced as required by this Agreement, the Owner will not be obtaining the Design and Construction at the quality and level assumed to be included in the payments to be made to the Design-Builder hereunder and that in addition the Owner may incur costs and expenses.
- 5.14 If either (i) the position of any Key Individual remains unfilled for more than 20 Business Days after the applicable Key Individual ceased to hold the position or ceased to perform the functions of that position, or (ii) the Owner has accepted a program under Section 5.12 and the Design-Builder at any time fails to comply with any part of the program:
- (a) the Design-Builder will pay the Owner's reasonable internal administrative and personnel costs and all reasonable out-of-pocket costs related to any measures the Owner considers are reasonably incurred in relation to the position being unfilled, including the costs to ensure that Design-Builder meets its requirements for Design and Construction and for the Owner to review and consider any replacement under this Section 5; and
  - (b) the Owner at its election may deem the fact that the position of the Key Individual remains unfilled to be a Change (other than the requirements to comply with this Section 5) and for the period of time that the Key Individual position has remained unfilled the Owner will be credited with the amount of the cost (wages, benefits, fees and other costs) that would have been incurred by the Design-Builder and Subcontractors in respect of the Key Individual plus a markup as set out in Section 50.2(b).

## **PART C - THE WORK**

### **6. GENERAL**

- 6.1 The Design-Builder will perform the Work in accordance with the requirements of this Agreement, including Schedule 1 – Statement of Requirements.
- 6.2 The Design-Builder will perform and provide all professional design services, construction administration and construction work and all labour, services, products, materials, tools, water, heat, light, power, transportation, equipment, machinery and other facilities and services and everything else necessary for the performance of the Work.
- 6.3 The Design-Builder will comply with the provisions of Schedule 9 - Apprenticeship Policy and Schedule 12 - Indigenous Requirements.

### **7. TIME SCHEDULE**

- 7.1 The Design-Builder will submit for review by the Owner, by no later than 14 days after the Effective Date and, in any event, before the Owner is required to make the first payment, a Time Schedule consistent with the requirements of Section 7.2.
- 7.2 The Design-Builder will ensure that the Time Schedule will be consistent with and meet the Target Substantial Completion Date and the date required for Total Completion and all other applicable

requirements of this Agreement including Schedule 1 - Statement of Requirements and the following requirements:

- (a) fully integrated schedule developed using critical path method, following good industry practice, with each activity having the relevant predecessor and successor logic, traceable through plans and reports, design, permitting, procurement, contracts, construction and commissioning;
- (b) clearly differentiates critical path from non-critical path items;
- (c) incorporates the Submittal Schedule including consultation with User Consultation Groups and associated review periods;
- (d) identifies key design, permitting, procurement and construction milestones including external dependencies (City of Colwood, utility providers, etc.);
- (e) identifies procurement activities for long lead items including Mass Timber, collections storage racking and major equipment, showing target bid period, manufacture and delivery and mobilization dates;
- (f) identifies construction period activities including mobilization, major construction stages, testing, commissioning and staff training, deficiency review, and rectification periods;
- (g) presents sub-activities such that the duration of any sub-activity is not more than the amount the Owner reasonably requires to readily monitor the status and progress of such sub-activity, and in any event is not more than 25 days unless a longer duration is required given the nature of the sub-activity, consistent with good industry practice;
- (h) prepared using Primavera P6 and submitted in both .xer and pdf file formats with:
  - (i) no hard constraints used while soft constraints can be used for contractual milestones; and
  - (ii) no open ends with the exception of start and finish milestones; and
- (i) includes a written narrative in the form of a basis of schedule that includes the following details:
  - (i) an explanation of the construction methodology used, including the sequencing of the Work and methods of construction;
  - (ii) critical path analysis identifying risks, mitigations and concerns;
  - (iii) progress measurement basis and progress S curves of planned/actual/forecast draws;
  - (iv) key quantity curves;
  - (v) identification of long lead time items with assumed lead times; and
  - (vi) calendars library used in the Time Schedule indicating work days and hours.

7.3 The Design-Builder will submit for review by the Owner an updated Time Schedule at intervals of one month, reflecting progress to date and including a comparison to the previously submitted Time Schedule, the reasons for any changes from the previous Time Schedule and a forecast to achieving Substantial Completion and Total Completion. The Design-Builder will not change activity identifications or names and will note obsolete activities as OBSOLETE in the activity description and will not delete such activities. In addition to meeting the requirements of Section 7.2, the Design-Builder will also include in the monthly updates a detailed narrative explaining:

- (a) any changes to key construction milestones (if negative, identify how that effects the Design-Builder's float and activities planned for the next period);
- (b) variance to any activities in the current reporting period along with the resulting impacts, the cause for the variance and any mitigation that was applied; and
- (c) re-sequencing or changes made to future activities including the cause for the re-sequencing, the resulting impacts, and any changes to logic or activity durations.

7.4 If at any time the actual progress of the Work does not materially conform with the Time Schedule, the Design-Builder will:

- (a) submit to the Owner a report identifying the reasons for such non-conformity; and
- (b) submit to the Owner a revised Time Schedule that meets all applicable requirements of this Agreement and provides for the Work to be pursued diligently to Substantial Completion and Total Completion.

7.5 The Design-Builder will submit four week look-ahead schedule reviews to the Owner on a weekly basis starting four weeks prior to mobilization on site and ending upon the achievement of Substantial Completion.

## 8. CONTROL AND SUPERVISION OF THE WORK

8.1 The Design-Builder will effectively direct and supervise the Work using its best skill and attention. The Design-Builder will be solely liable and responsible for:

- (a) all design and all construction means, methods, techniques, sequences and procedures with respect to the Work; and
- (b) coordinating all parts of the Work under this Agreement and for coordinating the Work with work of Subcontractors and, in accordance with Section 25.2, with work of Other Contractors,

in accordance with generally accepted management and supervisory practices in British Columbia.

8.2 The Design-Builder will have the sole responsibility for the design, erection, operation, maintenance and removal of temporary structures and other temporary facilities and the design and execution of construction methods required in their use. The Design-Builder will engage and pay for Professional Engineers and Architects to perform these functions where required by Law, and in all cases where such temporary facilities and their method of construction are of such a nature that the education, training and qualifications of the Architect or Professional Engineer are required to produce safe and satisfactory results.

- 8.3 The Design-Builder will execute the Work in a continuous and diligent manner, and perform all its obligations in conformance with this Agreement, including the Project Management Plan and the Time Schedule.
- 8.4 Unless otherwise stated in this Agreement, the Design-Builder will perform the Work at the times, in the order of procedure and in the manner and method that the Design-Builder considers appropriate provided such Work is in conformance with this Agreement, including the Project Management Plan, Phasing Plan, Site Plan and the Time Schedule.
- 8.5 The Design-Builder will employ a competent construction manager, and necessary assistants, at the Site at all times during the progress of the Work.
- 8.6 The Design-Builder will employ or cause the Subcontractors to employ a sufficient number of sufficiently skilled workers to perform the Construction in compliance with this Agreement.
- 8.7 The Design-Builder will at all times maintain good order and discipline among its employees engaged on the Work.
- 8.8 Before commencing the Work, the Design-Builder will:
- (a) purchase and deliver the Bonds as set out in Section 61 to the Owner; and
  - (b) file with the Owner certificates of all insurance policies and necessary endorsements to comply with the Insurance Conditions.
- 8.9 The Design-Builder will not perform any Construction on the Site prior to the Site Occupation Date and will not commence any Construction until the Design-Builder has submitted a Design for that portion of the Work to be constructed that is in conformance with this Agreement, submitted to the Owner under the Review Procedure and that the Design-Builder is entitled to proceed with under the Review Procedure.
- 8.10 If agreed to in writing by the Owner, the Design-Builder may perform necessary limited investigative and preparatory activities on the Site prior to the Site Occupation Date.

## 9. **QUALITY MANAGEMENT**

- 9.1 The Design-Builder is solely responsible for the quality of the Work and will diligently implement its Quality Management Plan.
- 9.2 The Design-Builder will establish and submit for the review by the Owner, by no later than 30 days after the Effective Date, a Quality Management Plan consistent with the requirements of this Section 9, and the Design-Builder will implement such Quality Management Plan (for clarity, in the form approved by the Owner pursuant to the Review Procedure). The Design-Builder will perform the Work in accordance with, and meet the requirements of, the Quality Management Plan.
- 9.3 The Quality Management Plan will:
- (a) meet all applicable requirements of this Agreement;
  - (b) outline the procedures to be implemented to ensure robust and thorough quality control and quality assurance by the Design-Builder and its Subcontractors;
  - (c) clearly indicate the processes, testing, certification and auditing that will be performed to verify all parts of the Work comply with this Agreement;

- (d) clearly indicate the timing of the elements of the Quality Management Plan and the documentation to demonstrate compliance that will be obtained by the Design-Builder and its Subcontractors and provided to the Owner;
  - (e) include all processes, testing, certification, auditing and documentation reasonably required by the Owner's Consultant; and
  - (f) ensure that the Work will meet the requirements of this Agreement.
- 9.4 The Design-Builder will not commence any Construction until:
- (a) the quality control and quality assurance procedures applicable to that part of the Work have been developed and included in the Quality Management Plan and the Design-Builder is entitled to proceed with the Quality Management Plan in accordance with the Review Procedure; and
  - (b) such quality control and quality assurance procedures are fully implemented by the Design-Builder.
- 9.5 The Owner may at any time audit the Quality Management Plan and its implementation and may, at the Owner's expense, carry out independent quality control testing at any time.
- 9.6 Nothing in this Section 9 and no review, audit, inspection, acceptance, comment, approval, action or inaction by the Owner, the Owner's Representative, the Owner's Consultant or any Person on behalf of the Owner or by or on behalf of any governmental authority will derogate from or relieve the Design-Builder from its obligations under this Agreement including sole responsibility for the quality of the Work, the Quality Management Plan and implementation of the Quality Management Plan.
- 9.7 The Owner, the Owner's Representative, the Owner's Consultant and other Persons designated by the Owner will, subject to the terms of this Agreement relating to health and safety, have access to the Work at all times at the Site and wherever the Work is in preparation or progress and the Design-Builder will provide reasonable facilities for such access.
- 9.8 If any of the Work requires tests, inspections or approvals by this Agreement, or by the written instructions of the Owner or the Owner's Consultant, or by applicable Laws, the Design-Builder will give the Owner reasonable notice of when such Work is ready for review and inspection. The Design-Builder will arrange for and will give the Owner reasonable notice of the date and time of inspections by any governmental authorities.
- 9.9 The Design-Builder will furnish promptly to the Owner, on request, a copy of certificates and inspection reports relating to the Work.
- 9.10 If the Design-Builder covers, or permits to be covered, Work that has been designated for tests, inspections or approvals before such tests, inspections or approvals are made, given or completed, the Design-Builder will, if so directed, uncover such Work, have the inspections or tests satisfactorily completed, and make good the covering work at the Design-Builder's expense.
- 9.11 Subject to Section 9.10, the Owner may order any portion or portions of the Construction to be examined to confirm that such Construction is in accordance with the requirements of this Agreement. If the Construction is not in accordance with the requirements of this Agreement, the Design-Builder will correct the Construction and pay the cost of examination and correction. If the Construction is in accordance with the requirements of this Agreement, the Owner will pay all costs

incurred by the Design-Builder as a result of such examination and the restoration of the Construction.

- 9.12 If the results of any testing or other aspect of the Quality Management Plan or implementation of the Quality Management Plan disclose that any part of the Work is incomplete or defective in any way, the Design-Builder will immediately complete that part of the Work or correct the defect at its own expense.
- 9.13 If the Owner's Consultant, the Payment Certifier or other representatives of the Owner makes more than one review of any aspect of the Work as a result of such Work being incomplete or defective or reviews more than one test, inspection or approval in respect of any aspect of the Work as a result of such Work being incomplete or defective, the Design-Builder will bear the costs and expenses of the Owner, the Owner's Consultant, the Payment Certifier and such other representatives of the Owner.
- 9.14 Prior to Total Completion, the Design-Builder will deliver to the Owner all tests and results taken and generated by the implementation of the Quality Management Plan.
- 9.15 The Design-Builder will permit access to the Site and to the Design and the Construction to Persons designated by the Owner including Persons representing other governmental authorities.

## 10. **RESPECT IN THE WORKPLACE**

- 10.1 The Design-Builder will establish and submit for the review by the Owner, by no later than 14 days after the Effective Date, a respect in the workplace plan that complies with the requirements of this Section 10 (the "**Respect in the Workplace Plan**"), and the Design-Builder will implement such Respect in the Workplace Plan (for clarity, in the form approved by the Owner pursuant to the Review Procedure). The Design-Builder will ensure that all On-Site Personnel comply with the requirements of the Respect in the Workplace Plan.
- 10.2 The Respect in the Workplace Plan will:
- (a) include a comprehensive respectful workplace policy that seeks to foster a workplace that is free of racism, discrimination and harassment, and that promotes a culturally safe and respectful environment, including with respect to Indigenous cultural safety;
  - (b) detail within the respectful workplace policy:
    - (i) standards that all On-Site Personnel are required to comply with;
    - (ii) a complaints process in the event of an allegation of breach of such policy;
    - (iii) a protocol and principles for supporting the victim in the event of an allegation of breach of such policy;
    - (iv) a positive obligation on On-Site Personnel to report any witnessed or experienced conduct that may constitute a breach of such policy; and
    - (v) a requirement for all On-Site Personnel to participate in respectful workplace training before or upon arrival at the Site and annually thereafter, if applicable;
  - (c) detail the training procedures that On-Site Personnel will be required to partake in and the method for tracking such participation; and

- (d) set out a procedure that the Design-Builder will be required to follow to report any allegations of breach of the respectful workplace policy to the Owner.
- 10.3 The Design-Builder will not commence any Construction until:
- (a) the Design-Builder is entitled to proceed with the Respect in the Workplace Plan in accordance with the Review Procedure; and
  - (b) such respectful workplace policies and procedures are fully implemented by the Design-Builder.
- 10.4 The Owner may at any time audit the Respect in the Workplace Plan and its implementation, including inspecting the training log and investigating any allegations of breach of the respectful workplace policy reported to the Owner.
11. **CCI DESIGNATION**
- 11.1 The Design-Builder warrants to the Owner that the Facility will be designed and constructed in accordance with:
- (a) the requirements of the Canadian Conservation Institute for a Category A designation for a new heritage collection facility; and
  - (b) the requirements of the Canadian government for the Indemnification Program.
- (together, the “**CCI Designation Requirements**”).
- 11.2 Together with Design Package D, the Design-Builder will deliver to the Owner written confirmation from the Design-Builder’s Consultant that, in the opinion of the Design-Builder’s Consultant, the CCI Designation Requirements are met by the “issued for construction review” Drawings and Specifications.
- 11.3 As a condition of Substantial Completion, the Design-Builder will deliver to the Owner written confirmation from the Design-Builder’s Consultant that, in the opinion of the Design-Builder’s Consultant: (a) the Facility has been constructed in accordance with the CCI Designation Requirements; and (b) the CCI Designation will not be refused based on any element of the Design or the Construction.
- 11.4 If at any time after the Effective Date, the CCI Designation Requirements change and the Design-Builder is required to revise the Drawings, the Specifications, and the Work to comply with such requirements, then the Design-Builder will forthwith notify the Owner of such change and such change will be a Change.
- 11.5 Within 18 months after the Substantial Completion Date, the Owner will apply to the Department of Canadian Heritage for:
- (a) a Category A designation for the Facility; and
  - (b) confirmation that the Facility is eligible for the Indemnification Program
- (together, the “**CCI Designation**”).
- 11.6 If for any reason the Owner is unable to obtain the CCI Designation within 24 months after the Substantial Completion Date then, unless such inability was caused solely by an independent act

or omission of the Owner or by a delay by the Department of Canadian Heritage, the Owner will be entitled to retain the CCI Holdback as liquidated damages, provided that the Owner has first granted the Design-Builder a three month period to correct any deficiencies preventing the Owner from obtaining the CCI Designation and the Design-Builder has failed to correct such deficiencies within such time. To the extent the Owner applies for the CCI Designation later than 18 months after the Substantial Completion Date, the 24 month period in this Section 11.6 will be extended by an equivalent amount of time.

- 11.7 Upon retention of the CCI Holdback, if applied under Section 11.6, the Design-Builder will have no further obligations in respect of the CCI Designation, except to provide the Owner with such information and administrative assistance as the Owner may reasonably require in relation to obtaining the CCI Designation, and for greater certainty if the CCI Designation is not obtained, this will not be a default by the Design-Builder under this Agreement.
- 11.8 The Owner and the Design-Builder expressly agree that the CCI Holdback retained under Section 11.6 represents liquidated damages that represent a genuine pre-estimate of the damages and expenses that the Owner is likely to incur for such failure to achieve CCI Designation and both parties expressly agree that such amounts are not a penalty.

## 12. **LEED GOLD CERTIFICATION**

- 12.1 The Design-Builder will obtain LEED Gold Certification of the Facility in accordance with the following:
- (a) The Design-Builder will register the Facility with USGBC.
  - (b) The Design-Builder will, subject to this Section 12, achieve all necessary prerequisites, credits and points under the LEED Rating System required to achieve the LEED Gold Certification and may in its discretion determine which of the credits and points to pursue.
  - (c) If at any time after the Effective Date, the requirements to achieve LEED Gold Certification under the LEED Rating System change and the Design-Builder is required to comply with such change in order to achieve LEED Gold Certification for the Facility, then the Design-Builder will forthwith notify the Owner of such change and such change will be a Change.
  - (d) The Design-Builder will compile and submit the required documents for LEED Gold Certification.
  - (e) If for any reason the Design-Builder fails to obtain LEED Gold Certification for the Facility within 24 months of the Substantial Completion Date then, and in addition to any other payment owing under this Section 12.1, the Owner will be entitled to retain the LEED Holdback as liquidated damages.
  - (f) Upon retention of the LEED Holdback, if applied under this Section 12 the Design-Builder will have no further obligations in respect of obtaining LEED Gold Certification, except to provide the Owner with such information and administrative assistance as the Owner may reasonably require in relation to obtaining LEED Gold Certification, and for greater certainty the failure to obtain LEED Gold Certification will not be a default by the Design-Builder under this Agreement.
  - (g) The Owner and the Design-Builder expressly agree that the retention of the LEED Holdback under this Section 12.1 represents liquidated damages that represent a genuine pre-estimate of the damages and expenses that the Owner is likely to incur for such failure

to achieve LEED Gold Certification and both parties expressly agree that such amounts are not a penalty.

- 12.2 As a condition of Substantial Completion, the Design-Builder will deliver to the Owner:
- (a) a LEED project checklist, generally in accordance with USGBC requirements, together with a written confirmation that, in the Design-Builder's judgment LEED Gold Certification will be achieved for the Facility as required by Section 12; and
  - (b) a written opinion from a LEED accredited professional supporting the confirmation described in Section 12.2(a) above.

### 13. **RHFAC™ GOLD CERTIFICATION**

- 13.1 The Design-Builder will obtain RHFAC™ Gold Certification of the Facility.
- 13.2 If at any time after the Effective Date, the requirements to achieve RHFAC™ Gold Certification change and the Design-Builder is required to comply with such change in order to achieve RHFAC™ Gold Certification for the Facility, then the Design-Builder will forthwith notify the Owner of such change and such change will be a Change.
- 13.3 The Design-Builder will compile and submit the required documents for achieving RHFAC™ Gold Certification.
- 13.4 The Design-Builder will deliver to the Owner evidence that the Facility has achieved RHFAC™ Gold Certification in a form satisfactory to the Owner, acting reasonably, as a condition of Substantial Completion.

### 14. **ENERGY**

- 14.1 The parties will comply with the provisions of Schedule 8 - Energy and Embodied Carbon Targets.
- 14.2 The Design-Builder acknowledges that BC Hydro will provide to the Owner a rebate or other Project Credits in respect of energy modelling of the Facility, and the Design-Builder will assist the Owner in obtaining such rebate and any other Project Credits, including:
- (a) registering the Facility with all applicable BC Hydro programs;
  - (b) engaging a consultant acceptable to BC Hydro;
  - (c) submitting the Design and conducting any baseline testing;
  - (d) conducting all energy modelling that may be required by BC Hydro or the Owner;
  - (e) engaging with BC Hydro during the development of design to create a BC Hydro energy compliance checklist;
  - (f) completing the Work in accordance with the BC Hydro energy compliance checklist;
  - (g) facilitating any BC Hydro inspection or review of Construction and construction materials; and
  - (h) any other steps necessary to obtaining BC Hydro rebates and other Project Credits.

- 14.3 As a condition of Substantial Completion, the Design-Builder will deliver to the Owner:
- (a) a BC Hydro energy modelling compliance checklist together with a written confirmation that:
    - (i) the Project has been designed and constructed to maximize available BC Hydro rebates and other Project Credits; and
    - (ii) all steps have been performed, including providing all required documentation and information to the Owner and BC Hydro, to obtain BC Hydro rebates and other Project Credits (other than those steps that may only be performed by the Owner).

The Owner acknowledges that BC Hydro rebates and other Project Credits may be received after Substantial Completion.

- 14.4 This Section 14 will not limit any requirements of the Statement of Requirements or Schedule 8 - Energy and Embodied Carbon Targets for energy modelling for any purpose.

## 15. PROJECT CREDITS

- 15.1 The Owner will be entitled to any and all Project Credits related to the Work, the Facility and its operation.

- 15.2 The Design-Builder will, on behalf of the Owner, apply to BC Hydro, USGBC, and any other applicable incentive programs (“**Credit Provider**”) and take all reasonable steps to obtain for the Owner the maximum benefits (funding, rebates, incentives and cost savings) offered by each Credit Provider under such program(s).

- 15.3 Without limitation, the Design-Builder will:

- (a) meet with Credit Providers at an early stage of the design of the Project;
- (b) carry out any required studies and modelling;
- (c) collaborate with each Credit Provider to identify potential improvements to the Facility design and methods of performing the Work that may achieve greater Project Credits; and
- (d) use all commercially reasonable efforts to maximize available Project Credits through the design and construction of the Facility (to the extent possible while maintaining consistency with the Statement of Requirements).

- 15.4 Nothing in this Section 15 limits the Design-Builder’s responsibilities set forth in Section 14.

## 16. PRE-CONSTRUCTION SURVEY

- 16.1 The Design-Builder will:

- (a) prior to the start of any Construction, conduct a pre-Construction survey of existing roadways, services, infrastructure and adjacent properties, in a form and detail satisfactory to the Owner, acting reasonably, which will without limitation include field observations and photographs of existing conditions, with spot elevations by a British Columbia Land Surveyor (BCLS) registered surveyor at locations that will be accessible throughout and following Construction for ongoing settlement monitoring, and deliver a copy of the pre-Construction survey report to the Owner; and

- (b) re-survey the spot elevations at six month intervals, or such intervals as otherwise agreed to by the Owner, acting reasonably, throughout Construction and at six months following Substantial Completion to determine ongoing long-term settlement effects, and deliver monitoring surveys to the Owner in a form and detail satisfactory to the Owner, acting reasonably.

16.2 The Design-Builder will protect the Work, the Site and property adjacent to the Site from settlement, will be responsible for all settlement caused by the Work by the Design-Builder and the Subcontractors and the Facility from and after the Effective Date and will make good all damage to the Work, the Site and property adjacent to the Site at its own expense or pay all costs incurred by the Owner or others in making good such damage. Nothing in this Section 16.2 limits the responsibility of the Design-Builder to take into account in the Design and Construction possible post-Warranty Period settlement and to take measures to minimize such settlement.

## 17. **EQUIPMENT AND FURNISHINGS**

17.1 Without limiting the requirements of the Statement of Requirements in respect of equipment and furnishings, the Design-Builder will complete the Design and Construction to integrate and accommodate all equipment and furnishings in the Facility as identified in the Statement of Requirements, including all required electrical and plumbing connections, structural support, seismic restraints and space for efficient access, all to the tolerances and specifications as may be specified and required by the manufacturers or vendors of the equipment (which may be of a higher standard than specified in this Agreement). The Design-Builder will include equipment and furnishings identified in the Statement of Requirements as part of the development of Design under this Agreement.

## 18. **REVIEW PROCEDURE**

18.1 The Review Procedure will apply to all Submittals and the parties will comply with the requirements of that Schedule.

18.2 The parties will work together within the first 90 days after the Effective Date to develop a process for managing and resolving of all other Project communication documentation, including requests for information and site instructions. This process will include appropriate response times.

## 19. **GENERAL DESIGN REQUIREMENTS**

19.1 The Design-Builder is responsible for the means, methods, techniques, sequences and procedures necessary to properly complete the Design in conformance with this Agreement, including the Project Management Plan and the Time Schedule.

19.2 The Design-Builder will:

- (a) ensure that the Work, including the Design, is fully compliant with all requirements of this Agreement (including the Statement of Requirements) and all applicable Laws; and
- (b) perform and complete the Design and the Work so as to provide the completed Project that is fit for the intended uses as described in the Statement of Requirements.

19.3 The Design-Builder will:

- (a) cause all portions and aspects of the Drawings and Specifications to be prepared under the direction of, and to be sealed under the professional seal of, the Design-Builder's Consultant;

- (b) cause the Design-Builder's Consultant to confirm to the Owner, under his or her professional seal (if applicable), that in the opinion of the Design-Builder's Consultant:
    - (i) the Drawings and Specifications implement and otherwise conform to the Statement of Requirements;
    - (ii) the Drawings and Specifications implement and otherwise conform to the Proposal Extracts;
    - (iii) the Drawings and Specifications have been prepared in accordance with, and substantially comply with, all Standards; and
    - (iv) the Design-Builder's Consultant has carried out the general reviews of the progress of the Construction, to the extent necessary, in order to determine to the Design-Builder's Consultant's satisfaction that the Construction is performed in general conformity with the requirements of this Agreement (including the Statement of Requirements), the Drawings and Specifications, Standards and applicable Laws; and
  - (c) provide the Owner and all applicable governmental authorities with all letters of professional assurance as required pursuant to applicable Laws.
- 19.4 The Design-Builder will not construct any part of the Work that is not based on the most recent Drawings and Specifications or that does not meet the Statement of Requirements and other requirements of this Agreement. To the extent that the Drawings and Specifications conflict with, modify or deviate from the Statement of Requirements and other requirements of this Agreement, the Design-Builder will revise the Drawings and Specifications and submit them to the Owner under the Review Procedure.
- 19.5 The Design-Builder will make, or cause the Design-Builder's Consultant to make, any revisions to the Drawings or Specifications as are necessary from time to time due to Changes and, for clarity, the Design-Builder will comply with Section 19.3 with respect to any such revisions.
- 19.6 Nothing in this Section 19, or otherwise in or under this Agreement, makes the Owner, the Owner's Representative, the Owner's Consultant, the Payment Certifier or any other Person on behalf of the Owner responsible for the Design of the Project, including compliance of the Drawings and Specifications with the Statement of Requirements and all Standards, and the Design-Builder will, notwithstanding any review or acceptance under the Review Procedure or this Section 19 or other act of the Owner, the Owner's Representative, the Owner's Consultant, the Payment Certifier or any other Person on behalf of the Owner, remain solely liable and responsible for compliance of the Drawings and Specifications with the Statement of Requirements and all Standards.
- 19.7 Without limiting any of the obligations of the Design-Builder under this Agreement, the duties and responsibilities of the Design-Builder with respect to the Design include:
- (a) review of the documents, reports, drawings, Statement of Requirements and other information provided by the Owner and reporting promptly to the Owner any error, inconsistency or omission the Design-Builder may discover;
  - (b) preparation of a Design that meets the Statement of Requirements, all Standards, all applicable Laws and all terms of this Agreement;
  - (c) the coordination required to integrate all parts of the Design in the Work;

- (d) preparation of all reports, documents, information, schemes and presentation materials as required by this Agreement;
- (e) inspecting the progress of the Construction in order to determine that the Work is in compliance with the requirements of the Design, Specifications, all Standards and all terms of this Agreement;
- (f) liaising with the Owner and local authorities having jurisdiction as required during the Design and Construction and providing copies of all correspondence with such local authorities to the Owner; and
- (g) providing all required assurances to local authorities having jurisdiction respecting substantial conformance of the Design with all Standards and as may be required for the issuance of or compliance with any permits, licenses or approvals.

19.8 The Design-Builder will ensure that the Design-Builder's Consultant and all other Architects, Professional Engineers and other professionals performing professional services related to the Design and engaged directly or indirectly by the Design-Builder fulfill their duties and responsibilities to the standard of diligence, skill and care that such Persons would customarily provide in accordance with their professional and legal obligations in similar circumstances and in the same general geographic location as the Site. Any failure by any of the Design-Builder's Consultants or other Architects, Professional Engineers or professionals performing professional services in relation to the Design will not relieve the Design-Builder of any responsibility for ensuring that the Work is carried out in conformance with this Agreement including the Statement of Requirements, the Design and all Standards.

19.9 If the Design-Builder's Consultant's engagement is terminated, the Design-Builder will engage a new Design-Builder's Consultant to provide the Design. The Design-Builder will notify the Owner in writing before appointing or re-appointing the Design-Builder's Consultant, and the Design-Builder will not appoint any Design-Builder's Consultant to whom the Owner may reasonably object.

## 20. DESIGN PROCESS

20.1 Unless otherwise agreed by the Owner, the Design-Builder will submit Drawings and Specifications and supporting information to the Owner for review under the Review Procedure in accordance with the Statement of Requirements developed sequentially to full detail as follows:

- (a) Design Package A – Design Development Review/Resolution;
- (b) Design Package B – Foundation Building Permit Review/Resolution;
- (c) Design Package C – Building Permit Review/Resolution; and
- (d) Design Package D – Issued for Construction Review/Resolution

(each, a "**Design Package**" and collectively, the "**Design Packages**").

The Design-Builder will comply with the additional requirements applicable to each Design Package as set forth in Schedule 2 – Review Procedure.

20.2 Within 45 days after the Effective Date, the Design-Builder will deliver Design Package A to the Owner.

- 20.3 The Design-Builder will deliver Design Packages B, C, and D to the Owner by the relevant dates set forth in the Time Schedule.
- 20.4 After review and approval of the Design Packages by the Owner, the Design-Builder will finalize and complete the “issued for construction” Drawings and Specifications. The Design-Builder will provide two copies of the final “issued for construction” Drawings and Specifications, and any revisions, to the Owner together with a certificate from the Design-Builder’s Consultant that the “issued for construction” Drawings and Specifications conform to the requirements of this Agreement and Submittals from the pre-tender Drawings and Specifications stage (including to address comments received from the Owner).
- 20.5 The Design-Builder will provide all Drawings and Specifications on a flashdrive in AutoCAD DWG and Adobe PDF format acceptable to the Owner, acting reasonably.
- 20.6 The Design-Builder will comply with any requirements set out in the Statement of Requirements in relation to the stages and process for Design, including with respect to meetings, presentations, mock-ups and user groups.
- 20.7 Unless otherwise required by the Owner, the Design-Builder will provide and use, and make available to the Owner and representatives of the Owner, a secure and confidential internet-based system for the storage and exchange of Design documentation in electronic format acceptable to the Owner.

## 21. **OWNERSHIP OF DOCUMENTS**

- 21.1 The Design-Builder acknowledges and agrees that this Agreement contains intellectual property that is protected by copyright and that this intellectual property is intended to be used solely for the purposes of the Project. The Design-Builder will obtain prior written permission and will require the Design-Builder’s Consultant and any other Subcontractors to obtain prior written permission for any other use.
- 21.2 Copyright for the Design and Drawings belongs to the Design-Builder, the Design-Builder’s Consultant or other consultants who prepared them.
- 21.3 Plans, sketches, Drawings, graphic representations and Specifications, including computer generated designs, when prepared by the Design-Builder’s Consultant or other consultants are instruments of their service and will remain their property whether the construction for which they are made is executed or not.
- 21.4 Submission or distribution of the Design-Builder’s Consultants’ or other consultants’ plans, sketches, Drawings, graphic representations and Specifications to meet official regulatory requirements or for other purposes in connection with the Work is not to be construed as publication in derogation of their reserved rights.
- 21.5 The Owner may retain copies, including reproducible copies, of all plans, sketches, Drawings, graphic representations and Specifications and other material including the Record Drawings. The Design-Builder hereby grants to the Owner a non-exclusive, royalty-free, fully paid, world-wide, perpetual and irrevocable licence to use the Design and any and all such material for any purpose related to the use and ownership of the Facility and the Land (including any renovations, additions or alterations to the Facility), for completion of any Work in the event of termination of this Agreement and for reference purposes in connection with other operations, projects and facilities of the Owner. Such licence may be sublicensed, assigned, at the discretion of the Owner, to any third party who has or may acquire an interest or obligation related to the Facility, including for any facilities maintenance, life cycle repair/replacement or other services to the Owner or others in

relation to the Facility. The Design-Builder at the Owner's request, and prior to any payment after such request is made, will deliver to the Owner a consent and acknowledgement signed by the Design-Builder's Consultant confirming such licence.

21.6 Models and renderings furnished by the Design-Builder are the property of the Owner.

## 22. **ERRORS IN DESIGN**

22.1 The Design-Builder is responsible for the Design, including all errors, omissions or deficiencies in the Design.

22.2 The Design-Builder will give written notice to the Owner immediately upon becoming aware of any error, omission or deficiency in the Design.

22.3 The Design-Builder will remedy at its own cost any error, omission or deficiency identified in the Design, including any resulting error, omission or deficiency in the Design that results in defects or deficiencies in any part of the Construction that has been commenced or completed. The Design-Builder will ensure that such remediation will conform to the requirements of this Agreement.

## 23. **LABOUR AND PRODUCTS**

23.1 Unless otherwise expressly provided in this Agreement, the Design-Builder will provide and pay for all labour, products, materials, tools, equipment, machinery, water, heat, light, power, transportation and all other facilities, things and services (including services for Design) necessary for the performance of the Work in accordance with this Agreement.

23.2 All products, materials, equipment and machinery intended to be incorporated into the Work will be new unless otherwise expressly specified in this Agreement. For greater certainty, the Design-Builder will comply with the materials specifications set forth in the Statement of Requirements, including the requirement in Section 2.2 thereof that raw materials used by the Design-Builder in the Facility's Mass Timber products must be sustainably grown and not sourced from old growth forests. The Design-Builder will provide the Owner with chain of custody documentation for the sourcing of raw materials used in the Facility's Mass Timber products which demonstrates to the Owner's satisfaction, acting reasonably, that the wood was sustainably grown and not sourced from old growth forests before commencing any Work using such raw materials.

## 24. **SUBCONTRACTS**

24.1 The Design-Builder will preserve and protect the rights of the Owner under this Agreement with respect to any Work to be performed by a Subcontractor, so that the subcontracting does not prejudice the Owner's rights under this Agreement.

24.2 The Design-Builder will be responsible to the Owner for the performance of all Subcontractors and will require the Subcontractors to perform their work in accordance with the terms and conditions of this Agreement.

24.3 The Design-Builder will be as fully responsible to the Owner for acts and omissions of Subcontractors and of Persons directly or indirectly employed by them as for the acts and omissions of Persons directly employed by the Design-Builder.

24.4 Nothing contained in this Agreement will create any contractual relationship between the Owner and any Subcontractors or their officers, agents, employees or workers.

- 24.5 The Design-Builder will require every Subcontractor to observe the terms of this Agreement so far as they apply to that portion of the Work to be performed directly or indirectly by that Subcontractor. The Design-Builder will require that the terms of this Agreement that are applicable to the portion of the Work to be performed by a Subcontractor will form part of that Subcontract.
- 24.6 The Design-Builder will require that every Subcontract for designers and Subcontractors require such designers and Subcontractors, where requested by either the Owner or the Design-Builder, to attend any Dispute resolution process including discussions, negotiations, mediation or arbitration between the Design-Builder and the Owner; provide frank, candid and timely disclosure of relevant information and documentation; and, bona fide negotiations to resolve such Disputes.
25. **OTHER CONTRACTORS**
- 25.1 The Owner reserves the right to enter into separate contracts with Other Contractors in relation to the Project or to perform work itself. The Design-Builder will cooperate with and coordinate the Work with all concurrent construction activities by the Owner or Other Contractors on the Site or adjacent to the Site.
- 25.2 The Design-Builder will:
- (a) coordinate the Work with that of Other Contractors and connect the Work with the work of Other Contractors as applicable; and
  - (b) ensure that performance of the Work is carried out in accordance with the Time Schedule so that Other Contractors are not delayed in their work.
- 25.3 The Design-Builder will promptly report to the Owner any apparent deficiencies in Other Contractors' work that could affect the Work as soon as they come to the Design-Builder's attention, and will confirm such report in writing promptly.
- 25.4 Where a Change is required as a result of the coordination and connection of the work of Other Contractors or the Owner with the Work, the Changes will only be made as provided in Section 48.
- 25.5 The Owner will require Other Contractors to coordinate and schedule their construction activities at the Site in accordance with the reasonable instructions of the Design-Builder acting as "prime contractor" that are applicable to health and construction safety at the Site and that are in accordance with the *Workers Compensation Act* (British Columbia).
- 25.6 The Design-Builder acknowledges that other individuals working at the Site may be union or non-union and that the Owner wishes to ensure that labour peace is maintained. The Design-Builder will comply with all requirements of the Owner in respect of labour relations and the Design-Builder will take all reasonable precautions to avoid labour disruptions caused by, or contributed to by the Design-Builder, its Subcontractors or any Persons performing the Work. The Design-Builder will bear the sole cost and expense of preventing, avoiding or removing any matter or events giving rise to such a labour disruption.
- 25.7 The Owner will assure, where possible, that Other Contractors are bound to equivalent terms as those found in this Section 25.
- 25.8 Claims, disputes, and other matters in question between the Design-Builder and Other Contractors will be dealt with as provided in Section 64 provided the Other Contractors have reciprocal obligations. The Design-Builder will be deemed to have consented to arbitration of any dispute with any Other Contractor whose contract with the Owner contains a similar requirement to Section 64.

**26. ACCESS TO AND USE OF SITE**

- 26.1 Subject to the Site Plan and Project Management Plan and any limitations in this Agreement, the Owner grants to the Design-Builder a licence to enter and be upon the Site from the Site Occupation Date until Substantial Completion, to perform the Work that is required to be performed on the Site.
- 26.2 After Substantial Completion, the Owner will provide access to the Facility and the Site as reasonably required for completion of the Work and rectification of deficiencies including warranty deficiencies, taking into account the Owner's use and occupancy of the Facility and the Site.
- 26.3 After Substantial Completion, the Design-Builder will:
- (a) coordinate with the Owner to ensure timely completion of the Work and rectification of deficiencies including warranty deficiencies;
  - (b) comply with the Owner's requirements as set out in Section 34 with respect to dust, noise and vibration;
  - (c) minimize disruption to the Owner's use and occupancy of the Facility and will comply with all directions of the Owner with respect to timing, security and access for the rectification of deficiencies including warranty deficiencies; and
  - (d) comply with the security requirements of the Owner.
- 26.4 The Design-Builder will:
- (a) limit its activities to the areas within the Site which are identified in the Site Plan and Project Management Plan as required to perform the particular aspect of Work, unless the Design-Builder obtains permission to occupy or use other lands;
  - (b) not access any areas of the Site or adjacent properties, including airspace, which it is not permitted to access under the Site Plan or Project Management Plan, without the prior written permission of the Owner; and
  - (c) obtain any construction easements and permits that may be required for construction of the Project. When requested to do so by the Design-Builder, the Owner may at its discretion provide reasonable assistance to the Design-Builder in obtaining such construction easements and permits required for the construction of the Project but, in no circumstance will the Owner be required to incur any costs or make any payments.
- 26.5 The Design-Builder acknowledges that parking is available at the Site and agrees that the Design-Builder, the Subcontractors and their respective workers will not park on public streets within a 1km radius of the Site.

**27. PHASED CONSTRUCTION**

- 27.1 The Design-Builder will carry out the Construction in accordance with the Project Management Plan which will include, among other things:
- (a) all Site preparation;
  - (b) Construction of the Facility, including the requirements and timing for construction and commissioning (including all systems and equipment);

- (c) restricting Construction to the Facility until it is completed by the Design-Builder and made available to the Owner for occupancy;
- (d) not carrying out any Construction on the remainder of the Site until the Facility is completed by the Design-Builder and made available to the Owner for occupancy;
- (e) demolition (if any);
- (f) Site landscaping;
- (g) parking, access and traffic flows, including maintaining adequate vehicle, delivery and pedestrian access; and
- (h) compliance with all requirements of this Agreement,

and the Design-Builder will submit the Project Management Plan to the Owner within 30 days after the Effective Date and will not proceed until the Project Management Plan has received the notation "Reviewed" under Schedule 2 - Review Procedure. If the Design-Builder proposes revisions to the Project Management Plan, the Design-Builder will submit the proposed revised Project Management Plan to the Owner and will not proceed with revised Project Management Plan until it has received the notation "Reviewed" under Schedule 2 - Review Procedure.

27.2 The Design-Builder will:

- (a) comply with the reviewed Project Management Plan;
- (b) construct the Facility within the area of the Site indicated in the Site Plan;
- (c) install at least a 1.8 meter high fence around the perimeter of the area in which it is performing the Work and such hoarding and lighting as may be reasonably required by the Owner including any hoarding required to protect the public and separate the area of the Work from the other portions of the Site;
- (d) provide video surveillance on all sides of the Site;
- (e) perform all Construction activities within the areas of the Site provided in the Site Plan and Project Management Plan, except as approved by the Owner for any work required in other areas of the Site;
- (f) perform all Construction activities without blocking or disrupting vehicle, delivery or pedestrian access, except as may be permitted pursuant to the Project Management Plan;
- (g) cause the Design-Builder's personnel, Construction workers, Subcontractors and suppliers to enter or exit the Site only at the access routes indicated on the Site Plan and Project Management Plan, unless otherwise approved by the Owner;
- (h) not use any explosives without the Owner's consent;
- (i) take reasonable steps to ensure that Construction workers or suppliers do not smoke on any portion of the Site other than designated smoking areas;
- (j) provide a 24-hour hotline (and post the phone number in a prominent location on the Site) for:

- (i) Owner staff to notify the Design-Builder of any Construction related emergencies; and
- (ii) neighbours and passers-by to contact the Design-Builder,

and the Design-Builder will respond to any phone calls made on the hotline within one hour of receipt;

- (k) provide the neighbourhood committee with the name and contact information of a representative to direct their concerns;
- (l) provide a community liaison officer (who may be the same individual as the representative referred to in Section 27.2(k)) to provide a single point of contact regarding construction and development issues;
- (m) before commencing the Construction, prepare and implement in co-operation with the Owner a construction fire safety plan for the Project, which plan will describe emergency access routes to and from the Facility and the Site during an emergency.

27.3 If the Design-Builder performs any Construction outside of the area designated at the Site, the Design-Builder will comply with all policies and other requirements of the Owner.

## 28. **SIGNAGE**

28.1 The Design-Builder may erect signage at the Site during Construction to identify the Design-Builder and Subcontractors provided such signage and its location(s) is acceptable to the Owner, acting reasonably. The Design-Builder will also erect the Owner's signage as required by the Owner and in accordance with applicable Laws, including City of Colwood bylaws.

## 29. **USE OF SITE**

29.1 The Design-Builder will confine its construction machinery and equipment, tools, storage of materials and products, and the operations of workers to limits indicated in the Site Plan or Project Management Plan or by or under all applicable Laws, and will not unreasonably encumber the Site or other activities on the Site.

29.2 The Design-Builder will comply with the Owner's policies, procedures and instructions, including regarding parking, safety, harassment, fires, smoking, signs and advertisements.

29.3 The Design-Builder will not load or permit to be loaded any part of the Construction with a weight or force that endangers the safety of the Project.

29.4 The Design-Builder will ensure that the Work does not adversely impact the ongoing operations of the Owner, or any Person on behalf of the Owner (including, for certainty, any Other Contractor), near or adjacent to the Site.

29.5 The Design-Builder will confirm the location of all utilities and ensure that all of its labour force, employees, Subcontractors and any other workers at the Site:

- (a) are made aware of the location of all utilities in connection with the Project and the importance of avoiding damage to those underground utilities;
- (b) observe any instructions in connection with those utilities issued by the Owner on behalf of any applicable utility owners; and

- (c) protect all such utilities.

**30. CONDITIONS AT SITE/DISCLOSED DATA**

30.1 The Design-Builder acknowledges and agrees that:

- (a) it has received and reviewed a copy of all Site Reports;
- (b) it has had the opportunity to undertake examinations and investigations of the Site in order to satisfy itself as to Site conditions and the impact they could have on any or all of the Work (including Design and Construction), Contract Time and Contract Price;
- (c) only the objective geotechnical data set out in the Site Reports can be relied upon for accuracy (subject to any qualifications or conditions set out in such information or this Agreement) but such data cannot be relied upon for sufficiency, relevancy or interpretation;
- (d) neither the Owner, the Owner's Representative, the Owner's Consultant, the Payment Certifier nor any other Person on behalf of the Owner is in any way responsible or liable for the completeness, interpretation or accuracy of the Site Reports (except accuracy of objective geotechnical data identified in Section 30.1(c)) or for any variation between Site conditions actually encountered by the Design-Builder and those set out in the Site Reports; and
- (e) subject to Sections 30.3, 31 and 32, the Design-Builder is not entitled to any adjustment in the Contract Time or Contract Price, or to any other remuneration, compensation or damages whatsoever, in any way connected with Site conditions.

30.2 It is the Design-Builder's responsibility to have conducted its own analysis and review of the Project and, before the execution of this Agreement, to have taken all steps it considers necessary to satisfy itself as to the accuracy, completeness and applicability of any Disclosed Data upon which it places reliance and to assess all risks related to the Project. Except with respect to the accuracy of the objective geotechnical data identified in Section 30.1(c), the Design-Builder will not be entitled to and will not make (and will ensure that no Subcontractor makes) any claim against the Owner or any Indemnified Party, whether in contract, tort or otherwise including any claim in damages for extensions of time or for additional payments under this Agreement on the grounds:

- (a) of any misunderstanding or misapprehension in respect of the Disclosed Data;
- (b) that the Disclosed Data was incorrect or insufficient; or
- (c) that incorrect or insufficient information relating to the Disclosed Data was given to it by any Person other than the Owner,

nor will the Design-Builder be relieved from any obligation imposed on or undertaken by it under this Agreement on any such ground.

30.3 The Design-Builder, in order to design the Facility, is responsible for obtaining sufficiently accurate, complete and applicable geotechnical information necessary to properly design a foundation and structure of the Facility that is appropriate for the soils conditions. This may require supplementing the Disclosed Data. Accordingly, the Design-Builder is not entitled to any adjustment in the Contract Time or Contract Price, or to any other remuneration, compensation or damages whatsoever, in any way connected with Site conditions, including the matters described in Section 30.2 if it has failed to obtain sufficient geotechnical information necessary to prepare a Design that reasonably anticipates the soils conditions actually encountered.

30.4 If the Design-Builder is delayed in performing the Work as a result of inaccuracy in the objective geotechnical data provided in the Site Reports, the Design-Builder's entitlement to an extension of the Contract Time and reimbursement of costs will be determined in accordance with Section 52. If the Design-Builder is not delayed in performing the Work but incurs additional costs as a result of inaccuracy in the objective geotechnical data provided in the Site Reports, adjustment in the Contract Time or the Contract Price will be agreed upon or determined in accordance with Section 49.

### 31. **ARCHAEOLOGICAL ITEMS**

31.1 Upon discovery at the Site of any fossils (including fossils as defined in the *Lands Act* (British Columbia)), palaeontological finds, human remains (including ancestral remains), coins, articles of value or antiquity, including all heritage objects (as defined in the *Heritage Conservation Act* (British Columbia)), or any other archaeological finds, the Design-Builder will:

- (a) immediately notify the Owner;
- (b) take all steps not to disturb the item and, if necessary, stop Construction to the extent required if performing the Construction would endanger the object or prevent or impede its excavation;
- (c) take all necessary steps to preserve the item in the same position and condition in which it was found; and
- (d) comply with all Laws and all requirements of governmental authorities with respect to such discovery, including pursuant to the *Lands Act* (British Columbia) and the *Heritage Conservation Act* (British Columbia).

31.2 If the Design-Builder is delayed in performing the Work taking steps required under Section 31.1 or pursuant to the Chance Find Procedure, the Design-Builder's entitlement to an extension of the Contract Time and reimbursement of costs will be determined in accordance with Section 52. If the Design-Builder is not delayed in performing the Work but incurs additional costs as a result of taking steps required under Section 31.1 or pursuant to the Chance Find Procedure, adjustment in the Contract Time or the Contract Price will be agreed upon or determined in accordance with Section 49 (Valuation and Certification of Changes).

31.3 The Design-Builder will comply with the provisions of Schedule 11 - Chance Find Procedure.

### 32. **CONTAMINANTS AND ENVIRONMENTAL MANAGEMENT**

32.1 The Design-Builder acknowledges and agrees:

- (a) it has received and reviewed a copy of the report entitled "13997 210614 FINAL Parcel J CoR Report.pdf" dated June 14, 2021, prepared by Keystone Environmental Ltd. (the "**Environmental Report**");
- (b) it has had the opportunity to undertake examinations and investigations of the Site in order to satisfy itself as to Site conditions and the impact they could have on any or all of the Work (including Design and Construction), Contract Time, and Contract Price;
- (c) it is responsible for all management, removal, abatement, containment and disposal of Contaminants disclosed in or reasonably inferred from the Environmental Report; and

- (d) neither the Owner nor the Owner's Representative nor any other Person on behalf of the Owner is in any way responsible or liable for the completeness, interpretation or accuracy of the Environmental Report.
- 32.2 The Design-Builder acknowledges that the Owner has made no representation or warranty as to the absence or presence on, in or under the Site of any Contaminant. If the Design-Builder, after commencing the Work, encounters or has reason to believe in the existence of any Contaminant on, in or under the Site, the Design-Builder will at once take all reasonable steps, including suspension of the Work, as necessary to ensure that no individual or property suffers injury, sickness, death, damage or destruction as a result of exposure to, or the presence of, any Contaminant, and the Design-Builder will immediately report such Contaminant to the relevant governmental authorities and to the Owner.
- 32.3 If the Design-Builder is delayed in performing the Work due to discovery of Contaminants, other than those disclosed in or reasonably inferred from the Environmental Report, by taking steps required under Section 32.2, the Design-Builder's entitlement to an extension of the Contract Time and reimbursement of costs will be determined in accordance with Section 52. If the Design-Builder is not delayed in performing the Work but incurs additional costs due to discovery of such Contaminants, other than those disclosed in or reasonably inferred from the Environmental Report, adjustment in the Contract Time or the Contract Price will be agreed upon or determined in accordance with Section 49 (Valuation and Certification of Changes).
33. **SITE SAFETY**
- 33.1 The Design-Builder agrees to be the "prime contractor" for the purposes of all applicable occupational health and safety Laws, including the *Workers Compensation Act* (British Columbia), and the Design-Builder is responsible for filing any documents necessary to comply with the *Workers Compensation Act* (British Columbia), including a notice of project. The Design-Builder will comply with all requirements of the *Workers Compensation Act* (British Columbia) and any other occupational health and safety Laws, applicable to the Project, the Work or to the Site. The Owner will comply, and will cause Other Contractors to comply, with occupational health and safety requirements established by the Design-Builder to fulfil the Design-Builder's obligations as "prime contractor".
- 33.2 Prior to commencing the Work and as a condition of receiving payment on Substantial Completion and on Total Completion, the Design-Builder will provide the Owner with satisfactory written evidence of compliance by the Design-Builder with all requirements under the *Workers Compensation Act* (British Columbia), including payments of assessments due under it to WorkSafeBC. Without limiting the foregoing, the Owner may at any time require the Design-Builder to provide evidence of compliance with all requirements under the *Workers Compensation Act* (British Columbia), or payment of assessments due under it to WorkSafeBC, or both.
- 33.3 When required to do so by the Owner, the Design-Builder will provide the Owner with evidence of its compliance and compliance of any or all of its Subcontractors under Section 33.2.
- 33.4 Following the Site Occupation Date, the Design-Builder will coordinate health and safety for the Site for all activities performed by its workers as well as those of Subcontractors, utilities, inspectors, the Owner, Other Contractors and any others performing any activities at the Site.
- 33.5 The Design-Builder will establish and provide for the review by the Owner, by no later than 30 days after the Effective Date, a plan (the "**Health and Safety Plan**") that meets all applicable requirements of this Agreement with respect to health and safety at the Site and that addresses the safety of the Owner and others who may be on the Site or property in the vicinity of the Site, and the Design-Builder will implement such Health and Safety Plan (for clarity, in the form approved

by the Owner pursuant to the Review Procedure). The Design-Builder will provide safety fencing and hoarding as necessary to limit access to the Site in accordance with the Health and Safety Plan.

- 33.6 The Design-Builder will ensure that its Health and Safety Plan is consistent with, and accommodates any requirements of, the Owner's policies regarding safety and that it specifically addresses the safety of the Owner and others who may be on the Site or on property in the vicinity of the Site.
- 33.7 The Design-Builder will maintain and comply with the Health and Safety Plan in all material respects during execution of the Work.
- 33.8 Prior to any individual accessing the Site pursuant to this Agreement, the Design-Builder will provide health and safety orientation and information to such individual in accordance with its Health and Safety Plan.

34. **DUST, NOISE AND VIBRATION**

- 34.1 The Design-Builder will carry out its Construction to minimize dust, noise, vibration, noxious odours and fumes in accordance with applicable Laws, including City of Colwood bylaws.
- 34.2 Without limiting Section 34.1, the Design-Builder will discuss with the Owner any expected vibration from the Construction activities, and will carry out its Construction activities, so that dust, noise, vibration, noxious odours and fumes do not unreasonably and adversely affect the use of properties in the vicinity of the Site.

35. **TESTING AND COMMISSIONING**

- 35.1 The Design-Builder will prepare and deliver to the Owner, not less than 180 days before the Target Substantial Completion Date, for review under the Review Procedure, a detailed testing and commissioning plan (the "**Commissioning Plan**") that sets out the commissioning activities the Design-Builder intends to carry out to commission the Facility. The Commissioning Plan will include, among other things:
- (a) a description of the specific equipment and systems to be tested and commissioned and the associated commissioning requirements;
  - (b) a schedule, related to the Time Schedule, showing the timing of all testing and commissioning activities;
  - (c) a process for demonstrating that the CCI Designation Requirements are met by the Facility; and
  - (d) supporting documentation, including as appropriate:
    - (i) design calculations and/or assumptions; and
    - (ii) manufacturer's specifications.
- 35.2 The Design-Builder will retain a qualified independent commissioning agent (acceptable to the Owner, acting reasonably) to test and commission all equipment and systems in the Facility to demonstrate to the Owner that the Facility equipment and systems, including all major systems, are fully operational and that the Owner may occupy the Facility for its intended use as described in the Statement of Requirements. The commissioning agent will prepare a written report

addressed to the Owner to confirm the foregoing and confirm completion of all commissioning activities before, and as a condition of, Substantial Completion. Testing and commissioning will include, among other things, the following:

- (a) a complete and successful demonstration in real time under full stress conditions for all equipment and systems that require or are provided with redundancy or spare capacity;
- (b) end to end testing and commissioning of key equipment and systems including all audiovisual and communication systems (wireless communications, intercom, overhead paging, telephones), the security system and door controls; and
- (c) proper functioning of all equipment and systems and all points of integration between such equipment and systems.

**36. DOCUMENTS AT THE SITE**

36.1 The Design-Builder will keep at least one copy of the following documents at the Site in good order and available to the Owner:

- (a) a copy of this Agreement;
- (b) a copy of all development, building, electrical and plumbing permits and inspection reports;
- (c) up to date and current Drawings and Specifications, including any shop drawings prepared or obtained in respect of the Work;
- (d) the Project Management Plan;
- (e) the Time Schedule;
- (f) the Quality Management Plan
- (g) the Respect in the Workplace Plan;
- (h) the Health and Safety Plan; and
- (i) the Chance Find Procedure.

**37. CLEANUP AND FINAL CLEANING OF WORK**

37.1 The Design-Builder will maintain the Work in a tidy condition and free from the accumulation of waste products and debris, other than that caused by the Owner, Other Contractors or their employees.

37.2 The Design-Builder will promptly remove all surplus products, tools, construction machinery and equipment, and any waste and debris.

37.3 The Design-Builder will leave the Facility clean and suitable for occupancy and use by the Owner by the Substantial Completion Date.

37.4 The Design-Builder will leave the Site clean and suitable for occupancy and use by the Owner by the Substantial Completion Date.

37.5 In connection with any Work after the Substantial Completion Date, the Design-Builder will at all times leave the Work and Site clean and suitable for occupancy and use by the Owner but is not required to remove waste caused by the Owner.

38. **REMEDIAL WORK**

38.1 The Design-Builder will do all remedial work that may be required to make the several parts of the Work comply with the Statement of Requirements.

38.2 The Design-Builder will coordinate the Time Schedule for the Work to ensure that the requirement under Section 38.1 is kept to a minimum.

38.3 Remedial work will be performed by specialists familiar with the materials affected and will be performed in a manner to neither damage nor endanger any Work.

39. **REJECTED WORK**

39.1 Defective Work, whether the result of poor design, poor workmanship, use of defective equipment or materials, or damage through carelessness, default or other acts of the Design-Builder or any Subcontractor, and whether incorporated in the Work or not, which has been rejected by the Owner as failing to conform to any of the Statement of Requirements, the Design or the Standards, will be removed promptly by the Design-Builder and replaced and re-executed promptly and properly at the Design-Builder's expense.

39.2 If the Design-Builder does not remove such defective Work within the time fixed by written notice by the Owner, the Owner may remove them and store any materials at the expense of the Design-Builder.

39.3 Other Contractor's work destroyed or damaged by such removals or replacements will be made good by the Design-Builder promptly at the Design-Builder's expense.

40. **WARRANTY**

40.1 The Design-Builder will promptly correct, at its own expense, any Work that is not in accordance with this Agreement and any defects or deficiencies in the Work that appear during the period of:

(a) 24 months after the Substantial Completion Date (the "**Warranty Period**"); and

(b) in respect of the HDMSS, an additional 36 months (the "**Extended Warranty Period**").

40.2 The Design-Builder will correct defects or deficiencies at times and in a manner which causes as little inconvenience to the occupants of the Facility and the Owner's operations on and adjacent to the Site as is reasonably possible.

40.3 The Owner may carry out, or have others carry out, rectification work at the Design-Builder's cost if:

(a) the Owner gives notice to the Design-Builder of a defect or deficiency and the Design-Builder does not correct the defect or deficiency within a reasonable time, not to exceed 14 days, unless the nature of the defect or deficiency is such that it cannot be corrected within such time and the Owner, acting reasonably, agrees to an extension of such time; or

- (b) the nature of the defect or deficiency is such that it creates a risk to the health or safety of any occupant or user of the Facility, or risk of damage to the Facility, the environment or any property and the Owner gives notice to the Design-Builder within a reasonable time after the commencement or completion of the rectification work.
- 40.4 If the Owner carries out or has others carry out the rectification work pursuant to Section 40.3 the Design-Builder remains responsible for the Work (including the rectification work).
- 40.5 The Design-Builder will provide to the Owner extended warranties from Subcontractors where required by the Proposal Extracts or other provisions of this Agreement and any other extended warranties provided by Subcontractors.
- 40.6 The Design-Builder will correct, at its own cost, or pay the Owner for any damage resulting from the defects or deficiencies and the corrections required under Section 40.1.
- 40.7 Issuance of the Substantial Completion Certificate and the Total Completion Certificate, and final payment to the Design-Builder, do not relieve the Design-Builder from its responsibility under this Section 40.
- 41. **TITLE AND RISK**
- 41.1 Title to the Work will vest only in the Owner. Without prejudice to any of the rights of the Owner under this Agreement, title to the Work or any part of the Work will vest in the Owner at the earliest of:
  - (a) the time that the Work or part of it is at the Site;
  - (b) the time that the Owner has paid for the Work or part of the Work, including payment by the Owner for Pre-Ordered Materials, provided that this Section 41.1(b) will not apply to Materials Subject to a Deposit; and
  - (c) the time of installation or construction of the Work or part of the Work.
- 41.2 The Work will remain under the care, custody and control of the Design-Builder and at the risk of the Design-Builder until Substantial Completion or until such earlier date determined by the Owner, and notified in writing to the Design-Builder, for occupancy and use by the Owner. The Design-Builder will exercise all reasonable care to avoid loss of, or damage to, the Work.
- 41.3 The Design-Builder represents and warrants that title to the Work and any part of the Work will pass to the Owner free and clear of all liens, charges and encumbrances.

## **PART D - PAYMENT AND COMPLETION**

### **42. APPLICATIONS FOR PAYMENT**

- 42.1 The Design-Builder will make applications for payment in accordance with this Section 42.
- 42.2 Applications for payment will be:
  - (a) submitted to the Payment Certifier;
  - (b) dated the last day of the monthly period;

- (c) for the value, proportionate to the amount of the Contract Price, of Work performed, material delivered to the Site, Pre-Ordered Materials and Materials Subject to a Deposit purchased, up to and at the date of submission;
  - (d) unless agreed otherwise by the parties in writing, in an amount that means that the aggregate amount of payments of the Contract Price up to and including such payment shall not exceed the amount for that payment period set out in the Cumulative Not to Exceed Curve; and
  - (e) submitted no more than once per month during the performance of the Work.
- 42.3 Pending determination of the final result of any Change, the undisputed value of the Work performed as a result of a Change is eligible to be included with payment applications.
- 42.4 The Design-Builder will submit to the Payment Certifier for review, at least 14 days before the first application for payment, a Schedule of Values of the various parts of the Work, aggregating to the total amount of the Contract Price and divided so as to facilitate evaluation of applications for payment. The Schedule of Values will be consistent with the information set out in the breakdown of the Contract Price set out in Schedule 6 – Schedule of Prices and made out in such form and supported by such evidence as to its correctness as the Payment Certifier may reasonably require. The Payment Certifier will provide comments to the Design-Builder on the Schedule of Values, the Design-Builder will revise the Schedule of Values to address the comments, and so on, until such time as the Payment Certifier is satisfied with the Schedule of Values. The Schedule of Values will be used as the basis for all applications for payment, unless it is found at any time to be in error, in which case it will be corrected promptly by the Design-Builder in accordance with the Payment Certifier's directions. If the Schedule of Values is not finalized prior to an application for payment, the Payment Certifier may consider the applications for payment on the basis of the Schedule of Values under review and the Payment Certifier's comments on such Schedule of Values or such other basis as determined by the Payment Certifier.
- 42.5 When making applications for payment, the Design-Builder will submit a statement based upon the Schedule of Values. Claims for material and equipment delivered to the Site but not yet incorporated into the Work will be supported by such evidence as the Payment Certifier may reasonably require to establish the value and their delivery.
- 42.6 The Design-Builder will submit to the Payment Certifier for review, at least 14 days before the first application for payment, a table setting out the maximum aggregate amount of the Contract Price that is payable to the Design-Builder in each month following the Effective Date (the "**Cumulative Not to Exceed Curve**"). The Cumulative Not to Exceed Curve will be consistent with the values set forth in the Proposal Extracts.
- 42.7 Subject to any further information that may be required by the Owner, the application for payment will include:
- (a) the amount applied for in the application;
  - (b) the value of Work performed, material and equipment delivered to the Site and Pre-Ordered Materials and Materials Subject to a Deposit;
  - (c) payment amounts in respect of any Changes to which the Design-Builder is entitled under this Agreement, including under Section 42.3;
  - (d) any adjustments to the Contract Price under this Agreement;

- (e) the balance of the Contract Price to complete the Work;
- (f) the amount of Lien Holdback;
- (g) the amount of Performance Holdbacks;
- (h) the amount of any withholding or amount to be released under Section 42.9;
- (i) certification by the Design-Builder that the Project Binder includes documentation current to within at least 30 days prior to the application, including all inspection reports;
- (j) a statutory declaration of an officer or senior management employee of the Design-Builder stating that all accounts for labour, subcontracts, materials, construction machinery and equipment and other indebtedness which may have been incurred by the Design-Builder in performing the Work and for which the Owner might in any way be held responsible have been paid in full, except for amounts properly retained as a holdback or as an identified amount in dispute; and
- (k) a clearance letter from WorkSafeBC indicating that all current assessments due from the Design-Builder and all Subcontractors with subcontracts larger than \$50,000 in value have been paid.

42.8 Applications for release of the Lien Holdback will be made under Section 44 (Lien Holdback) and applications for any payment at Substantial Completion or Total Completion will be made under Section 46 (Substantial Completion and Total Completion).

42.9 It is a condition of payment that the following, and all documentation, certification and requirements of the following, are complete and up to date as of the date of each application for payment:

- (a) Health and Safety Plan;
- (b) Project Management Plan;
- (c) Time Schedule;
- (d) Quality Management Plan;
- (e) Respect in the Workplace Plan;
- (f) Project Binder updated as described in Section 47.3;
- (g) Chance Find Procedure;
- (h) issued for construction Drawings and Specifications, commencing with the first application for payment 180 days prior to the Target Substantial Completion Date; and
- (i) Commissioning Plan commencing with the first application for payment 180 days prior to the Target Substantial Completion Date.

The Design-Builder will not be required to re-submit documentation previously provided. The Design-Builder will identify any changes to previously submitted documentation and at the Owner's request submit revised documentation.

The Owner acknowledges that the requirement in Section 42.9(h) for issued for construction Drawings and Specifications does not require the Design-Builder to provide such Drawings and Specifications prior to the date such Drawings and Specifications are required to perform the Work and in accordance with the other provisions of this Agreement.

If any of the foregoing listed items, including the required certification, documentation and certification for each listed item, is not complete and up to date, then the Owner may for each listed item that is not complete and up to date withhold from payment the amount of 3% of the total application for payment. This withholding will apply to each month for which such item or items is not complete and up to date. The applicable withholding will be released with the next monthly payment when such item is completed and up to date. In addition, in relation to the Quality Management Plan if the Payment Certifier considers that the Design-Builder has not demonstrated that the Work to which the Quality Management Plan relates was satisfactorily performed then the Payment Certifier may in accordance with Section 42.11 reduce the payment by the amount of such unsatisfactory Work and by the cost of the required processes, testing, certification, auditing and documentation required to ensure compliance with the Quality Management Plan.

42.10 Notwithstanding the actual progress, the following will apply:

- (a) payment of the cost of the Bonds and cost of insurance will be made to the Design-Builder upon presentation of all bonding and insurance documentation required by this Agreement and upon presentation of satisfactory proof of payment of related fees or premiums; and
- (b) payment for mobilization identified in the Schedule of Values will be a maximum of 1% of the Contract Price and payment will be made in two parts: (1) 25% when the Design-Builder: (i) occupies the Site; and (ii) provides written confirmation to the Owner that all Key Individuals are available and fully involved in the Work; and (2) 75% when the Design-Builder: (i) has received the comment "REVIEWED" from the Owner on each of the Submittals identified in Appendix 2A - Submittals Requirements with a deadline for submission of 30 days or less after the Effective Date; (ii) has established a fully functional site office; (iii) construction equipment is on the Site; and (iv) construction has commenced.

42.11 The Payment Certifier, will, within 10 Business Days of receipt of the Design-Builder's application for payment, either:

- (a) accept the amount set out in the application for payment; or
- (b) adjust the amount of any payment to reflect the Payment Certifier's estimate of Work satisfactorily performed as of the date of the application for payment.

If the Payment Certifier amends the application for payment, the Payment Certifier will promptly notify the Design-Builder in writing and give reasons for the amendment. For certainty, nothing in this Section 42.11 is intended to limit the Payment Certifier's right pursuant to Section 42.4 to require the Design-Builder to amend the Schedule of Values.

42.12 Provided the Design-Builder is not in material default of any provision in this Agreement, the Owner will pay the Design-Builder within 10 Business Days of the Payment Certifier approving or adjusting the Design-Builder's application for payment in accordance with Section 42.11.

42.13 Whenever any sum of money is recoverable from or payable by the Design-Builder pursuant to this Agreement or is an amount for which the Owner may be liable on account of a default by the Design-Builder, the Owner may deduct or set off such sum from, or may reduce, any amounts then due or that may thereafter become due to the Design-Builder under this Agreement. Without

limiting the generality of the foregoing, the Owner may set-off any amounts for liquidated damages set out in this Agreement.

42.14 Without limiting any other withholding or set-off under this Agreement, the Owner may deduct from any payment to the Design-Builder under this Agreement the amount paid by the Owner to put the Design-Builder into compliance with the Insurance Conditions if the Design-Builder has defaulted in complying with the Insurance Conditions.

42.15 The following provisions will apply to Pre-Ordered Materials:

- (a) when submitting an application for payment for any Pre-Ordered Materials the Design-Builder will provide such evidence as the Payment Certifier may reasonably require to show that:
  - (i) clear and unencumbered title to the Pre-Ordered Materials will pass to the Owner upon payment by the Owner;
  - (ii) if the materials are stored at an off-Site storage facility owned by the Design-Builder, evidence confirming such ownership;
  - (iii) if the materials are stored at an off-Site storage facility that the Design-Builder leases or is otherwise owned by a third party, the landlord or owner of the off-Site storage facility has entered into a direct agreement in favour of the Owner (in a form satisfactory to the Owner) disclaiming any right to seize the Pre-Ordered Materials in exercising any distress rights;
  - (iv) the Pre-Ordered Materials are properly stored, labelled and identified as the property of the Owner; and
  - (v) the Pre-Ordered Materials are adequately insured, noting the interests of the Owner;
- (b) the Design-Builder will provide full access for the Owner and the Payment Certifier to the location where the Pre-Ordered Materials are stored and will pay any additional costs incurred by the Payment Certifier in visiting such location;
- (c) the Owner will not be required to pay any additional amounts in respect of Pre-Ordered Materials nor be required to pay for any replacement for such Pre-Ordered Materials if for any reason they are not delivered to Site;
- (d) all provisions of this Agreement (other than Section 42.16) shall apply to the Pre-Ordered Materials, including:
  - (i) Section 9 (Quality Management);
  - (ii) Section 39 (Rejected Work); and
  - (iii) Section 41 (Title and Risk);
- (e) the Design-Builder may propose adding items to the list of authorized Pre-Ordered Materials and shall provide the Owner with any information reasonably requested by the Owner to support such addition; and

- (f) the Owner may consent to or refuse such additions to the list of authorized Pre-Ordered Materials in its discretion, and may impose conditions on its consent.

42.16 The following provisions will apply to Materials Subject to a Deposit:

- (a) when submitting an application for payment for any Materials Subject to a Deposit the Design-Builder will provide such evidence as the Payment Certifier may reasonably require to show that:
  - (i) the Design-Builder has made all relevant payments to the Material Supplier in advance of receiving the relevant payment from the Owner; and
  - (ii) the Material Supplier has entered into a direct agreement with the Owner and the Design-Builder (in a form satisfactory to the Owner and the Design-Builder) pursuant to which the Owner has the right to step into the agreement in the place of the Design-Builder in the event of termination of this Agreement for any reason;
- (b) the Design-Builder will provide full access for the Owner and the Payment Certifier to the location where the Materials Subject to a Deposit are being manufactured or are stored and will pay any additional costs incurred by the Payment Certifier in visiting such location;
- (c) the Owner will not be required to pay any additional amounts in respect of Materials Subject to a Deposit nor be required to pay for any replacement for such Materials Subject to a Deposit if for any reason they are not delivered to Site;
- (d) all provisions of this Agreement (other than Section 42.15) shall apply to the Materials Subject to a Deposit, including:
  - (i) Section 9 (Quality Management);
  - (ii) Section 39 (Rejected Work); and
  - (iii) Section 41 (Title and Risk);
- (e) the Design-Builder may propose adding items to the list of authorized Materials Subject to a Deposit and shall provide the Owner with any information reasonably requested by the Owner to support such addition; and
- (f) the Owner may consent to or refuse such additions to the list of authorized Materials Subject to a Deposit in its discretion, and may impose conditions on its consent.

#### 43. **TAXES AND DUTIES**

- 43.1 The Contract Price is inclusive of all applicable customs duties and taxes (including PST), other than GST, in effect at the Effective Date.
- 43.2 The Design-Builder will remit all customs duties and taxes to the applicable governmental authority as and when required by the relevant Law and will without limiting Section 59 (Indemnification), indemnify and hold the Indemnified Parties harmless from and against any customs duties and taxes that the Design-Builder fails to remit as and when due, and from and against any costs and penalties and interest that may be levied against the Indemnified Parties.

- 43.3 Any increase or decrease in costs to the Design-Builder due to changes in taxes or duties that are in effect at the Effective Date of this Agreement will increase or decrease the Contract Price accordingly.
- 43.4 Where an exemption or refund of taxes, customs duties or excise taxes is applicable to this Agreement by way of the Design-Builder filing claims for, or cooperating fully with the Owner and the proper authorities in seeking to obtain such exemption or refund, the Design-Builder will make such applications and provide such cooperation.
- 43.5 Refunds that are properly due to the Owner and have been recovered by the Design-Builder will be promptly refunded to the Owner.

#### 44. **LIEN HOLDBACK**

- 44.1 The Owner will retain and release the Lien Holdback in accordance with the provisions of the *Builders Lien Act* (British Columbia).
- 44.2 For purposes of the *Builders Lien Act* (British Columbia), the Payment Certifier will be the payment certifier for this Agreement.
- 44.3 For purposes of progressive release of portions of the Lien Holdback in respect of Subcontracts, the Payment Certifier will be the payment certifier under the *Builders Lien Act* (British Columbia).
- 44.4 The Design-Builder will make application to the Payment Certifier for certification under the *Builders Lien Act* (British Columbia). As a condition of making any application and as a condition of any certification, the Design-Builder will provide the Payment Certifier with all information required by the Payment Certifier.
- 44.5 Without limiting Section 59, the Design-Builder will, at its sole risk and expense, do everything necessary, including through the institution, prosecution or defence of legal proceedings, to promptly discharge from title to the Site any claims of builder's lien, builder's liens or certificates of pending litigation by any Subcontractor or other Person claiming under or through the Design-Builder or Subcontractor. If the Owner becomes aware that any such claim of builder's lien, builder's liens or certificate of pending litigation is threatened or has been registered against title to the Site, the Owner may withhold out of the Lien Holdback or any other monies payable to the Design-Builder such amounts as the Owner reasonably considers necessary in order to secure the discharge of such claim of builder's lien, builder's liens or certificate of pending litigation. The Owner will cooperate with the Design-Builder in securing the discharge of any of the foregoing, subject to such arrangements being made as the Owner reasonably considers necessary before any such additional holdback monies are paid to any Person or into court. This Section 44.5 will not apply to a claim of builder's lien, builder's liens or certificates of pending litigation that arise due to the improper non-payment by the Owner.

#### 45. **PERFORMANCE HOLDBACKS**

- 45.1 In addition to the Lien Holdback and any amount retained under this Agreement (including for deficiencies under Section 46.4), the Owner will retain:
- (a) a holdback of \_\_\_\_\_ of the Contract Price (the "**LD Holdback**") if at any time after the date that is 15 months before the Target Substantial Completion Date, the Payment Certifier determines that the Substantial Completion Date is not reasonably likely to occur on or before the Target Substantial Completion Date;
  - (b) a holdback of \$500,000 (the "**LEED Holdback**");

- (c) a holdback of \_\_\_\_\_ (the “**Warranty Holdback**”); and
  - (d) a holdback of \$500,000 (the “**CCI Holdback**”)
- (collectively, the “**Performance Holdbacks**”).
- 45.2 The amount of the LD Holdback as set out in Section 45.1(a) will be divided by the Contract Price remaining to be paid to the Design-Builder after the date such holdback is determined to apply as set out in Section 45.1(a) to determine a percentage, and that percentage will be withheld from all payments due thereafter by the Owner. The percentage applicable to payments will be adjusted as required from time to time if the Contract Price is adjusted.
- 45.3 If, at any time after the Payment Certifier has made the determination set out in Section 45.1(a), the Design-Builder demonstrates to the Owner’s satisfaction that the Work has accelerated and the Substantial Completion Date is reasonably likely to occur on or before the Target Substantial Completion Date, the Owner will cease withholding amounts from the Design-Builder on account of the LD Holdback, provided that (a) if the Payment Certifier determines that the Substantial Completion Date will occur on or before the Target Substantial Completion Date, the amount of the LD Holdback withheld prior to such date will be repaid to the Design-Builder and otherwise it will continue to be held by the Owner until the date of release set out in Section 45.5; and (b) the Payment Certifier may, at any time thereafter, determine that the Substantial Completion Date is not reasonably likely to occur on or before the Target Substantial Completion Date, in which event the Owner may resume withholding on account of the LD Holdback as contemplated by Section 45.2.
- 45.4 The cumulative amount of the LEED Holdback, the Warranty Holdback and the CCI Holdback as set out in Sections 45.1(b), 45.1(c) and 45.1(d), respectively, will be divided by the Contract Price to determine a percentage, and that cumulative percentage will be withheld from all payments due by the Owner. The percentage applicable to payments will be adjusted as required from time to time if the Contract Price is adjusted.
- 45.5 The Owner will release the LD Holdback, less liquidated damages payable by the Design-Builder under Section 3.3 upon the achievement of Substantial Completion.
- 45.6 The Owner will release the LEED Holdback, less amounts retained as liquidated damages under Section 12, upon the achievement of LEED Gold Certification.
- 45.7 The Owner will release the Warranty Holdback, less deductions for amounts owing to the Owner, upon the completion of the Warranty Period and satisfaction of all obligations of the Design-Builder under Section 40.
- 45.8 “The Owner will release the CCI Holdback, less amounts retained as liquidated damages under Section 11.6, upon the earlier of:
- (a) receipt by the Owner of the CCI Designation; and
  - (b) 27 months after the Substantial Completion Date (or such later date as would apply if the final sentence of Section 11.6 applies) if the Owner has been unable to obtain the CCI Designation by that time solely by reason of an independent act or omission of the Owner or a delay by the Department of Canadian Heritage.
- 45.9 The Owner may apply the Performance Holdbacks against any amount owing by the Design-Builder to the Owner either prior to the Substantial Completion Date or during the Warranty Period. If any amount is applied against the Performance Holdbacks, the Design-Builder will at the Owner’s

option, acting reasonably, either pay such amount to the Owner to replenish the Performance Holdbacks then required to be withheld, or the Owner may withhold such amount from the next payment or payments due to the Design-Builder.

- 45.10 The Design-Builder will apply for payment of the applicable Performance Holdback and payment will be made in accordance with Section 42.
- 45.11 The Performance Holdbacks are not held in trust for the Design-Builder, property of the Design-Builder, earned by the Design-Builder or due and payable by the Owner until the conditions for release of the Performance Holdbacks are satisfied.
- 45.12 The Design-Builder as an alternative to the retention of the Performance Holdbacks may propose to the Owner to provide either a clean irrevocable standby letter of credit from a financial institution in Canada in a form acceptable to the Owner, or another form of performance security acceptable to the Owner. If the Owner accepts the proposal, the Owner will upon receipt of the performance security release the Performance Holdbacks to the Design-Builder.

46. **SUBSTANTIAL COMPLETION AND TOTAL COMPLETION**

46.1 The Design-Builder may make application to the Payment Certifier for the Substantial Completion Certificate at any time after it believes it has achieved Substantial Completion, as described in this Section 46 and has provided to the Owner and the Payment Certifier the items as required in Section 46.2(b).

46.2 **"Substantial Completion"** means that all of the following have been achieved:

- (a) the Payment Certifier has certified that substantial performance of the Work under the *Builders Lien Act* (British Columbia) has been achieved;
- (b) the Facility is ready for use by the Owner or is being used by the Owner for the purpose intended, and the following items have been submitted to the Owner and the Payment Certifier or completed by the Design-Builder:
  - (i) all equipment, mechanical and other systems are in place, commissioned, received required certifications, and are fully operational;
  - (ii) a complete Project Binder, provided that:
    - A. the commissioning reports may be preliminary; and
    - B. the inspections, certificates, guarantees and warranties, and certifications may exclude only the items of Work that remain to be completed;
  - (iii) up to date and current Drawings and Specifications;
  - (iv) maintenance and operating tools, replacement parts or products as specified in the Statement of Requirements;
  - (v) a clearance letter from WorkSafeBC indicating that all current assessments due from the Design-Builder and all Subcontractors have been paid;
  - (vi) a statement reconciling all Change Orders and claims under this Agreement with respect to the Work to the date of the application for Substantial Completion;

- (vii) all approvals necessary for the Project from local authorities having jurisdiction;
  - (viii) an occupancy permit for the Facility as required from local authorities having jurisdiction;
  - (ix) a statutory declaration of an officer or senior management employee of the Design-Builder stating that all accounts for labour, subcontracts, materials, construction machinery and equipment and other indebtedness which may have been incurred by the Design-Builder in performing the Work and for which the Owner might in any way be held responsible have been paid in full, except for amounts properly retained as a holdback or as an identified amount in dispute;
  - (x) demonstration and training of all mechanical and electrically operated devices to the Owner's operating and maintenance staff;
  - (xi) all training required by the Statement of Requirements;
  - (xii) the written opinion from the Design-Builder's Consultant in respect of the CCI Designation Requirements and the CCI Designation, as required by and in accordance with Section 11.3;
  - (xiii) the LEED project checklist and written opinion, as required by and in accordance with Section 12.2;
  - (xiv) evidence that the Facility has achieved RHFACT<sup>TM</sup> Gold Certification, as required by and in accordance with Section 13.4;
  - (xv) the BC Hydro energy modelling compliance checklist, as required by and in accordance with Section 14.3;
  - (xvi) the written report from the commissioning agent, as required by and in accordance with Section 35.2;
  - (xvii) the requirements of Section 37 (Cleanup and Final Cleaning of Work) have been fulfilled to the extent required by the Substantial Completion Date; and
  - (xviii) any other conditions specified in this Agreement with respect to achieving Substantial Completion;
- (c) a comprehensive deficiency list, including an estimated value for each item, has been submitted to the Payment Certifier by the Design-Builder which may be supplemented by the Payment Certifier and the Owner's Consultant, each acting reasonably; and
- (d) a schedule for completion of all remaining Work has been submitted to the Owner by the Design-Builder.

46.3 The Payment Certifier, in cooperation with the Owner and the Owner's Consultant and with input from the Design-Builder's Consultant, will, not later than 10 days after the receipt of an application from the Design-Builder for the Substantial Completion Certificate, review and assess the Work to verify that the application and the Work conform to the requirements set out in Section 46.2. The Payment Certifier will, not later than seven days after the review, notify the Design-Builder of approval, or the reasons for disapproval, of the application. In the event of disapproval, the Design-Builder will rectify all matters that prevent the issuance of the Substantial Completion Certificate and the Payment Certifier will within seven days after notice from the Design-Builder of rectification,

approve or disapprove of the application, and so on, until such time as the Payment Certifier determines that Substantial Completion has been achieved. When the Payment Certifier determines that Substantial Completion has been achieved, the Payment Certifier will issue the Substantial Completion Certificate. Following the issuance of the Substantial Completion Certificate, the Payment Certifier, with input from the Design-Builder, will establish a reasonable date by which work still to be satisfactorily performed or replaced as specified in the list of deficiencies and for Total Completion will be completed. The Design-Builder will be responsible for all costs of any additional reviews by the Owner's Consultant or the Payment Certifier after the first review that are necessary under this Section, where such additional reviews reveal that previously identified deficiencies or non-conformances to the requirements set out in Section 46.2 have not been corrected or completed in a manner satisfactory to the Owner's Consultant and the Payment Certifier. Such costs will be deducted from any monies then due to the Design-Builder.

- 46.4 The Owner may retain out of the amount due and owing to the Design-Builder upon Substantial Completion:
- (a) without duplication of any amounts withheld under Section 46.4(c), any sums required by Law to satisfy any liens against the Work; and
  - (b) an amount determined by the Payment Certifier to be equal to two times the estimated value of the Work as determined by the Payment Certifier that is still to be satisfactorily performed or rectified or replaced to address the issues specified in the list of deficiencies; and
  - (c) any amount withheld pursuant to Section 44.5.
- 46.5 No payment will be made to the Design-Builder from amounts withheld under Section 46.4(b) until the completion or rectification or replacement of all the deficiencies and incomplete work specified in the deficiency list, provided that where the Design-Builder is unable to complete, rectify or replace an item on the deficiency list due to circumstances outside its control, the Owner will release the amounts withheld under Section 46.4(b) on account of all other deficiencies upon the completion, rectification or replacement of all such deficiencies and incomplete work.
- 46.6 The Design-Builder will perform the work specified in the list of deficiencies at times and in a manner which causes as little inconvenience to the occupants of the Facility and the Owner's operations on and adjacent to the Site as is reasonably possible.
- 46.7 The Owner may carry out, or have others carry out, the work specified in the list of deficiencies at the Design-Builder's cost if:
- (a) the Design-Builder does not complete the work by the date established by the Payment Certifier in Section 46.3 and if the Owner gives notice to the Design-Builder and the Design-Builder does not complete, correct or replace the defect, deficiency or incomplete work within a reasonable time, not to exceed 14 days, unless the nature of the defect, deficiency or incomplete work is such that it cannot be completed or corrected within such time and the Owner, acting reasonably, agrees to an extension of such time; or
  - (b) the nature of the work is such that it creates a risk to the health or safety of any occupant or user of the Facility, or risk of damage to the Facility, the environment or any property and the Owner gives notice to the Design-Builder within a reasonable time after the commencement or completion of the rectification work.
- 46.8 If the Owner carries out or has others carry out the work pursuant to Section 46.7 the Design-Builder remains responsible for the work.

- 46.9 The Design-Builder will correct, at its own cost, or pay the Owner for any damage resulting from the work specified in the list of deficiencies.
- 46.10 The Design-Builder may make application to the Payment Certifier for the Total Completion Certificate at any time it believes it has achieved Total Completion as described in Section 46.11 and has provided to the Owner and the Payment Certifier the items as required in Section 46.11(d).
- 46.11 “**Total Completion**” means that all of the following have been achieved:
- (a) the entire Work has been performed to the requirements of this Agreement other than:
    - (i) work required to be performed under Section 40 and
    - (ii) the required documents for LEED Gold Certification have been compiled and submitted, as required by and in accordance with Section 12.1(d);
  - (b) all deficiencies specified in the deficiency list(s) have been rectified or completed to the Owner’s satisfaction;
  - (c) the requirements of Section 37 have been fulfilled;
  - (d) the following items have been submitted by the Design-Builder to the Payment Certifier and the Owner and are acceptable to the Owner:
    - (i) all Submittals, including certified Record Drawings in accordance with Section 47 (Project Binder and Record Drawings)
    - (ii) the final Project Binder, including final commissioning reports, final inspections (structural, environmental, etc.) and deficiency reports;
    - (iii) a statutory declaration of an officer or senior management employee of the Design-Builder stating that all accounts for labour, subcontracts, materials, construction machinery and equipment and other indebtedness which may have been incurred by the Design-Builder in performing the Work and for which the Owner might in any way be held responsible have been paid in full, except for amounts properly retained as a holdback or as an identified amount in dispute, dated at least 45 days after the date of substantial performance under the *Builders Lien Act* (British Columbia);
    - (iv) a written statement of the Design-Builder that all claims for payment for Work done under this Agreement including claims and Change Orders have been presented to the Owner;
    - (v) a clearance letter from WorkSafeBC indicating that all current assessments due from the Design-Builder and all Subcontractors have been paid; and
    - (vi) certification, acceptable to the Owner, that all taxes, employment assistance payments, Canada Pension Plan contributions, duties, royalties and all other monies required to be paid by Law have been paid in full.
- 46.12 Upon receipt by the Payment Certifier of the Design-Builder’s application for the Total Completion Certificate:

- (a) the Payment Certifier will, subject to the conditions contained in Section 46.11, and not later than 10 days after the receipt of an application from the Design-Builder for the Total Completion Certificate, review and assess the Work to verify that the application and the Work conform to the requirements set out in Section 46.11;
- (b) the Payment Certifier will, not later than seven days after the review contemplated in Section 46.12(a), notify the Design-Builder of approval, or the reasons for disapproval, of the application. In the event of a disapproval, the Design-Builder will rectify all matters that prevent the issuance of the Total Completion Certificate and the Payment Certifier will within seven days after notice from the Design-Builder of rectification, review and assess the Work and approve or disapprove of the application, and so on, until such time as the Payment Certifier determines that Total Completion has been achieved; and
- (c) the Design-Builder will be responsible for all costs of additional reviews required for by Section 46.12(b), such costs to be deducted from the monies due to the Design-Builder, where any additional review undertaken by the Owner's Consultant or the Payment Certifier pursuant to this Section reveals that previously identified deficiencies have not been corrected in a manner satisfactory to the Payment Certifier.

When the Payment Certifier determines that Total Completion has been achieved, the Payment Certifier will issue the Total Completion Certificate and certify for payment the monies due to the Design-Builder under this Agreement, less any amount still retained for the Lien Holdback or the Performance Holdbacks, amounts withheld under Section 44.5 or any amount set-off in accordance with this Agreement. The date of Total Completion will be as stated in the Total Completion Certificate.

- 46.13 No payment made by the Owner under this Agreement, or partial or entire use or occupancy of the Work by the Owner, will constitute an acceptance of Work not in accordance with the requirements of this Agreement.
- 46.14 By issuing any certificate, the Owner, the Owner's Consultant and the Payment Certifier do not guarantee, or otherwise become liable or responsible in any way for, the correctness or completeness of the Work, including the Design, and no certificate makes the Owner, Owner's Consultant or the Payment Certifier in any way responsible or liable for adequacy of the Design or for the Work, all of which remain the responsibility of the Design-Builder.
- 46.15 As of the date of Total Completion, the Design-Builder expressly waives and releases the Owner from all claims against the Owner, including those that might arise from the negligence or breach of this Agreement by the Owner, except those made in writing prior to the Design-Builder's application for payment upon Total Completion and still unsettled and those arising in connection with the obligations of either party to be performed after Total Completion.
- 46.16 In the event of conflict between the provisions of this Section 46 and any other Section of this Agreement, the provisions of this Section 46 govern.

**47. PROJECT BINDER AND RECORD DRAWINGS**

- 47.1 The Design-Builder will prepare and provide to the Owner a set of documentation that is bound in one or more binders (the "**Project Binder**").
- 47.2 The Project Binder will include the following:
  - (a) commissioning reports satisfactory to the Owner;

- (b) all inspections, certifications, guarantees and warranties;
  - (c) maintenance manuals and operating instructions;
  - (d) certification by all testing, cleaning or inspection authorities or associations;
  - (e) confirmation of the Design-Builder's Consultant in accordance with Section 19.3(b);
  - (f) copies of all warranties and guarantees from Subcontractors; and
  - (g) all other documentation that is reasonably required by the Owner or by any party on behalf of the Owner to operate and maintain the Facility.
- 47.3 The Project Binder will be updated on a monthly basis with all documentation related to Work completed up to that date is updated. The Design-Builder will provide and update one copy of the Project Binder, and will include one electronic file on a flashdrive, unless directed to use a different format by the Owner, acting reasonably.
- 47.4 Within 60 days after achieving Substantial Completion, the Design-Builder will provide to the Owner the following:
- (a) two complete sets of paper print Record Drawings, signed and sealed by the Design-Builder's Consultant, showing the as-built Work and identified in bold letters with the words "CERTIFIED AS-BUILT"; and
  - (b) one complete copy of the Record Drawings on a flashdrive in both BIM and Adobe PDF format acceptable to the Owner, acting reasonably.

## **PART E – CHANGES**

### **48. CHANGES**

- 48.1 The Owner, without invalidating this Agreement, may require Changes, with the Contract Price and Contract Time adjusted in accordance with Section 49. The Owner may issue any Change Order or Change Directive, which can include a stop Work order or resume Work order, to the Design-Builder's Representative or to any other Person authorized by the Design-Builder to receive a Change Order.
- 48.2 No Change will be made without a Change Order or Change Directive from the Owner.
- 48.3 The Design-Builder will not be entitled to a Change Order or Change Directive, or to any adjustments to the Contract Price or the Contract Time, for any Change for which the Design-Builder has not, prior to commencing the performance of a Change, obtained from the Owner a Change Order or Change Directive except where expressly allowed in this Agreement at Sections 31.2 and 32.2.
- 48.4 The Owner may, at any time, require the Design-Builder to assess the impact of a proposed Change on the Contract Price and the Contract Time and the Design-Builder will provide the Owner with such assessment within 10 days after the Owner's request or such other time as may be agreed by the Owner, acting reasonably.

### **49. VALUATION AND CERTIFICATION OF CHANGES**

- 49.1 The value of any Change will be determined by one or more of the following methods:

- (a) by estimate and acceptance of a lump sum; or
- (b) by unit prices or fee rates agreed upon (and which may include a maximum upset price).

49.2 The following process will be followed for Changes:

- (a) where a Change is proposed or required by the Owner, the Design-Builder will promptly, and in any case within 10 days after the Change is proposed or required by the Owner, present to the Owner its claims for any adjustment to the Contract Price or the Contract Time that arise from the Change;
- (b) where the Design-Builder claims a Change in Contract Price, the Design-Builder will provide a full breakdown of labour, material and other cost information;
- (c) where the Owner and Design-Builder agree to the Change, including adjustments in the Contract Price and Contract Time, or to the method to be used to determine the adjustments, such Change will be effective when recorded in a Change Order; and
- (d) the value of the Work performed as the result of a Change Order will be included in payment applications.

49.3 In the case of Changes to be paid for under Section 49.2(c), the form of presentation of costs and methods of measurement will be agreed to by the Owner and the Design-Builder before proceeding with the Change. The Design-Builder will keep accurate records of quantities or costs as agreed upon and will present an account of the costs of the Change, together with vouchers where applicable, at least once each month during performance of the Change, and will present a final account upon completion of the Change.

49.4 If the methods of valuation, measurement and value of any Change or any adjustment to the Contract Time cannot be promptly agreed upon, and in any case within 10 days after the proposed Change, and the Change is required by the Owner in writing to be proceeded with, then the Change will be performed by the Design-Builder and the value of the Change and adjustment to the Contract Time will be determined in accordance with the Dispute resolution process described in Section 64 by determining the cost of the Change in accordance with the Section 50 (other than Sections 50.1 and 50.4) and by determining the adjustment of the Contract Time as a reasonable time taking into account the critical path.

49.5 It is intended in all matters involving Changes that both the Owner and the Design-Builder will act promptly and in accordance with the times set out in this Section 49.

## 50. DETERMINATION OF COST

50.1 Subject to Section 50.2 whenever it is necessary for the purposes of this Agreement to determine the cost of a Change, the cost will be the amount agreed upon by the Design-Builder and the Owner within a reasonable time after the issue arises in any given instance.

50.2 If the Design-Builder and the Owner cannot agree as to the cost of the Change as contemplated in Section 50.1, the sole cost to which the Design-Builder will be entitled for the Change will be equal to the aggregate of:

- (a) all reasonable and proper amounts actually expended by or legally payable by the Design-Builder in respect of the labour, equipment or material (supported by invoices, purchase orders, timesheets and other customary industry documentation) that are directly

attributable to the subject matter of the Change and that are within one of the classes of expenditures described in Section 50.3; plus

- (b) to cover other costs, including overhead and profit, the following applicable markup on the amounts charged pursuant to Section 50.2(a).
  - (i) 5%, when the expenditure is a payment to a Subcontractor pursuant to Section 50.3(a); or
  - (ii) 10% when the Design-Builder performed the Change.

50.3 Classes of incremental expenditure that are allowable for the Work that is the subject matter of the Change (all without additional markups except as otherwise noted in Section 50) for the purposes of Section 50.2 are:

- (a) payments to Subcontractors, including a maximum aggregate markup of 10% on the direct labour, equipment and material costs of the Subcontractors who directly perform the Work;
- (b) wages, salaries and reasonable and traveling expenses of employees of the Design-Builder while they are actually and properly engaged on the Work, other than wages, salaries, bonuses, reasonable living and travelling expenses of personnel of the Design-Builder generally employed at the head office, or at a general office, of the Design-Builder unless such personnel is engaged at the site of the Work, with the approval of the Owner;
- (c) payments for materials necessary for and incorporated in the Work or necessary for and consumed in the performance of the Work;
- (d) payment for equipment necessary for and incorporated in the Work;
- (e) payments for tools, other than tools customarily provided by tradespersons, necessary for and used in the performance of the Work;
- (f) payments for preparation, inspection, delivery, installation, commissioning and removal of equipment and materials necessary for the performance of the Work;
- (g) assessments payable under any statutory scheme relating to workers compensation, unemployment insurance or holidays with pay;
- (h) payments for renting equipment (but not tools) and allowances for equipment (but not tools) owned by the Design-Builder, necessary for the performance of the Work, provided that such payments or allowances are reasonable or have been agreed to by the Design-Builder and the Owner; and
- (i) other payments, made with the prior approval of the Owner, that are necessary for the performance of the Work, as determined by the Owner.

50.4 If the Design-Builder and the Owner cannot agree as to the cost of labour, equipment or material as contemplated in Section 50.1, and the Owner considers that a Change or series of related Changes may exceed \$50,000, the Owner may require the Design-Builder, and the Design-Builder will, obtain a minimum of three competitive quotations or tenders for all or any part of such Change or Changes as directed by the Owner.

50.5 The applicable markup set out in this Section 50 will apply to any credit to the Owner for reductions in the costs relating to a Change. Where both increases and reductions in costs relate to a Change, the applicable markup will apply to the net increase or reduction in costs.

## 51. CHANGE DIRECTIVE

51.1 The Owner may issue a Change Directive to the Design-Builder directing the Design-Builder to proceed with a Change. The Design-Builder will proceed with the Change and the valuation and adjustments to the Contract Price and the Contract Time will be made as soon as reasonably possible after the implementation of the Change in the same manner as a Change for which a Change Order would be issued under this Agreement.

51.2 The Owner may issue Change Directives at any time, including prior to commencing the process for a Change Order or if there is a Dispute in relation to a Change or Change Order (including a Dispute as to whether there is a Change).

## PART F – DELAYS

### 52. DELAYS

52.1 If the Design-Builder is delayed in performing the Work as a direct result of a failure of the Owner to provide access to the Site, or a material breach by the Owner of the terms of this Agreement or by an order issued by any court or public authority having jurisdiction (providing such order was not issued as the result of any act or fault of the Design-Builder or a Subcontractor), or the events referred to in Sections 30.4, 31.2 or 32.3, then:

- (a) the Contract Time will be extended for such reasonable time, taking into account the critical path as agreed by the Owner and the Design-Builder, acting reasonably, and the Design-Builder will be reimbursed for any costs directly incurred by it as the result of such delay, determined in accordance with Section 50; or
- (b) if the Owner determines that the Target Substantial Completion Date can still be met and requests in writing that the Design-Builder accelerate the Work, the Design-Builder will accelerate its efforts to meet the Target Substantial Completion Date as directed by the Owner. The Design-Builder will be reimbursed for all reasonable and direct costs plus the markup set out in Section 50.2(b) incurred by it as a result of undertaking such acceleration efforts.

52.2 If the Design-Builder is delayed in performing the Work by an event of Force Majeure then:

- (a) the Contract Time will be extended for such reasonable time taking into account the critical path, as agreed by the Owner, and the Design-Builder acting reasonably; or
- (b) if the Owner determines that the Target Substantial Completion Date can still be met and requests in writing that the Design-Builder accelerate the Work, the Design-Builder will accelerate its efforts to meet the Target Substantial Completion Date as directed by the Owner. The Design-Builder will be reimbursed for all reasonable and direct costs plus the markup set out in Section 50.2(b) incurred by it as a result of undertaking such acceleration efforts.

Except as provided in Section 52.2(b) for acceleration of the Work required by the Owner, the Design-Builder will not be entitled to any costs incurred in relation to the Force Majeure or delays arising from the Force Majeure.

- 52.3 If the Design-Builder is delayed in the performance of the Work for any reason other than that for which an extension of time is permitted under this Section 52 or if the Design-Builder does not perform the Work substantially in accordance with the Time Schedule to meet the Target Substantial Completion Date, the Design-Builder will at its cost accelerate the Work to meet the Target Substantial Completion Date.
- 52.4 The Design-Builder is not entitled to any extension of time or any reimbursement of costs for delay under this Section 52 unless written notice is given to the Owner not later than seven days after the date that the Design-Builder becomes aware of the event causing the delay. In the case of a continuing cause of delay only one notice is necessary. The notice will include the reason for the delay, the justification under this Agreement for the claim and an estimated value for the claim including all impacts of the delay and all steps taken or reasonably available to mitigate the delay and impact. The Design-Builder will provide a full, detailed, and organized account of the delay and amount claimed, including any supporting information or documentation, as required by the Owner, the Owner's Consultant or the Payment Certifier before any delays or impacts will be considered. The information and documentation must be presented promptly to the Owner, and in any event, no later than 30 days or such later date as the parties may agree, after the date on which the Design-Builder delivered notice, and in the event of a continuing delay such information and documentation must be updated every 30 days. No such account or update will be deemed to extend the time for delivery of notice, or revive a claim that has been waived. The Design-Builder waives any claim for extension of Contract Time or adjustment to the Contract Price, or any other compensation, expenses, loss or damages incurred as the result of a delay unless the Design-Builder provides such notice of the delay within the time period specified and provides the account of the delay and amount claimed and all required updates within the time periods specified.
- 52.5 In the case of any delay under Section 52.1 or Section 52.2 the Design-Builder will use all reasonable efforts to mitigate the costs and impacts of the delay including removing the cause of the delay as promptly as practicable such that the Time Schedule is maintained and that acceleration efforts, if requested by the Owner, are minimized.

## **PART G – SUSPENSION AND TERMINATION**

### **53. NON-DEFAULT SUSPENSION/TERMINATION**

- 53.1 Notwithstanding that the Design-Builder may not be in default of the terms of this Agreement, if conditions arise which in the Owner's reasonable opinion make it necessary, the Owner may suspend performance of the Work or terminate this Agreement by giving five days' written notice to that effect to the Design-Builder and the suspension or termination is effective in the manner specified in the notice.
- 53.2 Without limiting Section 53.1, the Owner may, if it determines that there is an emergency, by notice to the Design-Builder, do either or both of the following:
- (a) suspend the Work whenever in its opinion such suspension may be necessary to ensure the safety or life of others or of the Work or neighbouring property; or
  - (b) make Changes, and order, assess and award the cost of such Changes that are extra to the Contract Price in accordance with Section 49 and Section 50 as determined to be necessary.
- 53.3 The Owner will within two Business Days after a Change under Section 53.2(b) confirm in writing any Change instructions and if a Change has been performed by order of the Owner, the Design-Builder retains its right to claim the value of such Change.

- 53.4 The Design-Builder upon receiving notice of suspension or termination from the Owner will immediately suspend all operations except those, which, in the Design-Builder's reasonable opinion, are necessary to ensure the safety of personnel and the public or for the care and preservation of the Work and materials. Subject to any directions in the notice of suspension or termination, the Design-Builder will discontinue ordering materials, will not enter into any further Subcontracts (except such Subcontracts as are necessary for the safety of personnel or for the care and preservation of the Work) and will make every reasonable effort in the event of termination to cancel existing Subcontracts and orders (excluding Subcontracts and orders with any Material Suppliers that have executed a direct agreement described in Section 42.16(a) with Owner and the Design-Builder) on the best terms available.
- 53.5 During the period of suspension the Design-Builder will not remove from the Site any of the Work, or any material, without the prior written consent of the Owner.
- 53.6 If the period of suspension is 30 days or less, the Design-Builder, upon the expiration of the period of suspension, will resume the performance of the Work and will be paid for all costs reasonably incurred by the Design-Builder in complying with the suspension, determined in accordance with Section 50 and for costs reasonably incurred for acceleration of the Work so that Substantial Completion is achieved by the Target Substantial Completion Date where the Owner requires such acceleration by written notice to the Design-Builder. If the Owner does not require the acceleration of the Work, or if it is not possible for the Design-Builder, using all reasonable efforts, to achieve Substantial Completion by the Target Substantial Completion Date despite an intended acceleration of the Work, the Owner and the Design-Builder will, acting reasonably, agree on a new Target Substantial Completion Date.
- 53.7 If the period of suspension is greater than 30 days and, before 120 days after the date of the notice of suspension, the Owner and the Design-Builder agree to continue with and complete the Work, the Design-Builder will resume operations and complete the Work in accordance with any terms and conditions agreed upon by the Owner and the Design-Builder and the Design-Builder will be paid for all costs reasonably incurred by the Design-Builder in complying with the suspension, determined in accordance with Section 50.
- 53.8 If the period of suspension is greater than 30 days and the Owner and the Design-Builder do not agree to continue with and complete the Work, or they fail to agree on the terms and conditions upon which the Design-Builder is to resume operations and complete the Work, before 120 days after the date of the notice of suspension, this Agreement will be deemed to have been terminated.
- 53.9 If this Agreement is terminated pursuant to this Section 53:
- (a) the Owner will pay the Design-Builder:
    - (i) in accordance with this Agreement, for all Work performed and for all of the Design-Builder's obligations under Subcontracts that it was unable to cancel, or asked by the Owner not to cancel, less any payments made by the Owner prior to termination; and
    - (ii) all costs reasonably incurred by the Design-Builder in complying with the suspension or termination order, determined in accordance with Section 50, less any costs already paid to the Design-Builder pursuant to Section 53.6; and
  - (b) the Owner will be entitled to:
    - (i) take possession of the Work or any part of the Work;

- (ii) take possession of the Drawings and Specifications and make use of them in accordance with the rights granted under this Agreement; and
- (iii) finish the Work or any part of the Work by whatever reasonable method the Owner may consider expedient.

53.10 The Design-Builder's obligations as to quality, correction and warranty of any portion of the Work performed prior to termination continue in force after termination under this Section 53.

53.11 The Design-Builder, by giving written notice to the Owner, may suspend performance of the Work to the extent the Work is stopped for a period in excess of 30 days by an order of any court or public authority having jurisdiction through no act or fault of the Design-Builder or of anyone employed by it.

#### 54. **DEFAULT AND TERMINATION OF AGREEMENT**

54.1 The Owner may give written notice to the Design-Builder of default under this Agreement if the Design-Builder:

- (a) is adjudged bankrupt, makes a general assignment for the benefit of creditors, or a receiver is appointed on account of its insolvency, or fails to make payment to creditors when payment is due;
- (b) abandons the Work;
- (c) breaches a material term of this Agreement;
- (d) makes a material misrepresentation of a representation or warranty set out in this Agreement;
- (e) has delivered a statutory declaration in support of application for a payment under this Agreement that was false or materially inaccurate; or
- (f) has made an assignment of this Agreement without the required consent of the Owner.

54.2 If a default referred to in Section 54.1 occurs, other than a default referred to in Section 54.1(a) or 54.1(b), the Design-Builder will remedy the default within a seven day rectification period after the notice given under Section 54.1. If the nature of such default is that it cannot be remedied within such seven day period, the Design-Builder will within such seven day period provide the Owner with a schedule acceptable to the Owner for remedying the default and the Design-Builder will remedy the default in accordance with that schedule.

54.3 If a default referred to in Section 54.1(a) or 54.1(b) occurs or if the Design-Builder fails to remedy any other default within the rectification period described in Section 54.2 or in accordance with the schedule acceptable to the Owner, the Owner may without prejudice to any other right or remedy exercise any or all of the following:

- (a) suspend all or part of the Work;
- (b) terminate the Design-Builder's right to continue with the Work in whole or in part;
- (c) remedy the default and deduct the cost thereof from any payment then or thereafter due to the Design-Builder; and

- (d) terminate this Agreement.
- 54.4 If the Owner terminates the Design-Builder's right to continue with all or part of the Work or terminates this Agreement pursuant to Section 54.3, the Owner will be entitled to:
- (a) take possession of the Work or any part of the Work;
  - (b) take possession of the Drawings and Specifications and make use of them in accordance with the rights granted under this Agreement;
  - (c) use construction machinery and equipment, subject to the rights of third parties;
  - (d) finish the Work or any part of the Work by whatever reasonable method the Owner may consider expedient;
  - (e) charge the Design-Builder the amount by which the full cost of finishing the Work and a reasonable allowance to cover the cost of corrections to Work performed by the Design-Builder that may be required under Section 40 exceeds the unpaid balance of the Contract Price; and
  - (f) on expiry of the Warranty Period, charge the Design-Builder the amount by which the cost of corrections to Work under Section 40 exceeds the allowance provided for such corrections, or reimburse the Design-Builder with the portion of the allowance unspent on the cost of corrections to the Work under Section 40 as applicable.
- 54.5 The termination of the Design-Builder's right to continue with part of the Work does not relieve or discharge the Design-Builder from any obligations under this Agreement, except the obligation to perform the part of the Work removed from the Design-Builder.
- 54.6 The rights, powers and remedies conferred on the Owner under this Agreement are not intended to be exclusive but are cumulative, are in addition to, do not limit and are not in substitution for any other right, power and remedy existing under this Agreement, under any other agreement, at law or in equity. The exercise by the Owner of any right, power or remedy does not preclude the simultaneous or later exercise by the Owner of any other right, power or remedy.
- 55. TERMINATION BY THE DESIGN-BUILDER**
- 55.1 The Design-Builder may by giving written notice to the Owner declare the Owner in default of this Agreement for any of the following reasons:
- (a) the Owner has failed to pay the Design-Builder within 45 days of the date that any payment becomes due to the Design-Builder in accordance with the terms of this Agreement, unless the Owner is bona fide disputing liability to make such payment and has provided notice to the Design-Builder of the basis for its dispute before the time provided in Section 42.11 for payment of invoices;
  - (b) the Owner has failed to substantially supply the Site to the Design-Builder, subject to any property availability restrictions identified in this Agreement, within 180 days following the Site Occupation Date; or
  - (c) substantially all of the Work is stopped by an order of any court or public authority having jurisdiction (providing that such order was not issued as the result of any act or fault of the Design-Builder or a Subcontractor) for a period of 90 days.

- 55.2 If a default referred to in Section 55.1 occurs, the Owner will remedy the default within a 21 day rectification period after the notice given under Section 55.1 or within such extension thereof established by the Design-Builder.
- 55.3 If the Owner fails to remedy the default within the rectification period described in Section 55.2 or any extension thereof established in accordance with that Section, the Design-Builder may exercise any or all of the following:
- (a) waive the default;
  - (b) further extend the rectification period;
  - (c) suspend the Work; and
  - (d) terminate this Agreement.
- 55.4 If the Design-Builder terminates this Agreement in accordance with Section 55.3(d), the Design-Builder is entitled to be paid:
- (a) in accordance with the terms of this Agreement for all Work satisfactorily performed to the date of termination; and
  - (b) expenses of the Design-Builder that are directly related to the termination and reasonable in the circumstances including the Design-Builder's obligations to other parties.

## **PART H – REPRESENTATIONS AND WARRANTIES**

### **56. REPRESENTATIONS AND WARRANTIES**

- 56.1 The Design-Builder represents and warrants to the Owner:
- (a) as of the Effective Date that:
    - (i) all necessary proceedings have been taken to authorize the Design-Builder to enter into this Agreement and to execute and deliver this Agreement;
    - (ii) this Agreement has been properly executed by an authorized signatory of the Design-Builder and is enforceable against the Design-Builder in accordance with its terms;
    - (iii) the Design-Builder has had sufficient time, opportunity and resources to investigate and has investigated and satisfied itself of every condition and risk relating to, affecting or that may affect the Project and the Work, or either of them, including the Site conditions, and the labour, equipment, material and other resources that may be necessary for the performance of the Work in a manner that will meet or exceed all requirements of this Agreement;
    - (iv) the Design-Builder's investigations and assessments described in Section 56.1(a)(iii), including of the Site conditions (such conditions including for greater certainty geotechnical conditions, subsurface conditions, bearing pressure, settlement characteristics and nature and consistency of soil), and any conclusions reached in such investigations and assessments, including any conclusions as to the effect, if any, on the Design, Construction, Substantial Completion Date and Contract Price, (or any of them), except for objective geotechnical information that

can be relied upon for accuracy but not interpretation, sufficiency or relevance, are based on the Design-Builder's own experience, examination, knowledge, information, interpretation, assessment, analysis and judgment and not upon any statement, representation or information, whether oral or written, made, produced or provided by, through or on behalf of the Owner or its advisors;

- (v) subject to Section 30.1 in respect of the accuracy of objective geotechnical data identified in Section 30.1(c), the Design-Builder acknowledges that the investigations made by the Owner of the conditions of the Site, including subsurface conditions, are of a preliminary nature and are made for the purpose of study and preliminary design for the sole benefit of the Owner only except for objective geotechnical data that can be relied upon by the Design-Builder for accuracy but not interpretation, sufficiency or relevance;
  - (vi) the Design-Builder has no knowledge of any fact that materially adversely affects or, so far as it can foresee, might materially adversely affect either its financial condition or its ability to fulfill its obligations under this Agreement;
  - (vii) there is no bona fide proceeding pending or threatened against the Design-Builder, which would, if successful, materially adversely affect the ability of the Design-Builder to fulfill its obligations under this Agreement;
  - (viii) the Design-Builder acknowledges that it has the responsibility for informing itself of all aspects of the Project and all information necessary to perform the Work; and
  - (ix) the Design-Builder acknowledges that the Work has not yet been impacted by any Force Majeure or change to applicable Laws or Standards and that, also as of the Effective Date, the Design-Builder has not yet incurred any additional costs nor been delayed as a result of any Force Majeure or change to applicable Laws or Standards; and
- (b) as of the Effective Date (to the extent applicable as of the Effective Date) and at all times throughout the Term that:
- (i) the Design-Builder has filed all tax, corporate information and other returns required to be filed by all applicable Laws, has complied with all workers' compensation legislation and other similar legislation to which it is subject, and has paid all taxes, fees and assessments due by the Design-Builder under those Laws as of the Effective Date, except for Lien Holdback monies properly retained, payments deferred by agreement and accounts withheld by reason of legitimate dispute;
  - (ii) the Design-Builder holds all permits, licences, consents and authorities issued by any level of government, or any agency of any level of government, that are required by all applicable Laws to perform the Work;
  - (iii) the Design-Builder has paid, as they became due, all accounts, expenses, wages, salaries, taxes, rates, fees and assessments required to be paid by it in respect of the Work and fulfillment of its obligations under this Agreement;
  - (iv) the Design-Builder is not in breach of any Law that is material to performance of the Design-Builder's obligations under this Agreement;

- (v) the Key Individuals or any substitute with equivalent qualifications proposed by the Design-Builder who have first been expressly accepted in writing by the Owner will be available and fully involved in the performance of the Work; and
- (vi) the Design-Builder is registered for the purposes of the GST.

56.2 The Owner represents and warrants to the Design-Builder as of the Effective Date that:

- (a) it has been properly constituted pursuant to applicable legislation;
- (b) it has been properly authorized to fulfill the obligations of the Owner under this Agreement; and
- (c) it has the power, capacity and authority to enter into this Agreement and to carry out its obligations under this Agreement.

## **PART I – PROTECTION AND INDEMNITY**

### **57. PROTECTION OF WORK AND PROPERTY**

- 57.1 The Design-Builder will protect the Work, the Site and property adjacent to the Site from damage that may arise as the result of the Design-Builder's operations under this Agreement, and will be responsible for such damage, except damage that occurs as the result of actions of the Owner, its agents, employees or Other Contractors.
- 57.2 Should any damage occur to the Work, the Site and property adjacent to the Site for which the Design-Builder is responsible as provided in Section 57.1, the Design-Builder will make good such damage at its own expense or pay all costs incurred by the Owner or others in making good such damage.
- 57.3 Should any damage occur to the Work, the Site and property adjacent to the Site for which the Design-Builder is not responsible as provided in Section 57.1, the Design-Builder will at the Owner's direction and expense make good such damage. The Contract Price and Contract Time will be adjusted in accordance with Section 49 and Section 50.

### **58. EXCLUSIONS OF LIABILITY**

- 58.1 Neither the Design-Builder nor the Owner will be liable to the other for any consequential or indirect damages in connection with this Agreement, whether based in contract, tort (including negligence), strict liability or otherwise and including loss of use, loss of revenues or profits and loss of opportunity. This Section 58.1 will not limit any liability the Design-Builder may have under this Agreement to pay liquidated damages.
- 58.2 Subject to Section 58.3 the maximum amount of the total aggregate liability of the Design-Builder to the Owner in connection with this Agreement, whether based in contract, tort (including negligence), strict liability or otherwise, is:
- (a) in respect of a loss by the Indemnified Parties for which insurance is to be provided by the Owner under Section 1 or Section 3 of Schedule 3 (Insurance Conditions), the applicable limit or sub-limit of the Wrap-up Liability coverage or the Course of Construction coverage, whichever is applicable to the loss, with such limit or sub-limit calculated without reduction for the amount of any deductible; or

- (b) in respect of any liability other than a loss referred to in Section 58.2(a) above, 50% of the Contract Price.

If this Agreement is terminated, the reference in this Section 58.2 to the "Contract Price" will be deemed only for purposes of this Section 58.2 to be the amount to which the Design-Builder would have been entitled if the Design-Builder had properly performed and completed the Work and this Agreement had not been terminated.

58.3 Section 58.2 will not limit the Design-Builder's liability in connection with:

- (a) fraud, gross negligence or wilful, fraudulent or criminal misconduct;
- (b) bodily injury, sickness, disease or death;
- (c) liability to third parties in respect of tangible personal or real property;
- (d) breach by the Design-Builder of its obligations of confidentiality under this Agreement; and
- (e) penalties, fines or other liability imposed by a governmental authority, an administrative tribunal or a court of competent jurisdiction for breach of applicable Law.

58.4 Nothing in this Section 58 will be construed to limit the liability of an insurer under the insurance required to be maintained under this Agreement.

## 59. **INDEMNIFICATION**

59.1 The Design-Builder will indemnify and save harmless the Owner and its officers, employees, representatives, consultants and agents including the Owner's Representative (collectively the "**Indemnified Parties**") from and against any and all losses, claims, damages, actions, causes of action, costs and expenses (including actual legal and other professional fees and disbursements) that any of the Indemnified Parties may sustain, incur, suffer or be put to at any time either before or after the expiration or termination of this Agreement, where the same or any of them are based upon, arise out of or occur, directly or indirectly, by reason of any act or omission of the Design-Builder or of any representative, agent, employee, officer, director, consultant of the Design-Builder or of any Subcontractor, excepting only liability to the extent arising out of the independent acts of the Indemnified Parties.

59.2 The obligations of the Design-Builder under Section 59 will not be affected by completion or termination of this Agreement, whether for default or otherwise, or suspension of the Work or any withdrawal of services or labour from the Project.

59.3 Neither the requirement of the Design-Builder to purchase and maintain insurance as described in the Insurance Conditions nor the acceptance of evidence of such insurance by the Owner will, in any manner, limit or qualify the right of the Owner to make a claim and recover insurance proceeds under the insurance policies described in the Insurance Conditions or the liability and obligations otherwise assumed by the Design-Builder under this Agreement.

## 60. **DESIGN-BUILDER'S DISCHARGE OF LIABILITY**

60.1 The Design-Builder will discharge all liabilities incurred by it, including for labour, equipment, materials or services used or reasonably required for use, in the performance of this Agreement, on or before the date each becomes due. In the case of bona fide disputed payments, the Design-Builder will discharge such liabilities when legally obliged to do so.

- 60.2 The Design-Builder will include as a condition of every Subcontract that the Subcontractor discharge all liabilities incurred by it, including for labour, equipment, materials, supplies or services used or reasonably required for use, in the performance of the Subcontract, on or before the date upon which each becomes due. In the case of bona fide disputed payments, the Design-Builder will or will cause the Subcontractor to discharge such liabilities when legally obliged to do so.
- 60.3 The Design-Builder will furnish the Owner with satisfactory evidence that its liabilities and those of Subcontractors have been discharged, such satisfactory evidence to be a statutory declaration in the form of CCDC 9A sworn by a knowledgeable officer or senior management employee of the Design-Builder or Subcontractor, as the case may be, or such other evidence as the Owner may require.
- 60.4 With the exception of any claim of builder's lien, builder's liens or certificates of pending litigation that arise due to an improper non-payment by the Owner, the Design-Builder will not directly or indirectly create, incur, assume or allow to be created by any of its Subcontractors or workers any lien, charge or encumbrance on the Site, Project or any part thereof or interest therein. The Design-Builder will immediately notify the Owner of any lien, charge or encumbrance asserted upon the Site, Project or any part thereof.

## **PART J - SECURITY, RECORDS, REPORTS AND AUDIT**

### **61. BONDS**

- 61.1 Before commencing the Work, the Design-Builder will purchase and deliver to the Owner an executed performance bond and an executed labour and materials payment bond (the "**Bonds**"). The form of the Bonds will be in accordance with the latest edition of the CCDC approved bond form or in substantially equivalent form acceptable to the Owner.
- 61.2 Each Bond under Section 61.1 will be in the amount of 50% of the Contract Price and will be issued by a surety licensed to transact the business of a surety in British Columbia and acceptable to the Owner, acting reasonably.
- 61.3 Upon entering into a Subcontract with a Subcontractor, the Design-Builder will advise the Subcontractor that a labour and materials payment Bond is in effect and will supply a copy of that Bond to the Subcontractor on request.
- 61.4 The Design-Builder will pay for and maintain the Bonds in force during the Term.
- 61.5 If the surety notifies either party that the Bonds are or are going to be terminated or cancelled for any reason whatsoever, the Design-Builder will obtain and provide the Owner with valid bonds effective from the date of termination or cancellation of the original bonds that comply with the bonding requirements of this Agreement.
- 61.6 The Design-Builder will, if required by the surety, obtain the written consent of the surety to any Change and will upon request by the Owner provide confirmation from the surety of such consent or confirmation from the surety that such consent is not required.
- 61.7 For greater certainty, the amount of the Bonds and any claim under the Bonds will not limit the Owner from seeking additional claims, damages, or remedies the Owner may be entitled to by reason of the Design-Builder's failure to successfully complete this Agreement in accordance with its terms and conditions.

**62. INSURANCE**

- 62.1 The Owner and the Design-Builder will obtain and maintain the insurance specified for each of them under the Insurance Conditions, and will otherwise comply with the Insurance Conditions.
- 62.2 Before beginning the Work, the Design-Builder will deliver to the Owner certified copies of all insurance coverage obtained by the Design-Builder in accordance with the Insurance Conditions, or such other proof of that insurance as is satisfactory to the Owner, acting reasonably.

**63. RECORDS AND AUDIT**

63.1 The Design-Builder will, in connection with this Agreement retain for a minimum of six years after the expiry of the Warranty Period all records, reports, and other documentation required under this Agreement and the following records, reports and other documentation relating to the Project whether or not required under other provisions of this Agreement:

- (a) all documents relating to permits;
- (b) all notices, reports, results and certificates relating to completion of the Design and Construction and completion of all commissioning activities;
- (c) all records relating to any inspections of the Facility conducted under applicable Laws or by or of any governmental authority;
- (d) all orders or other requirements issued to the Design-Builder by any governmental authority in connection with the Work;
- (e) all documents relating to applications for payment, Changes or delay or other claims by the Design-Builder.

The Design-Builder will permit the Owner and its consultants and representatives to inspect and copy any or all such records, reports and other documentation.

- 63.2 Without limiting the other provisions of this Agreement, the Design-Builder will provide to the Owner and its consultants and representatives all records, reports and other documentation reasonably required by the Owner to support any applications for payment, Changes or delay or other claims by the Design-Builder.
- 63.3 The Owner and its consultants and representatives may on request, and acting reasonably, audit all books and records of the Design-Builder that relate to any applications for payment, Changes or delay or Disputes or other claims by the Design-Builder.
- 63.4 The Design-Builder will fully cooperate with the Owner to conduct an audit pursuant to this Section 63.

**PART K - DISPUTE RESOLUTION**

**64. DISPUTE RESOLUTION**

- 64.1 All Disputes will be resolved in accordance with the Dispute resolution process set out in this Section 64.

- 64.2 The Dispute resolution process set out in this Section 64 may be commenced by either party by giving notice to the other party briefly setting out the pertinent facts, the remedy or relief sought and the grounds on which such remedy or relief is sought.
- 64.3 Within seven days of a notice under Section 64.2, the Design-Builder's Representative and the Owner's Representative will:
- (a) make bona fide efforts to resolve any Dispute arising between them by amicable negotiations; and
  - (b) provide frank, candid and timely disclosure of all relevant facts, information and documents, including full written particulars of the nature, entitlement and magnitude of any Dispute including the relevant provisions of this Agreement.
- 64.4 If the Owner's Representative and the Design-Builder's Representative fail to resolve the Dispute within 10 days after receipt of the notice pursuant to Section 64.3, the parties will refer the Dispute and all information to a nominated senior officer of the Owner and a nominated senior officer of the Design-Builder for resolution.
- 64.5 If the nominated senior officer of the Owner and the nominated senior officer of the Design-Builder fail to resolve the Dispute within 10 days after the Dispute has been referred to them, unless otherwise agreed in writing by the parties, either party may refer the Dispute to the Owner's Consultant by notice in writing to both the Owner's Consultant and to the other party. The Owner will require the Owner's Consultant to give a decision in writing and within a reasonable period of time. Both parties reserve their rights to dispute the decision of the Owner's Consultant.
- 64.6 Where either or both parties dispute the Owner's Consultant's decision made pursuant to Section 64.5, the parties will abide by the Owner's Consultant's decision until such time as the Dispute is finally resolved under the other provisions of this Section 64.
- 64.7 If either party disputes the Owner's Consultant's decision made pursuant to Section 64.5, or if the Owner's Consultant's decision is not made within a reasonable period of time, either party may elect to give notice of its intention to submit the Dispute to binding arbitration. If within 10 days of such notice the other party does not give a notice of objection to arbitration, the Dispute will be resolved by arbitration. The Dispute will be referred to a single arbitrator and finally resolved by binding arbitration under the rules of the British Columbia International Commercial Arbitration Centre. The arbitrator will be chosen by mutual agreement between the Design-Builder and the Owner. If an arbitrator has not been appointed within 14 days of the date that the Dispute has been referred to an arbitrator, the arbitrator will be appointed by the British Columbia International Commercial Arbitration Centre.
- 64.8 Prior to receiving a notice of intention to submit a Dispute to binding arbitration or after giving a notice of objection to arbitration in accordance with Section 64.7 a party may commence proceedings in respect of the Dispute in the courts of British Columbia and serve the other party as required in respect of such proceedings.
- 64.9 Any of the times specified in this Section 64 may be varied by mutual agreement between the Design-Builder's Representative and the Owner's Representative.
- 64.10 Pursuit of the resolution of a Dispute under any part of this Section 64 does not relieve either party of its responsibility to ensure timely performance of its obligations under this Agreement. In relation to all Disputes, whether or not a notice under Section 64.2 has been given, the Design-Builder will diligently proceed with the Work and closely track all costs and impacts associated with the Dispute and may reserve its rights concerning the Dispute.

## **PART L - GENERAL PROVISIONS**

### **65. LAWS, NOTICE, PERMITS AND FEES**

- 65.1 The Design-Builder will perform the Work in accordance with all applicable Laws and Standards and will comply with all Laws and Standards that may affect or relate to the Work.
- 65.2 The Design-Builder will apply for, pay for and obtain the building permit and all other permits, licences and approvals required for the performance of the Work. When requested to do so by the Design-Builder, the Owner may at its discretion provide reasonable assistance to the Design-Builder in obtaining permits, licences, and approval required for the performance of the Work but, in no circumstance will the Owner be required to incur any costs or make any payments pursuant to this Section 65.2.
- 65.3 All applicable Laws in force in British Columbia, as amended from time to time, govern the Work.
- 65.4 Except as otherwise provided in this Agreement, if after:
- (a) the Financial Submission Date, an Epidemic Change in Law comes into effect; or
  - (b) the Effective Date, a change to applicable Laws or Standards comes into effect,
- either party will be entitled to make a claim for an adjustment in the Contract Price or the Contract Time as a Change.

### **66. INTELLECTUAL PROPERTY FEES**

- 66.1 The Design-Builder will obtain and pay for all intellectual property rights (including of any patent, copyright, industrial design, trademark or trade secret) all royalties and licence fees required for the performance of the Work and will, without limiting Section 59, indemnify and hold the Owner harmless from and against all claims, demands, losses, costs, damages, actions, suits or proceedings arising out of the Design-Builder's performance of the Work under this Agreement that are attributable to infringement or an alleged infringement of any intellectual property right by the Design-Builder or its Subcontractors or anyone for whose acts the Design-Builder may be liable.

### **67. CONFIDENTIALITY AND COMMUNICATIONS**

- 67.1 Subject to Section 67.2, each party will hold in confidence any Confidential Information received from the other party, except that this Section 67 will not restrict:
- (a) the Design-Builder from disclosing or granting access to such information to its professional advisers and consultants, to the extent necessary, to enable it to perform (or to cause to be performed) or to enforce its rights or obligations under this Agreement and provided further that the Design-Builder may, subject to obtaining confidentiality restrictions similar to those set out in this Agreement, provide to a Subcontractor and its advisors, or provide or cause to be provided to other third parties, Confidential Information which is necessary to enable the Design-Builder to perform (or to cause to be performed) its obligations under this Agreement; and
  - (b) the Owner from disclosing or granting access to such information to any provincial ministry, Transportation Investment Corporation, Infrastructure BC Inc., and any other governmental authority which require the information in relation to the Project;

- 67.2 Subject to any restrictions on the Confidential Information which are imposed by a third party that may own any Confidential Information, the obligation to maintain the confidentiality of the Confidential Information does not apply to:
- (a) Confidential Information which the party that disclosed the Confidential Information confirms in writing is not required to be treated as Confidential Information;
  - (b) Confidential Information which is or comes into the public domain otherwise than through any disclosure prohibited by this Agreement;
  - (c) Confidential Information to the extent any Person is required to disclose such Confidential Information by Law, including a disclosure required under FIPPA;
  - (d) Confidential Information to the extent consistent with any Owner's policy concerning the Owner's Confidential Information, the details of which have been provided to the Design-Builder in writing prior to the disclosure; or
  - (e) the material referred to in Section 21.5 and any Confidential Information that the Owner is entitled to receive from the Design-Builder pursuant to this Agreement.
- 67.3 Without prejudice to any other rights and remedies that the other party may have, each of the parties agrees that damages may not be an adequate remedy for a breach of Section 67.1 and that the other party will, in such case, be entitled to the remedies of injunction, specific performance or other equitable relief for any threatened or actual breach of Section 67.1 subject, in the case of a claim for any such remedy against the Owner, to the provisions of the *Crown Proceeding Act* (British Columbia).
- 67.4 Unless required by any Law, neither party will make or permit to be made any public announcement or disclosure whether for publication in the press, radio, television or any other medium of any Confidential Information, without the consent of the other party (which will not be unreasonably withheld or delayed).
- 67.5 Except to the extent required for compliance with any applicable securities laws, the Design-Builder will not make any public announcement relating to the Project or this Agreement without the prior written consent of the Owner. The Design-Builder, with the prior written consent of the Owner, may include the Project in its promotional materials.
- 67.6 The Design-Builder acknowledges that the Owner may, in its discretion and without consultation with the Design-Builder, make any public announcement relating to the Project.
- 67.7 The parties will comply with Schedule 4 – Communication Roles.
68. **NOTICE**
- 68.1 Any notice or communication required or permitted to be given under this Agreement will be in writing and will be considered to have been sufficiently given if delivered by hand or transmitted by electronic transmission to the address or electronic mail address of each party set out below:
- (a) if to the Owner:

Kim Anderson  
Transportation Investment Corporation  
500 – 1112 Fort Street  
Victoria, BC V8V 3K8  
Email: Kim.Anderson@ticorp.ca

- (b) if to the Design-Builder:

Maple Reinders Constructors Ltd.  
2660 Argentina Road  
Mississauga, ON L5N 5V4

Attention: Dan Hayhoe

Email: danh@maple.ca

With a copy to:

Maple Reinders Constructors Ltd.  
2660 Argentina Road  
Mississauga, ON L5N 5V4

Attention: Chris Moran

Email: chrism@maple.ca

or to such other address or electronic mail address as any party may, from time to time, designate in the manner set out above.

68.2 Any such notice or communication will be considered to have been received:

- (a) if delivered by hand during business hours (and in any event, at or before 5:00 pm local time in the place of receipt) on a Business Day, upon receipt by a responsible representative of the receiver, and if not delivered during business hours, upon the commencement of business hours on the next Business Day; and
- (b) if sent by electronic transmission during business hours (and in any event, at or before 5:00 pm local time in the place of receipt) on a Business Day, upon receipt, and if not delivered during business hours, upon the commencement of business hours on the next Business Day, provided that:
  - (i) the receiving party has, by electronic transmission, by hand delivery or by facsimile transmission, acknowledged to the notifying party that it has received such notice; or
  - (ii) within 24 hours after sending the notice, the notifying party has also sent a copy of such notice to the receiving party by hand delivery or facsimile transmission.

68.3 Delivery by mail will not be considered timely notice under this Agreement.

68.4 In the event of an emergency or urgent matter, in addition to the notice required by this Section 68, a verbal notice will be given as soon as the party giving the notice becomes aware of any material event or circumstance that gives rise to the requirement for a written notice being given.

69. **LEGAL RELATIONSHIP**

- 69.1 The Design-Builder is an independent contractor and not the servant, employee, partner or agent of the Owner.
- 69.2 The Design-Builder will not commit the Owner to the payment of any money to any Person.
- 69.3 No partnership, joint venture or agency involving the Owner is created by this Agreement or under this Agreement.
- 69.4 All personnel engaged by the Design-Builder to design and construct the Project are at all times the employees or Subcontractors of the Design-Builder and not of the Owner. The Design-Builder is solely responsible for all matters arising out of the relationship of employer and employee.

70. **ASSIGNMENT**

- 70.1 The Design-Builder will not, without the prior written consent of the Owner, assign, either directly or indirectly, any right or obligation of the Design-Builder under this Agreement.
- 70.2 The Owner may, upon notice to the Design-Builder, assign any or all of its rights or obligations under this Agreement to any other agency or organization that will assume responsibility for the operation of the Facility. Subject to the foregoing and subject to the right of assignment of the licence referred to in Section 21.5, the Owner will not, without the prior written consent of the Design-Builder, assign, either directly or indirectly, any right or obligation of the Owner under this Agreement.

71. **INTEREST**

- 71.1 If payment by either party of any amount payable under this Agreement is not made when due, interest will be payable on such amount at 2% per annum over the prime rate, calculated from the date due under this Agreement until paid, compounded monthly. The party to whom payment is owed and overdue will notify the other party at least monthly of the overdue amount and the accrued interest on that amount. The prime rate is the annual rate of interest announced by the Royal Bank of Canada (or its successor), or any other Canadian chartered bank agreed to by the parties, as its "prime" rate then in effect for determining interest rates on Canadian dollar commercial loans made by it in Canada.

72. **WAIVER**

- 72.1 No waiver by either party of a right of that party or any breach by the other party in the performance of any of its obligations under this Agreement is effective unless it is in writing.
- 72.2 No waiver of any right or obligation is a waiver of any other right or obligation under this Agreement.
- 72.3 Failure or delay to complain of an act or failure of the other party or to declare the other party in default, irrespective of how long the failure or delay continues, does not constitute a waiver by the party of any of its rights against the other party.
- 72.4 The duties and obligations imposed by this Agreement and the rights and remedies available hereunder will be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by Law.

**73. ASSUMPTION OF RISK**

73.1 Except to the extent expressly allocated to the Owner or otherwise provided for under this Agreement, all risks, costs and expenses in relation to the performance by the Design-Builder of its obligations under this Agreement are allocated to, and accepted by, the Design-Builder as its entire and exclusive responsibility.

**74. GENERAL DUTY TO MITIGATE**

74.1 In all cases where the Design-Builder is entitled to receive from the Owner any additional compensation or any costs, damages or extensions of time, the Design-Builder will use all reasonable efforts to mitigate such amount required to be paid by the Owner to the Design-Builder under this Agreement, or the length of the extension of time. Upon request from the Owner, the Design-Builder will promptly submit a detailed description, supported by all such documentation as the Owner may reasonably require, of the measures and steps taken by the Design-Builder to mitigate and meet its obligations under this Section 74.

**75. OTHER PROVISIONS**

75.1 The exclusions, waivers and limitations of liability, representations and warranties and indemnities in this Agreement, the provisions of Sections 63, 64, 66, 67 and rights accrued prior to completion or termination of this Agreement will survive the completion or termination of this Agreement.

75.2 This Agreement constitutes the entire agreement between the parties, expressly superseding all prior agreements and communications (both oral and written) between any of the parties hereto with respect to all matters contained herein or therein, and except as stated herein or the instruments and documents to be executed and delivered pursuant hereto, contains all the representations and warranties of the respective parties.

75.3 No waiver of any provision of this Agreement and no consent required pursuant to the terms of this Agreement is binding or effective unless it is in writing and signed by the party providing such waiver or consent.

75.4 No failure to exercise, and no delay in exercising, any right or remedy under this Agreement will be deemed to be a waiver of that right or remedy. No waiver of any breach of any provision of this Agreement will be deemed to be a waiver of any subsequent breach of that provision or of any similar provision.

75.5 This Agreement enures to the benefit of and binds the Owner, its successors and its assigns and the Design-Builder and its successors and permitted assigns.

75.6 The parties must do everything reasonably necessary to give effect to the intent of this Agreement, including execution of further instruments.

75.7 The Design-Builder and the Owner will take all reasonable and necessary steps to minimize and avoid all costs and impacts arising out of the performance of the Work and this Agreement.

75.8 Neither the Owner nor the Design-Builder will take advantage of any apparent discrepancy, ambiguity, error or omission in this Agreement and will notify the other party forthwith following the detection of anything it suspects may be an ambiguity, discrepancy, error or omission.

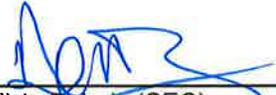
75.9 Each Schedule attached to this Agreement is an integral part of this Agreement as if set out at length in the body of this Agreement.

- 75.10 This Agreement may only be amended by an agreement of the parties in writing. No such amendments will be valid unless executed by the Owner and the Design-Builder.
- 75.11 This Agreement will be deemed to be made pursuant to the Laws of the Province of British Columbia and the Laws of Canada applicable therein and will be governed by and construed in accordance with such Laws.
- 75.12 For the purposes of any legal actions or proceedings brought by any party hereto against the other party, the parties hereby irrevocably submit to the exclusive jurisdiction of the courts of the Province of British Columbia and acknowledge their competence and the convenience and propriety of the venue and agree to be bound by any judgment thereof and not to seek, and hereby waive, review of its merits by the courts of any other jurisdiction.
- 75.13 Where the Design-Builder is a joint venture, partnership or consortium, each member agrees to be jointly and severally liable for the obligations of the Design-Builder.
- 75.14 Time is of the essence of this Agreement.
- 75.15 This Agreement may be executed in any number of counterparts, each of which will be deemed to be an original, and this has the same effect as if the signatures on the counterparts were on a single copy of this Agreement so that it will not be necessary in making proof of this Agreement to produce or account for more than one such counterpart.
- 75.16 A party may deliver an executed copy of this Agreement by facsimile or other electronic means but that party will immediately deliver to the other parties an originally executed copy of this Agreement.

**[Execution Pages Follow]**

**IN WITNESS WHEREOF** the parties have executed this Agreement as of the Effective Date.

**ROYAL BRITISH COLUMBIA MUSEUM**

Per:   
\_\_\_\_\_  
Alicia Dubois (CEO)

Per:   
\_\_\_\_\_  
Anne Minnings (CFO)

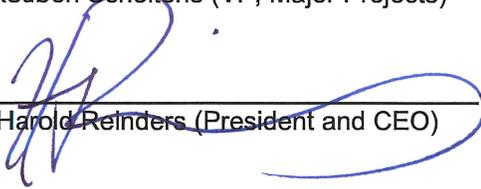
**MAPLE REINDERS CONSTRUCTORS LTD.**

Per:



Reuben Schottens (VP, Major Projects)

Per:



Harold Reinders (President and CEO)

**SCHEDULE 1  
STATEMENT OF REQUIREMENTS**

See separate document.

## SCHEDULE 2 REVIEW PROCEDURE

### 1. SUBMITTAL SCHEDULE

- 1.1 The parties agree that the preliminary schedule for Submittals (the “**Submittal Schedule**”) is included in the Time Schedule that is included in the Proposal Extracts, and that the Submittal Schedule will conform to the requirements identified in Section 20 of this Agreement. The Submittal Schedule may be amended by agreement of the parties in accordance with the terms of this Section 1. Any amendment to the Submittal Schedule will provide for a progressive and orderly flow of Submittals from the Design-Builder to the Owner as appropriate to allow sufficient time for review of each Submittal by the Owner, taking into account both the resources necessary to be available to the Owner to conduct such review and any user group consultations.
- 1.2 Unless a longer period is required by this Agreement or is otherwise reasonably required by the Owner, the Submittal Schedule will allow a minimum of:
- (a) 15 Business Days for the Owner’s review of Submittals submitted in relation to the Design pursuant to this Schedule, or
  - (b) 10 Business Days for the Owner’s review of other Submittals,
- from the date of receipt for review of and response to each Submittal, provided that if the Design-Builder has made major changes to the grouping and volume of Submittals, such period of time will be adjusted, acting reasonably, taking into account the factors set forth in this Section 1.
- 1.3 The Design-Builder will in scheduling Submittals and in the performance of the Design and the Construction, allow adequate time prior to performing the Design and the Construction that are the subject of the Submittals, for review of the Submittals and for the Design-Builder to make changes to the Submittals, the Design and the Construction that may be required if comments are received on the Submittals.
- 1.4 If the Submittal Schedule indicates that a large number of Submittals will be made at one time, the Owner may request a longer period for review or a staggering of the Submittals, and the Design-Builder will revise the Submittal Schedule accordingly, taking into account both the availability of resources required by the Owner to conduct such review and whether delay in the review of the subject matter of the Submittal will have a material impact on the Design-Builder’s ability to progress future anticipated Submittals and the Design or Construction in accordance with the Time Schedule.
- 1.5 The Design-Builder will submit the Submittal Schedule, including amendments prior to the start of Construction and, subsequently, to the Owner on a monthly basis until Substantial Completion is achieved.
- 1.6 All amended Submittal Schedules will be required to meet all the requirements of this Section 1.
- 1.7 The Design-Builder will submit all Submittals to the Owner in accordance with the current amended Submittal Schedule.
- 1.8 The Design-Builder will bear the risk of delays and additional costs caused as a result of the late submission of Submittals to the Owner, by Submittals which are rejected and required to be re-submitted in accordance with the terms of this Schedule 2 – Review Procedure, or by changes in

the Design and Construction required as a result of comments made pursuant to this Schedule 2 – Review Procedure.

## **2. GENERAL REQUIREMENTS FOR SUBMITTALS**

- 2.1 Unless otherwise specified by this Agreement or by the Owner, the Design-Builder will issue an electronic copy of each Submittal in .pdf format or other format agreed by the parties acting reasonably. Unless otherwise required by this Agreement or by applicable Law to be signed or sealed at the time the Submittal is first provided to the Owner, upon assignment of the comment “REVIEWED” by the Owner of each Submittal the Design-Builder will issue a paper copy (or an electronically sealed copy if agreed by the Owner) of the Submittal that has been sealed by the Design-Builder’s Consultant as required by Section 2.4 below.
- 2.2 The Design-Builder will compile and maintain a Submittal log that includes the date, contents and status of the submission of all Submittals, including the date, contents and status of the submission of all Submittals, including the date of receipt and content of all returned Submittals and comments thereon.
- 2.3 All Submittals will be in English.
- 2.4 All Submittals, and all amended versions of Submittals, required by this Agreement or by applicable Law to be signed or sealed by individuals with professional designations (including where applicable by registered professional architects or engineers) will be so signed and, where applicable, sealed, and will include confirmation by such individual or individuals that the Work proposed by the Submittal meets the requirements of this Agreement, including the Statement of Requirements.
- 2.5 All Submittals will include all documents to be reviewed and will clearly identify the purpose of the Submittal, the Design-Builder’s proposed course of action relating to the Submittal and the Design and the Construction that are the subject of the Submittal.
- 2.6 All Submittals will refer to the relevant provisions of Schedule 1 – Statement of Requirements and to any matter that has previously been subject to review. All Submittals will:
- (a) be clearly identified as a Submittal and will be delivered with appropriate covering documentation, which will include a list of all attached Submittals and for each Submittal the document number(s) or drawing number(s);
  - (b) include revision numbers (if applicable);
  - (c) include document or drawing title(s);
  - (d) include name of entity that prepared the Submittal; and
  - (e) include details of the Submittal log showing date and delivery information and/or log number of all previous submissions of that Submittal; identification of any previous Submittal superseded by the current Submittal, and a description of the portions of the Submittal that are the subject of review.

## **3. COMMENTS**

- 3.1 The Owner will review and respond to each Submittal in accordance with the applicable time periods for the Submittal, provided that if, in the Owner’s opinion, acting reasonably, additional

information is required to be included in any Submittal in order for the Owner to carry out its review pursuant to this Schedule 2 – Review Procedure, the Design-Builder will promptly provide such additional information and the time period for review will not commence for such Submittal until the Owner has received all such information.

- 3.2 The Owner will return Submittals to the Design-Builder and assign one of the following 3 comments:
  - (a) “REVIEWED”;
  - (b) “CORRECT DEFICIENCIES”; or
  - (c) “REJECTED”.
- 3.3 The comment “REVIEWED” will be assigned to those Submittals that, in the opinion of the Owner, acting reasonably, conform to the requirements of this Agreement. The Design-Builder will comply with and implement such Submittals.
- 3.4 The comment “CORRECT DEFICIENCIES” will be assigned to those Submittals that, in the opinion of the Owner, acting reasonably, generally conform to the requirements of this Agreement, but in which minor deficiencies have been found and identified by the Owner’s review. The Design-Builder will, to the extent necessary, correct these Submittals and provide a copy of such Submittals to the Owner before the Design-Builder implements the portions of such Submittals that have received comments, but may proceed on the portions of such Submittals that have not received comments. The Design-Builder will comply with and implement such corrected Submittals. If at any time it is discovered that the Design-Builder has not corrected the deficiencies on Submittals that were correctly stamped “CORRECT DEFICIENCIES”, then the Design-Builder will be required to modify the Submittals, the relevant Design and the Construction as required to correct the deficiencies and the Design-Builder may be required, at the Owner’s discretion, acting reasonably, to resubmit relevant Submittals.
- 3.5 The comment “REJECTED” will be assigned to those Submittals that, in the opinion of the Owner, acting reasonably, contain significant deficiencies or do not conform with the requirements of this Agreement, including this Schedule 2 – Review Procedure. The Design-Builder will correct and re-submit these Submittals within 10 Business Days after the comment has been provided to the Design-Builder. The Owner will then review such corrected Submittals and assign a comment to the corrected Submittal. The Submittals will be corrected, revised and resubmitted as often as may be required to obtain a comment that permits the Design-Builder to proceed. Except with the written consent of the Owner, the Design-Builder will not proceed with any Design or Construction to which such Submittals receiving the comment “REJECTED” relate until the Design-Builder obtains a comment that permits the Design-Builder to proceed.
- 3.6 The Owner may request additional time for the review of any Submittal, including where the Submittal is voluminous or requires extensive review by representatives (including consultants) of the Owner, and the Design-Builder will extend such time for any reasonable requests by the Owner.
- 3.7 If the Owner does not respond to a Submittal within the applicable time periods for the Submittal, the Submittal will be deemed “REVIEWED” and the Design-Builder may proceed with and implement the Design and the Construction on the basis set forth in the applicable Submittal without any further action or documentation required.
- 3.8 Where the Owner issues the comment “CORRECT DEFICIENCIES” or “REJECTED”, the Owner will provide reasons for the comment, referencing the particulars of the Section(s) of this Agreement (including the Statement of Requirements) that the Submittal fails to satisfy.

- 3.9 If at any time after assigning any comment to a Submittal or where Section 3.7 of this Schedule has applied, the Owner or the Design-Builder discovers deficiencies or any failure to conform to the requirements of this Agreement, the Owner may revise the comment assigned to any Submittal. If the parties agree or it is determined in accordance with Section 64 (Dispute Resolution) of this Agreement that the revised comment is correct, the Design-Builder will make all such corrections to the Submittals and the Design and the Construction.
- 3.10 For the purpose of facilitating and expediting the review and correction of Submittals, the Owner's Representative and the Design-Builder's Representative will meet as may be mutually agreed to discuss and review any outstanding Submittals and any comments thereon.
- 3.11 In lieu of returning a Submittal, the Owner may by letter notify the Design-Builder of the comment assigned to the Submittal and if such comment is "CORRECT DEFICIENCIES" or "REJECTED" the letter will contain comments in sufficient detail for the Design-Builder to identify the correction sought.

#### **4. USER CONSULTATION PROTOCOL**

- 4.1 The Design-Builder acknowledges that review of the Design by the Owner and consultation with the Facility users is an essential step in the completion of the detailed design of the Facility. Accordingly, the Design-Builder will conduct consultations with representatives of the Facility users (the "**User Consultation Groups**") as described in this Schedule 2. The Owner will make reasonable efforts, as requested by the Design-Builder, to assist and support the Design-Builder with the consultation process, but nothing in this Section 4 will be interpreted to give the Owner responsibility for the Design, the Design schedule or the user consultation process.
- 4.2 The Owner will establish User Consultation Groups that may include the Owner, the Owner's Representatives, employees, agents, contractors and subcontractors, curators, researchers, archivists, and collections managers.
- 4.3 Unless agreed by the Owner, all aspects of the Design will be subject to review by one or more User Consultation Groups.
- 4.4 The User Consultation Groups will include a User Consultation Group designated as the "Core User Group" with responsibility for coordinating the Design review process with the Design-Builder.
- 4.5 Unless otherwise agreed, Submittals will be provided and reviewed in accordance with the following:
- (a) Draft Submittal to the Owner:
    - (i) The Design-Builder will provide a draft Submittal as indicated on the Submittal Schedule that includes all relevant material with a covering transmittal indicating the purpose of the Submittal, and the information that should be reviewed by the Owner and the User Consultation Groups.
    - (ii) All changes from a previous Submittal should be clearly indicated in accordance with Section 9.2 of this Schedule 2.
  - (b) Draft Submittal to the User Consultation Group:

- (i) Within five Business Days following the draft Submittal, the Design-Builder will present the relevant material at a meeting of the relevant User Consultation Group(s).
  - (ii) The presentation will be made in person or, if the Owner agrees, by videoconference by the Design-Builder's Consultant or, if the Owner agrees, the Design-Builder's Professional Engineer or other subject matter expert.
  - (iii) The Design-Builder's presentation will include a page-by-page review of the draft Submittal.
  - (iv) The Design-Builder must be in attendance, preferably in person but teleconference is acceptable.
  - (v) During the presentation, a representative of the Design-Builder will take "live minutes" so that all parties can agree on the content of the minutes during the meeting. The Design-Builder will circulate the minutes immediately after the meeting to all parties and within 3 Business Days the Design-Builder must circulate formal minutes for review. If the Owner notifies the Design-Builder of any errors in the minutes, the Design-Builder will correct such errors within 3 Business Days of the Owner's notice.
- (c) Informal Comments from the Owner:
- (i) The Owner will provide any informal feedback through to the Design-Builder at the time of the presentation.
- (d) Formal Submittal to the Owner:
- (i) The Design-Builder will make the formal Submittal within five Business Days following the presentation.
  - (ii) If the Design-Builder does not address the feedback received at the presentation, the Design-Builder will provide commentary on the reasons for not addressing the feedback.
- (e) Formal Response from the Owner:
- (i) The Owner will respond within 15 Business Days following the formal Submittal in accordance with this Schedule 2.
- 4.6 The process set out in this Section 4 will be set out in the Submittal Schedule.
- 4.7 The parties acknowledge that Design development is an iterative and interactive process and that additional User Consultation Group review and meetings may be required from those shown on the Submittal Schedule. The parties will co-operate to amend the Submittal Schedule as may be required from time to time to ensure that sufficient consultations with the User Consultation Group in relation to each component of the Design (and changes to the Design resulting from such consultations) are completed prior to the Design-Builder making the formal Submittal.
- 4.8 The Owner and the Design-Builder will not be bound by the consultations with the User Consultation Groups, unless reflected in the formal Submittal and comments from the Owner.

4.9 If the Design-Builder considers that compliance with any comment raised by a User Consultation Group member would lead to a Change, the Design-Builder will, before taking into account such comment or objection, notify the Owner. If it is agreed by the Owner that such comments or objections would lead to a Change then the procedure as detailed in Part E - Changes of this Agreement will apply. In all cases, the parties will cooperate to identify potential alternative solutions to any comments or objections raised that would not lead to a Change.

4.10 The User Consultation Group consultation meetings will be held in Victoria, British Columbia, or another location designated by the Owner, or by video-conference, at a space made available by the Owner.

## **5. DISPUTES**

5.1 If the Design-Builder disputes any comment issued by the Owner in respect of a Submittal, including on the basis that the comment is or would result in a Change, the Design-Builder will promptly notify the Owner of the details of such Dispute and will submit the reasons why the Design-Builder believes a different comment should be assigned, together with appropriate supporting documentation. The Owner will review the Submittal, the reasons and supporting documentation and within seven Business Days after receipt thereof will either confirm the original comment or notify the Design-Builder of a revised comment. Nothing in this Section 5 will limit either party's right to refer a Dispute for resolution in the first instance to the Owner's Consultant under Section 64 (Dispute Resolution) of this Agreement.

## **6. DESIGN CHANGE**

6.1 The following will apply to the Owner's requests for amendments to the Design:

(a) revisions to Submittals required by the Owner under the processes described in this Schedule 2 – Review Procedure are not Changes and will be completed at the Design-Builder's cost, except to the extent that any such requested revision would constitute a change to the Statement of Requirements, in which event:

(i) for a material change to the Statement of Requirements, the terms of Part E - Changes will apply and such revision will not be implemented except under a Change Order or Change Directive issued by the Owner; and

(ii) for other changes to the Statement of Requirements, the parties will agree a process to address such minor changes, together with minor changes proposed by the Design-Builder; and

(b) if and to the extent the Owner requires a variation of any Design included in a Submittal that has previously been assigned a "REVIEWED" comment by the Owner or has been deemed "REVIEWED" pursuant to this Schedule 2 – Review Procedure (other than a variation required to bring the Design into conformity with this Agreement), then such variation will be a Change and the terms of Part E - Changes will apply.

## **7. EFFECT OF REVIEW**

7.1 Any review of and comment by the Owner on any Submittals are for general conformity to the obligations and requirements of this Agreement, and any such review and comment will not relieve the Design-Builder of the risk and responsibility for the Design and the Construction and for meeting all of its obligations and requirements of this Agreement, and will not create any new or additional obligations or liabilities for the Owner. Without limiting the generality of the foregoing, any and all

errors or omissions in Submittals or of any review and comment will not exclude or limit the Design-Builder's obligations or liabilities in respect of the Design or the Construction under this Agreement or exclude or limit the Owner's rights in respect of the Design and the Construction under this Agreement.

## **8. SUBMITTAL EXPLANATION**

- 8.1 At any time, the Owner may, acting reasonably, require the Design-Builder, including the Design-Builder's Consultant, Subcontractors and any other relevant personnel, at no additional cost to the Owner, to explain to the Owner and the Owner's advisors the intent of the Design-Builder's Submittals, including in relation to any design and any associated documentation and as to its satisfaction of the Statement of Requirements.

## **9. REVISIONS**

- 9.1 The Design-Builder will ensure that Submittals keep the same, unique reference number throughout the review process, and that all subsequent revisions of the same Submittal are identified by a sequential revision number and identified and tracked in the Submittal log. Correspondence related to such Submittal will reference the reference number and revision number.
- 9.2 Re-submittals will clearly show all revisions from the previous Submittal. Bound documents, including reports and manuals, will contain a preface that clearly states how revisions are marked and the previous revision number against which the revisions have been marked and highlighted within the document. A consistent format for mark-ups of documents will be used (e.g. deletions struck out and additions underscored). Revised portions of drawings will be clearly marked (with appropriate means to visually distinguish between the parts of the drawing that are revised and the parts that are not revised) and the revision number and description of the revision will be included on the drawing.
- 9.3 All revisions on print media will be initialled by hand by the individual designer, design checker and, where applicable, by the drafter and the drafting checker and will identify the individuals who initialled the Submittal. Electronic versions of the Submittal will identify the individuals who initialled the revisions to the printed version of the Submittal.
- 9.4 The Design-Builder will keep all Drawings and Specifications current. If any Drawings and Specifications are revised as part of a Submittal, all other Drawings and Specifications relying on or based on those Drawings and Specifications will also be revised accordingly. All such revised Drawings and Specifications will also be submitted with the Submittal to which it relates.

## **10. AUDIT BY THE OWNER**

- 10.1 Without limiting any other right under this Agreement, the Owner will have the right to audit all Submittals, including comparing all Submittals to previous Submittals.
- 10.2 If during an audit or at any other time it is discovered by the Owner or the Design-Builder that any Submittals were not correctly implemented, the Design-Builder will at its sole cost immediately take all necessary steps to correct and modify the applicable Submittals and the Design and Construction to which they relate and will advise the Owner of all such corrections and modifications.

**11. DESIGN PROCESS**

11.1 The Design-Builder will undertake the Design:

- (a) in accordance with this Agreement, including the requirements of this Schedule 2 – Review Procedure to provide Submittals to the Owner in accordance with the Submittal Schedule and to undertake consultations with the User Consultation Groups in accordance with Section 4 of this Schedule 2 – Review Procedure; and
- (b) in phases progressively, with each phase capturing the information and detail of a previous phase, as described in Appendix 2A and Section 20 of this Agreement.

**12. MOCK-UPS AND PROTOTYPE ROOMS**

12.1 The required mock-up Submittals for and prototypes rooms of the Building are listed in Appendix 2A.

## APPENDIX 2A – SUBMITTAL REQUIREMENTS

### 1. MINIMUM SUBMITTAL REQUIREMENTS FOR DESIGN PACKAGES

1.1 The Review Procedure in relation to each Design Package is intended to allow the Owner to verify conformance with the Statement of Requirements over four designated events. In general terms, each Design Package is intended to reflect and deal with:

- (a) a staged building permit approach reflecting a series of sequential tenders by the Design-Builder; and
- (b) a progressive evolution and resolution of all provisions of the Statement of Requirements related to the Design.

1.2 The Design-Builder will provide each Design Package to the Owner in compliance with the following key objectives:

(a) Design Package A – Design Development Review/Resolution

- (i) resolution of Statement of Requirements design conformance issues consisting of what would be required in an application for a typical development permit which include building siting, landscaping treatment, building elevations and associated materials palette(s);
- (ii) resolution of floorplans to a state suitable to verify the positioning of Functional Program elements to the extent that would allow for the design of the building foundations; and
- (iii) satisfactory response to previous technical submittal comments received from the Owner relating to the Technical Submission.

(b) Design Package B – Foundation Building Permit Review/Resolution

- (i) critical Functional Program area relationship conformance issues resolved;
- (ii) structural and civil engineering design to be at a high level of completion;
- (iii) electrical and mechanical engineering design to be advanced suitable for support of foundation permit;
- (iv) IMIT, security and landscape concept designs available for review;
- (v) preliminary Schedule 8 energy and carbon modeling data available for review; and
- (vi) demonstration of actions taken for achieving:
  - A. the CCI Designation;
  - B. LEED Gold Certification; and
  - C. RHFAC™ Gold Certification.

- (c) Design Package C – Building Permit Review/Resolution
    - (i) all Functional Program conformance issues resolved;
    - (ii) architectural and engineering disciplines have advanced their construction documentation to a level suitable to apply for complete building permit;
    - (iii) fixtures, furniture, and equipment conformance review initiated;
    - (iv) IMIT, security and landscape concept designs available for review;
    - (v) final Schedule 8 energy and carbon modeling data available for review; and
    - (vi) demonstration of actions taken for achieving:
      - A. the CCI Designation;
      - B. LEED Gold Certification; and
      - C. RHFAC™ Gold Certification.
  - (d) Design Package D – Issued for Construction Review
    - (i) all disciplines have advanced their construction documentation to be 100% complete for review purposes;
    - (ii) all interior finishes conformance issues resolved;
    - (iii) fixtures, furniture, and equipment conformance issues resolved;
    - (iv) final Schedule 8 energy and carbon modeling data verified; and
    - (v) demonstration of actions taken for achieving:
      - A. the CCI Designation;
      - B. LEED Gold Certification; and
      - C. RHFAC™ Gold Certification.
- 1.3 Material submitted for Owner review by the Design-Builder will contain sufficient descriptive levels of detail relevant to each Design Package for all necessary design disciplines including any other disciplines necessary but not listed below.
- 1.4 To the extent applicable to the level of detail required of each Design Package, the Design-Builder will include, at a minimum, the following for each relevant discipline in each Design Package in a scale and format suitable for review by the Owner pursuant to this Schedule 2 - Review Procedure.
- (a) For the following design disciplines:
    - (i) structural engineering;

- (ii) electrical engineering;
- (iii) mechanical engineering;
- (iv) civil engineering;
- (v) IT/AV/communications design;
- (vi) security design; and
- (vii) landscape architecture,

include, at a minimum, the following:

- A. site plan(s);
- B. floor plans;
- C. line diagrams;
- D. building sections (transverse and longitudinal);
- E. wall sections (where relevant);
- F. reflective ceiling plans (where relevant);
- G. equipment details (where relevant);
- H. associated schedules (where relevant);
- I. supporting analytical analysis and summaries where required in this Agreement; and
- J. complete prescriptive specifications in standard divisional format.

(b) For the following design disciplines:

- (i) architecture; and
- (ii) interior design,

in addition to all items described in Section 1.4(a)(a)(vii)A to (a)(vii)F above, also include the following:

- A. interior elevations with supporting colour and material boards;
- B. detailed building elevations;
- C. material samples for exterior components;
- D. schedules for doors, hardware, windows and finishes;

- E. millwork details;
- F. furnishing, fixtures and equipment details;
- G. building code analysis including any alternate solutions; and
- H. all components, features and finishes where applicable requiring conformance with requirements as outlined in this Agreement.

**2. REQUIRED SUBMITTALS SUMMARY**

2.1 Without limiting any other Submittal requirement appearing in this Agreement (including the Schedules hereto and associated Appendices), the Design-Builder will provide the following Submittals to the Owner in accordance with the timelines set out below:

#	Section Reference	Submittal Name	Deadline for Submission
1.	Section 7.1	Time Schedule	14 days after the Effective Date
2.	Section 7.3	Updated Time Schedule	On a monthly basis
3.	Section 7.5	Four week look-ahead schedule reviews	On a weekly basis
4.	Section 9.2	Quality Management Plan	30 days after the Effective Date
5.	Section 10.1	Respect in the Workplace Plan	14 days after the Effective Date
6.	Section 16.1	Pre-Construction survey	Prior to the start of Construction
7.	Section 16.1	Monitoring surveys	At six month intervals (or such intervals as otherwise agreed by the Owner) and six months after Substantial Completion
8.	Section 20.2	Design Package A	45 days after the Effective Date
9.	Section 20.2	Design Package B	By the date set forth in the Time Schedule
10.	Section 20.2	Design Package C	By the date set forth in the Time Schedule
11.	Section 20.2	Design Package D	By the date set forth in the Time Schedule
12.	Section 20.4	"issued for construction" Drawings and Specifications	After review and approval of the Design Packages by the Owner

13.	Section 23.2	Chain of custody documentation for raw materials	Before commencing any Work using such raw materials
14.	Section 27.1	Project Management Plan	30 days after the Effective Date
15.	Section 33.5	Health and Safety Plan	30 days after the Effective Date
16.	Section 35.1	Commissioning Plan	180 days before the Target Substantial Completion Date
17.	Schedule 1, Section 2.4.2.1	Facility Threat and Risk Assessment	With Design Package B
18.	Schedule 1, Section 2.4.2.1	Network Threat and Risk Assessment	With Design Package C
19.	Schedule 1, Section 5.7.2.1(a)	Mechanical sizing calculations	With Design Package C
20.	Schedule 1, Section 5.7.8.2	Acoustical consultant's report	90 days after the Effective Date
21.	Schedule 1, Section 5.4.10.1	5-year site establishment and landscape manual	60 days before the Target Substantial Completion Date
22.	Schedule 1, Section 5.5.6.2(b)	Moisture Management Plan	90 days after the Effective Date
23.	Schedule 1, Section 6.8.3.2(c)(iii)	Key Schedule	With Design Package D
24.	Schedule 1, Section 6.11.6.2(c)	Locker numbering plan	With Design Package D
25.	Schedule 1, Section 7.2.2.2(b)	Independent laboratory testing of potable water system	90 days before the Target Substantial Completion Date
26.	Schedule 1, Section 7.5.1.1(g)	Electrical demand load calculations	With Design Package A
27.	Schedule 1, Section 7.5.3.1(d)	Arc flash report	With Design Package D
28.	Schedule 1, Section 7.5.3.1(i)	Short circuit coordination study	With Design Package D

29.	Schedule 1, Section 7.6.10.1(d)(vi)	Wireless Heat Map coverage plan	With Design Package C
30.	Schedule 1, Section 7.7.28.6	Disaster Recovery Plan	With Design Package C
31.	Schedule 8, Section 2.2(b)	Updated Energy Model	With each Design Package and with the application for the Substantial Completion Certificate
32.	Schedule 8, Section 3.2(b)	Updated Embodied Carbon Design Report	With each Design Package
33.	Schedule 8, Section 3.2(e)	Updated Embodied Carbon Construction Report	Quarterly during Construction
34.	Schedule 11, Section 2.1	Chance Find Procedure	45 days of the Effective Date and prior to any excavation or ground altering activities on the Site
35.	Schedule 12, Section 2.1	Indigenous Requirements Report	Quarterly from the Effective Date until the Substantial Completion Date
36.	Schedule 1, Section 7.5.26	Load shedding system and matrix design	With Design Package C

### 3. REQUIRED MOCK-UP SUBMITTALS SUMMARY

- 3.1 Without limiting any other Submittal requirement appearing in this Agreement (including the Schedules hereto and associated Appendices), the Design-Builder will provide the following mock-up Submittals of prototype rooms of the Building to the Owner in accordance with the timelines set out below:

#	Area/Item	Mock-Up Type	Deadline for Submission
1.	Lobby	VR simulation*	With Design Packages B, C and D
2.	Circulation Spine	VR simulation*	With Design Packages A and B
3.	Office Area	VR simulation*	With Design Packages A and B

4.	All Labs	VR simulation*	With Design Packages A and B
5.	All Learning Access Areas	VR simulation*	With Design Packages A and B
6.	Typical Collection Storage Area	VR simulation*	With Design Packages A and B
7.	All exterior façade views	Perspective(s)	With Design Packages A and B

*\*Note: Virtual reality (VR) simulation means an interactive three-dimensional computer-generated model where by the use of a VR headset the user can view the surroundings from a 360 degree perspective typically from the centre of the room. The computer-generated model will illustrate all finishes, furniture and equipment detail as part of the designated area.*

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**SCHEDULE 3  
INSURANCE CONDITIONS**

Without restricting the generality of the indemnification provisions in Section 59, insurance and coverage will be arranged and paid for as follows:

**1. WRAP-UP LIABILITY INSURANCE**

- 1.1 The Owner will provide, maintain and pay for Wrap-up Liability Insurance with a limit of \_\_\_\_\_ inclusive per occurrence, \_\_\_\_\_ general aggregate for bodily injury, death, and damage to property including loss of use thereof, product/completed operations liability with a limit of \_\_\_\_\_ aggregate.
- 1.2 This insurance will cover the Owner, Design-Builder, Subcontractors, Architects, Professional Engineers, and anyone employed by them to perform a part or parts of the Work (includes both Construction and Design services, but excludes all professional services, under this Agreement) but excluding suppliers whose only function is to supply and/or transport products to the project site or security protection Persons providing site protection on or at the insured project. The insurance does not extend to any activities, works, jobs or undertakings of the insureds other than those directly related to the Work of this Agreement.
- 1.3 The insurance will preclude subrogation claims by the insurer against anyone insured hereunder.
- 1.4 The insurance will include coverage for:
- (a) Products or Completed Operations Liability;
  - (b) Blanket Contractual Liability;
  - (c) Cross Liability;
  - (d) Contingent Employer's Liability;
  - (e) Personal Injury Liability;
  - (f) Shoring, Blasting, Excavating, Underpinning, Demolition, Piledriving and Caisson Work, Work Below Ground Surface, Tunneling and Grading, as applicable;
  - (g) Liability with respect to Non-Owned Licensed Vehicles (no less than \_\_\_\_\_);
  - (h) Broad Form Property Damage;
  - (i) Broad Form Completed Operations;
  - (j) Limited Pollution Liability
  - (k) Employees as Additional Insureds;
  - (l) Broad Form Tenants Legal Liability
  - (m) Operation of Attached Machinery; and

(n) Forest Fire Fighting Expenses

- 1.5 Any applicable deductibles will not exceed \_\_\_\_\_ except with respect to loss or damage arising from hot roofing operations where the deductible will not exceed \_\_\_\_\_
- 1.6 This insurance will be maintained continuously from commencement of the Work until Substantial Completion of the Project, plus cover completed operations for a further period of \_\_\_\_\_ .

**2. PROFESSIONAL LIABILITY INSURANCE**

2.1 The Design-Builder or the Design-Builder's Consultant during the term of this Agreement will provide and maintain continuously from the commencement of the Work, until two years after Substantial Completion of the Project, the following insurance which will be placed with such company or companies and in such form and amounts and with such deductibles as may be acceptable to the Owner:

(a) Project-Specific Professional Errors and Omissions Liability Insurance, protecting the Design-Builder or the Design-Builder's Consultant, sub-consultant(s) and their respective servant(s), agent(s) or employee(s) against any loss or damage arising out of the Design under this Agreement. Such insurance will be for the adequate amount acceptable to the Owner and will in any event be not less than \_\_\_\_\_ per claim and with a limit of \_\_\_\_\_ aggregate, such limits to be dedicated specifically to the Project; and

(b) any applicable deductibles will not exceed \_\_\_\_\_

2.2 If coverage is provided by the Design-Builder's Consultant, then such Professional Errors and Omissions Liability Insurance will not contain a "Design-Build" exclusion.

**3. PROPERTY COVERAGE INSURANCE**

3.1 The Owner will provide, maintain and pay for Course of Construction coverage, against "All Risks" of direct physical loss or damage including flood and earthquake, and will cover all materials, property, structures and equipment purchased for, entering into, or forming part of the Work whilst located anywhere within Canada during construction, erection, installation and testing, but such coverage will not include coverage for Design-Builder's and Subcontractors' equipment of any description. Such coverage will be maintained from the commencement of construction work on the Site until Substantial Completion of the Project. There will be a deductible of \_\_\_\_\_ for each and every occurrence except for: (a) water damage resulting from, but not limited to, flooding or sewer backup, which will have a deductible of \_\_\_\_\_ for each and every occurrence; and (b) the peril of earthquake, which will have a \_\_\_\_\_ (subject to minimum \_\_\_\_\_ deductible for each and every occurrence based upon the total project value insured. A one day waiting period for each month of the project duration subject to a minimum waiting period of 30 days will apply with respect to soft costs.

3.2 The coverage will include as a protected entity, each Design-Builder, Subcontractor, Architect or Professional Engineer who is engaged in the Project.

3.3 The coverage will contain a waiver of the Owner's rights of subrogation against all protected entities except where a loss is deemed to have been caused by or resulting from any error in design or any other professional error or omission, or manufacturers (not employees of the insured).

3.4 The Design-Builder will, at his own expense, take special precaution to prevent fires occurring in or about the Work and will observe, and comply with, all insurance policy warranties and all Laws in force respecting fires.

3.5 The Design-Builder will not start any construction work on the Site until four months after the Effective Date and will provide the Owner with at least one month's written notice of its intention to mobilize.

#### **4. AUTOMOBILE LIABILITY INSURANCE**

4.1 The Design-Builder will provide, maintain and pay for, and require all Subcontractors to provide, maintain and pay for Automobile Liability Insurance in respect of all owned or leased vehicles, subject to limits of not less than \_\_\_\_\_ inclusive per occurrence. The insurance will be placed with such company or companies and in such form and deductibles as may be acceptable to Owner.

#### **5. AIRCRAFT AND/OR WATERCRAFT LIABILITY INSURANCE**

5.1 The Design-Builder will provide, maintain and pay for Owned or Non-Owned Aircraft (including Unmanned Aircraft Vehicles) Liability Insurance if used directly or indirectly in the performance of the Work, subject to limits not less than \_\_\_\_\_ inclusive per occurrence for bodily injury, death, and damage to property including loss of use thereof and including aircraft passenger hazard where applicable. The insurance will name the Owner as an additional insured and include a cross liability clause. This insurance shall be maintained continuously from commencement of the work involving aircraft (including unmanned aircraft vehicles) until such work is completed.

5.2 The Design-Builder will provide, maintain and pay for Owned or Non-Owned Watercraft Liability Insurance if used directly or indirectly in the performance of the Work, subject to limits of not less than \_\_\_\_\_ inclusive per occurrence for bodily injury, death, and damage to property including loss of use thereof. The insurance will name the Owner as an additional insured and include a cross liability clause. This insurance shall be maintained continuously from commencement of the work involving watercraft until such work is completed.

#### **6. CONTRACTORS POLLUTION LIABILITY INSURANCE**

6.1 When applicable, the Design-Builder (or Design-Builder's Subcontractors) will require all Subcontractors to provide, maintain and pay for Contractors Pollution Liability insurance with limits no less than \_\_\_\_\_ per occurrence for bodily injury, death, and damage to property including loss of use thereof. Such insurance will include all operations associated with hazardous materials clean-up, removal and/or containment, transit and disposal.

6.2 Any insurance required under this Section 6 must name the Owner as an additional insured, include a cross liability clause and be endorsed to provide the Owner with 30 days' advance written notice of cancellation. If any such insurance is provided on a claims-made basis and that insurance is cancelled or not renewed, such policy must provide a \_\_\_\_\_ extended reporting period. The Design-Builder must cause all Subcontractors to provide to the Owner a Certificate of Insurance confirming all policies and endorsements necessary to comply with the insurance requirements outlined herein, or upon request, a certified copy of the required insurance policy.

## **7. GENERAL**

- 7.1 The description of the Owner arranged insurance described herein is provided on a summary basis only and is not a statement of the actual policy terms and conditions. The Owner does not represent or warrant that the Owner arranged insurance contains insurance for any and all losses. It is the Design-Builder's responsibility to ascertain the exact nature and extent of coverage provided by the Owner arranged insurance, to review all policies pertaining thereto and to obtain any other insurance that it may be prudent for the Design-Builder to obtain.
- 7.2 The Design-Builder will also provide, maintain and pay for any other insurance that the Design-Builder is required by law to carry, or which the Design-Builder considers necessary.
- 7.3 Unless specified otherwise, the duration of each coverage and insurance policy will be from the date of commencement of the Work until the Substantial Completion Date.
- 7.4 The Owner will, upon request, provide the Design-Builder with proof of insurance of those coverages and insurances required to be provided by the Owner prior to commencement of the Work (or such later date as such insurance is required to be provided) and subsequent certified copy of policies within a reasonable time period thereafter.
- 7.5 The Design-Builder and/or its Subcontractors, the Design-Builder's Consultants and sub-consultants as may be applicable, will be responsible for any deductible amounts under the policies of coverage and insurance except for perils of flood and earthquake.
- 7.6 The Design-Builder will provide the Owner with proof of insurance for those insurances required to be provided by the Design-Builder (or Design-Builder's Consultant) prior to the commencement of the Work in the form of a completed Certificate of Insurance and will also provide a certified copy of any required policies, once available, upon request.
- 7.7 The Owner will not be responsible for injury to the Design-Builder's employees or for loss or damage to the Design-Builder's or to the Design-Builder's employees' machinery, equipment, tools or supplies which may be temporarily used or stored in, on or about the premises during construction and which may, from time to time, or at the termination of this Agreement, be removed from the premises. The Design-Builder hereby waives all rights of recourse against the Owner or any other contractor with regard to damage to the Design-Builder's property.
- 7.8 If the Design-Builder fails to provide, maintain and pay for insurance as required by this schedule, other than automobile liability insurance, the Owner may obtain and pay for the required insurance, the cost of which will be payable on demand by the Design-Builder. The Owner may offset such amounts from any monies due to the Design-Builder if not paid within 15 days.

## **SCHEDULE 4 COMMUNICATION ROLES**

The Owner and the Design-Builder will share responsibilities for communications, including community relations, stakeholder consultation, media relations and emergency communications on the terms set out in this Schedule.

### **1. GENERAL**

- 1.1 The Design-Builder will be guided by the Owner's best practices regarding communications. Unless otherwise specified by the Owner, the governing document relating to best practices will be the disclosure guidance document entitled "Procurement Related Disclosure for Major Infrastructure Projects" posted at <https://www.infrastructurebc.com/>.
- 1.2 The Design-Builder will consult and cooperate with the Owner regarding communications activities relating to the Project.
- 1.3 The desired outcome of communications activities is to inform and involve the public and other stakeholders about the progress, value and benefits of the Project and to develop and maintain support for the Project.
- 1.4 Communications strategies and plans involving the interests of both parties are to be prepared on a joint basis, with one party taking a lead role and the other a supporting role, as described in this Schedule.
- 1.5 Where communications strategies and plans involve the interests of both parties, each party will give the other a reasonable opportunity (taking into account the need for timely communications) to consider communications strategies and plans initiated by the other and, if information is supplied by a party, it should include or be accompanied by sufficient explanatory or other material to enable the information to be properly considered.
- 1.6 The Design-Builder will consider and, acting reasonably, take into account, public and other stakeholder input in regard to its plans for the Design and Construction.
- 1.7 This Schedule is a guideline and may be amended by mutual agreement. Non-compliance with this Schedule by either party will not constitute a breach of this Agreement.
- 1.8 No communication regarding the subject matter of a Dispute, including one resolved under Section 64 (Dispute Resolution) of this Agreement, will be made without the prior written consent of the Owner or the Design-Builder, as the case may be, unless otherwise ordered under the Dispute resolution procedure.
- 1.9 The Design-Builder acknowledges that FIPPA applies to the Owner, that nothing in this Schedule limits any requirements for compliance with FIPPA and that the Owner may be required to make disclosure of information under FIPPA.
- 1.10 The Design-Builder acknowledges that the Owner will be free to disclose (including on Websites) this Agreement and any and all terms hereof, except for those portions that would not be required to be disclosed under FIPPA. The Owner will consult with the Design-Builder prior to such disclosure.
- 1.11 Except for Section 1.10, this Schedule is subject to the parties' obligations in respect of Confidential Information pursuant to Section 67 of this Agreement.

## **2. CATEGORIES OF COMMUNICATIONS**

2.1 The following categories of communications are covered by this Schedule and each category applies during the Construction period:

- (a) Communications Planning: the Design-Builder will be provided with a copy of parts of the Project Communications Plan prepared by the Owner and applicable to this Project and will support the implementation of the strategies and activities listed in it;
- (b) Community Relations: keeping all key audiences including external and internal Project stakeholders (as identified in communications plans) informed, including providing overall Project information, including information about schedule, design, construction (including traffic management), facilities management and other services, using any and all appropriate communications tools and tactics;
- (c) Consultation: engaging in discussions with Project stakeholders;
- (d) Media Relations: providing media with Project updates and responding to issues raised by the media; and
- (e) Emergency Communications: preparing and implementing crisis communications planning and preparedness.

## **3. LEAD AND SUPPORTING ROLES**

3.1 Within each category of communications set out in Section 2 of this Schedule, the Design-Builder will play either a lead or supporting role, working with the Owner to achieve the desired communications outcomes.

3.2 For all categories of communication, and whether communication occurs as part of a lead or supporting role, no advertising that involves payment, by the Design-Builder, to a third party may include the Owner or the Project unless the Design-Builder obtains the prior consent of the Owner, not to be unreasonably withheld or delayed.

## **4. LEAD RESPONSIBILITIES**

4.1 The following is an overview of the responsibilities associated with lead roles:

- (a) developing an overall strategic communications plan for the Project, that includes plans for communications, community relations, consultation, media relations and emergency communications;
- (b) having regard for the input of the supporting party, approving communication plans and tactics in response to specific circumstances, unless otherwise indicated in this Schedule;
- (c) implementing its role in approved plans;
- (d) achieving the outcomes set out in the strategic communication plan;
- (e) maintaining constructive and positive relationships with the public and other stakeholders;
- (f) providing information, as required by the supporting party and its team members, to support communication and consultation activities;

- (g) as relevant to its lead role, organizing, attending and participating in community and other stakeholder consultation meetings and carrying out other communication activities to consult with and report back to the community and other stakeholders, including open houses, information updates, public displays, advertising, website creation, maintenance updates, construction notices, milestone celebration events, news releases and tours, and directing inquiries to the supporting party as appropriate;
- (h) assuming responsibility for costs related to carrying out lead responsibilities to a standard acceptable to the Owner, in the amounts and in the manner approved by the Owner;
- (i) monitoring whether the Design and Construction are conducted in a manner consistent with strategic communication plans and advising the parties of any material inconsistency; and
- (j) having a trained media relations spokesperson available 24/7 to respond to media requests.

## **5. SUPPORTING RESPONSIBILITIES**

5.1 The following is an overview of the responsibilities associated with supporting roles:

- (a) assisting with the implementation of plans, including drafting of other communication documents, as directed by the lead party;
- (b) implementing its role in approved plans;
- (c) maintaining constructive and positive relationships with the public and other stakeholders;
- (d) providing information, as required by the lead party and its team members, to support communication and consultation activities;
- (e) as relevant to its supporting role, organizing, attending and participating in community and other stakeholder consultation meetings and carrying out other communication activities to consult with and report back to the community and other stakeholders, including open houses, information updates, public displays, advertising, website creation, maintenance updates, construction notices, milestone celebration events, news releases and tours, and directing inquiries to the lead party as appropriate;
- (f) assuming responsibility for costs related to carrying out supporting responsibilities to a standard acceptable to the Owner, in amounts and in a manner approved by the Owner; and
- (g) having a local, trained media relations spokesperson available 24/7 to respond to media requests.

## **6. ALLOCATION OF LEAD AND SUPPORTING ROLES**

6.1 The lead and supporting roles will be allocated as set out in the following table, unless otherwise required by the Owner in consultation with the Design-Builder:

CATEGORY	LEAD	SUPPORTING
Communications Planning	Owner	Design-Builder
Community Relations	Owner	Design-Builder
Consultation	Owner	Design-Builder
Media Relations	Owner	Design-Builder
Emergency Communications Relating to existing Owner employees, programs, services and facilities; and Design-Builder performance	Owner	Design-Builder
Emergency Communications related to Design-Builder Site health and safety	Design-Builder	Owner
Construction	Owner	Design-Builder
Moves	Owner	Design-Builder
Traffic	Owner	Design-Builder
Noise	Owner	Design-Builder

**7. OWNER RIGHT TO STEP IN AT DESIGN-BUILDER'S COST**

7.1 If the Design-Builder is required to take a lead role but fails to comply with its obligations under this Schedule in any material respect, the Owner may give reasonable notice to the Design-Builder that it intends to undertake and assume the lead role obligations of the Design-Builder, at the expense of the Design-Builder, including all direct costs of engaging third party assistance with communication responsibilities and all direct costs of the Owner in connection with fulfilling the Design-Builder's obligations under this Schedule.

**SCHEDULE 5  
KEY INDIVIDUALS**

<u>Individual's Name</u>	<u>Company Name</u>	<u>Role</u>	<u>Functions</u>
Reuben Scholtens	Maple Reinders Constructors Ltd.	Design-Builder's Representative	Represents the Design-Builder, as set out in the Agreement
Dusko Grambozov	Maple Reinders Constructors Ltd.	Design-Build Director	Represents the Design-Builder. and has overall responsibility to design and build the Project.  Responsible for the day-to-day direction, management and coordination of all of the Design and Construction.  Authorized to give direction on all Design and Construction responsibilities and decisions.
Eric Karsh	Equilibrium Consulting Inc.	Mass Timber Specialist	Responsible for mass timber related components of the Project.
Michael Green	Michael Green Architecture Ltd.	Lead Architect	Responsible for leading all of the Design and overseeing the delivery and coordination of all disciplines.
Ken Smyth	Maple Reinders Constructors Ltd	Design-Build Construction Manager	Responsible for leading the Construction of the Project, including the day-to-day direction, management and coordination of all of the Construction.  Authorized to give direction on all Construction responsibilities and decisions.

**SCHEDULE 6  
SCHEDULE OF PRICES**

The Contract Price represents the entire compensation to the Design-Builder by the Owner for any and all costs related to the Work, including but not limited to all fees, contingencies and all duties and taxes, excluding GST payable by the Owner to the Design-Builder.

The attached schedule is a breakdown of the Contract Price solely for the purpose of assisting the parties to develop the Schedule of Values, and will not be used or relied upon by the Design-Builder for any purpose.

<b>Breakdown of Contract Price</b>	<b>Value</b>
<b>HARD COSTS</b>	
Division 1a - Procurement and Contracting	\$
Division 1b - Site Mobilization	\$
Division 1c - Temporary Facilities and Control	\$
Division 2 - Existing Conditions [Not Used]	\$
Division 3 - Concrete	\$
Division 4 - Masonry	\$
Division 5 - Metals	\$
Division 6 - Wood, Plastics, and Composites	\$
Division 7 - Thermal and Moisture Protection	\$
Division 8 - Openings	\$
Division 9 - Finishes	\$
Division 10 - Specialties	\$
Division 11a - Equipment	\$
Division 11b - Collections Storage Assemblies	\$
Division 12 - Furnishings	\$
Division 13 - Special Construction	\$
Division 14 - Conveying Equipment	\$
Division 21 - Fire Suppression	\$
Division 22 - Plumbing	\$
Division 23 - Heating, Ventilating, and Air Conditioning (HVAC)	\$
Division 25 - Integrated Automation	\$
Division 26 - Electrical	\$
Division 27 - Communications	\$
Division 28 - Electronic Safety and Security	\$
Division 31 - Earthwork	\$
Division 32 - Exterior Improvements	\$
Division 33 - Utilities	\$
Other (Specify)	\$
Other (Specify)	\$
Other (Specify)	\$
<b>Hard Costs Subtotal</b>	<b>\$</b>
<b>SOFT COSTS</b>	
<b>DESIGN-BUILDER'S DIRECT PROJECT MANAGEMENT</b>	
Project Management & Coordination	\$
Direct Site Supervision and Management	\$
Quality Assurance and Control	\$
<b>DESIGN MANAGEMENT FEES</b>	

Architectural Design Fees	\$
Structural Design Fees	\$
Mechanical Engineering Design Fees	\$
Electrical Engineering Design Fees	\$
Civil Engineering Design Fees	\$
Geotechnical Engineering Design Fees	\$
Building Envelope Consultants Fees	\$
Landscape Architect Fees	\$
Code Consultant Fees	\$
Independent Commissioning Agent	\$
Legal Advisor Fees	\$
Equipment Consultant	\$
Collections Storage Assemblies Consultant	\$
LEED Consultant	\$
Other Consultant - Acoustics	\$
Other Consultant - Hardware	\$
Other Consultant - Ecologist/Biologist	\$
Other Consultant - Security	\$
Other Consultant - Wayfinding and Signage	\$
Insurances - P&L. GL etc.	\$
Building Permit	\$
Development Cost Charges	\$
Bonds	\$
<b>Soft Costs Subtotal</b>	<b>\$</b>
<hr/>	
<b>Nominal Cost (Contract Price)</b>	<b>\$ 204,884,000</b>

**SCHEDULE 7  
PROPOSAL EXTRACTS**

See separate document.

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**SCHEDULE 8  
ENERGY AND EMBODIED CARBON TARGETS**

**1. INTERPRETATION**

**1.1 Definitions**

- (a) **"Approved Building Performance Professional"** means an individual who is (i) registered as a Professional Engineer (P.Eng) with Engineers and Geoscientists of British Columbia (EGBC) or as Architect with the Architectural Institute of British Columbia (AIBC) and can serve as Professional of Record taking responsibility for the energy model, (ii) has the Building Energy Modeling Professional (BEMP) designation, and (iii) has experience with appropriate energy modelling software for the Project. The Approved Building Performance Professional will be responsible for the preparation and ongoing updates of the Energy Model.
- (b) **"Building Energy Modeling Professional (BEMP)"** means an individual who has earned the ASHRAE BEMP designation, as listed on ASHRAE website <http://certificants.ashrae.org/>.
- (c) **"Embodied Carbon"** means the net amount of greenhouse gasses emitted during the extraction, manufacturing, transportation, assembly and construction of materials used in the Building expressed as an equivalent value of carbon dioxide emissions (kgCO<sub>2</sub>eq).
- (d) **"Embodied Carbon Construction Report"** means the report prepared by the Embodied Carbon Leader and delivered by the Design-Builder during Construction containing the information required by Section 3(b) of Appendix 8B.
- (e) **"Embodied Carbon Design Report"** means the report prepared by the Embodied Carbon Leader and delivered by the Design-Builder with each Design-Package containing the information required by Section 3(a) of Appendix 8B.
- (f) **"Embodied Carbon Intensity"** means the Embodied Carbon of the Building divided by the total square meters of the Building's Gross Floor Area expressed as kgCO<sub>2</sub>eq /m<sup>2</sup>.
- (g) **"Embodied Carbon Leader"** means the individual who will take responsibility for the Embodied Carbon Model and has demonstrated experience in working with construction drawings and specifications and interpreting embodied carbon reports. The Embodied Carbon Leader will be responsible for the preparation and ongoing updates of the Embodied Carbon Model.
- (h) **"Embodied Carbon Model"** means the whole building analysis that quantifies the Embodied Carbon of the Building as outlined in Appendix 8B and includes the BIM 3D model and associated material definitions applied to the model elements with the approved lifecycle assessment software.
- (i) **"Embodied Carbon Target"** means 229 kgCO<sub>2</sub>eq /m<sup>2</sup>.
- (j) **"Energy"** means electrical energy.
- (k) **"Energy Consumption"** means the total amount of Energy consumed within, by or for the Facility during 365 days of operation.
- (l) **"Energy Model"** means the hourly energy simulation model produced using whole-building energy modelling software and prepared by the Approved Building Performance

Professional per Appendix 8A. The results of the simulations are used to calculate the expected Energy Consumption and the expected operating cost.

- (m) **"Energy Target"** means 163 kWh/m<sup>2</sup>/year, as may be adjusted by the Owner pursuant to Section 2.2(a).
- (n) **"Energy Use Intensity"** or **"EUI"** means the Energy Consumption divided by Modelled Floor Area and expressed as kWh/m<sup>2</sup>/year.
- (o) **"Gross Floor Area"** or **"GFA"** means the total enclosed floor area of the Building measured to the outside face of the cladding.
- (p) **"Modelled Floor Area"** or **"MFA"** means the total enclosed floor area of the Building, measured to the centerline of the exterior wall, as reported by the energy simulation software, excluding exterior areas and indoor (including underground) parking areas. All other spaces, including partially-conditioned and unconditioned spaces, are included in the MFA.
- (q) **"Weather Data"** means the annual hourly weather data for Victoria - Gonzalez, BC (being the nearest weather file available to Colwood (Royal Bay), BC), obtained from (or calculated based on) Environment Canada's "National Climate Data and Information Archive" in TMY or CWEC format.

## 2. ENERGY

### 2.1 Energy Target

- (a) The Design-Builder will design and construct the Facility such that the Energy Model as at Substantial Completion demonstrates that the Energy Use Intensity of the Facility will not exceed the Energy Target.

### 2.2 Energy Target Submittals

- (a) The Design-Builder will, with each Design Package, identify any issues that could potentially impact the Design-Builder's ability to achieve the Energy Target, including any issues that impact the assumptions set out in Appendix 8A. The Owner will review any such issues and will consider, acting reasonably, whether any changes to the Energy Target should be made. If the Design-Builder does not identify an issue when the relevant Design Package is submitted, the Owner will not be required to consider the issue if it is later raised by the Design-Builder and was known, or ought to have been known, by the Design-Builder at the time of submittal of the original Design Package.
- (b) With each of the Design Packages and together with the application for the Substantial Completion Certificate, or at any other point in time where the Owner requests, acting reasonably, the Design-Builder will provide the Owner with an updated Energy Model that demonstrates that the Energy Target will be met.
- (c) If at any time prior to Substantial Completion, the Design-Builder fails to demonstrate that the Energy Target will be met, the Design-Builder will, at its sole cost:
  - (i) revise the Design and re-submit the reviewed Drawings and Specifications, together with an updated Energy Model demonstrating the Energy Target will be met, to the Owner for review under the Review Procedure; and

- (ii) modify the Work as required so that it complies with the revised Drawings and Specifications once they receive a "REVIEWED" comment under the Review Procedure.
- (d) The Owner will not be required to make any payment for any Design or Construction that will cause the Design-Builder to fail to achieve the Energy Target, including where the Design-Builder has failed to deliver an updated Energy Model in accordance with Section 2.2(b). The Payment Certifier will assess any such Design and Construction and determine the amount of a holdback to be retained by the Owner which will equal the estimated cost to correct such Design and Construction. The holdback will be retained by the Owner until the Design and Construction is modified to comply with the revised reviewed Drawings and Specifications that demonstrate that the Energy Target will be met, as determined by the Payment Certifier.

### **2.3 Approved Building Performance Professional**

- (a) The Design-Builder will retain an Approved Building Performance Professional and will cause the Approved Building Performance Professional to:
  - (i) update the Energy Model with each Design Package and as otherwise required by this Schedule;
  - (ii) notify the Design-Builder and the Owner of changes to the expected energy performance of the Facility resulting from each Design Package;
  - (iii) confirm at the time of submittal of each Design Package that the Energy Target will be met; and
  - (iv) provide updates to the Owner relating to the anticipated EUI for the Facility at regular intervals during Construction as reasonably required by the Owner until Substantial Completion.

## **3. EMBODIED CARBON**

### **3.1 Embodied Carbon Target**

- (a) The Design-Builder will design the Building such that the predicted Embodied Carbon Intensity will not exceed the Embodied Carbon Target.
- (b) The parties acknowledge that there is no Embodied Carbon Target applied to the Construction of the Building.

### **3.2 Embodied Carbon Submittals**

- (a) The Design-Builder will, with each Design Package, identify any issues that could potentially impact the Design-Builder's ability to achieve the Embodied Carbon Target, including any issues that impact the assumptions set out in Appendix 8B. The Owner will review any such issues and will consider, acting reasonably, whether any changes to the Embodied Carbon Target should be made. If the Design-Builder does not identify an issue when the relevant Design Package is submitted, the Owner will not be required to consider the issue if it is later raised by the Design-Builder and was known, or ought to have been known, by the Design-Builder at the time of submittal of the original Design Package.

- (b) With each of the Design Packages, the Design-Builder will provide an updated Embodied Carbon Design Report that demonstrates that the Embodied Carbon Target will be met.
- (c) If the Design-Builder at any time during Design fails to demonstrate that the Embodied Carbon Target will be met, the Design-Builder will revise the Design and re-submit to the Owner the revised Embodied Carbon Design Report and any other documentation reasonably requested by the Owner for further review under the Review Procedure.
- (d) The Owner will not be required to make any payment for any Design that will cause the Design-Builder to fail to comply with the Embodied Carbon Target. The Payment Certifier will assess any such Design and determine the amount of a holdback to be retained by the Owner which will equal the estimated cost to correct such Design. The holdback will be retained by the Owner until the Design is modified and an updated Embodied Carbon Design Report shows that the Embodied Carbon Target will be met.
- (e) During Construction, the Design-Builder will update the Embodied Carbon Model in accordance with the guidelines set out in Appendix 8B to incorporate the actual values associated with selected and sourced building materials and provide an updated Embodied Carbon Construction Report on a quarterly basis for review under the Review Procedure. The purpose of reporting during Construction is to provide information for future projects.
- (f) The Owner may request additional information from the Design-Builder during Construction to assist in understanding how decisions made during Design and Construction have impacted the Embodied Carbon in the Building.

### **3.3 Embodied Carbon Leader**

- (a) The Design-Builder will retain or assign a team member as the Embodied Carbon Leader and will cause the Embodied Carbon Leader to:
  - (i) prepare an Embodied Carbon Model that accurately depicts the Design of the Building in accordance with the guidelines set out in Appendix 8B;
  - (ii) update the Embodied Carbon Model on an ongoing basis;
  - (iii) inform the Design-Builder and the Owner of any changes to the proposed Design that will impact the Embodied Carbon performance of the Building;
  - (iv) produce an Embodied Carbon Design Report before each Design Package is submitted; and
  - (v) produce an Embodied Carbon Construction Report on a quarterly basis through Construction.

## APPENDIX 8A - ENERGY MODELLING METHODOLOGY AND ASSUMPTIONS

The intent of this Appendix, including the attached tables, is to provide clarity regarding modelling methodologies and assumptions, especially related to Owner-controlled variables.

### 1. GENERAL

- (a) The Design-Builder will apply the modelling assumptions and methodologies outlined in this Appendix for all Energy Models and supporting documentation submitted in relation to the Energy Target.
- (b) The methodology for producing an Energy Model as described in this Appendix shall take precedence over LEED, ASHRAE 90.1-2010 Appendix G Rating Method, NECB Performance Compliance or other protocols. Where not specified herein, the Design-Builder will follow modelling procedures in accordance with protocols of LEED and ASHRAE 90.1-2010 Appendix G Performance Rating Method.
- (c) The Design-Builder acknowledges and agrees that:
  - (i) a 'baseline' or 'reference' building simulation is not required for the Energy Target;
  - (ii) compliance with the Energy Target provisions of Schedule 8 is required regardless of simulation and calculation tools, or techniques employed by the Design-Builder; and
  - (iii) the referenced Tables A1, A2, A3 and A4 are included at the end of this Appendix.
- (d) The Energy Model will be prepared using IES Virtual Environment, or a simulation engine approved by the Owner that has the abilities set out in Section 1(e) of this Appendix.
- (e) If the Design-Builder wishes to use a simulation engine other than IES Virtual Environment as contemplated by Section 1(d) of this Appendix, that simulation engine shall be subject to approval by the Owner and, at a minimum, have the ability to model:
  - (i) 8760 hours per year;
  - (ii) hourly variations in occupancy, lighting power, miscellaneous equipment;
  - (iii) HVAC system operation variations in setpoints and schedules;
  - (iv) part-load performance curves for systems & equipment; and
  - (v) output time-series variables in the following electronic file format:
    - (1) tab- or comma-separated values; and
    - (2) spreadsheet files.
- (f) For calculations the Energy Model software cannot perform, the Design-Builder will export time-series output data from the Energy Model software into a spreadsheet application capable of performing such calculations. The Design-Builder will document such calculations and include them as Submittals with each Energy Model required to be submitted to the Owner.

- (g) The Energy Model will use ASHRAE 90.1 definition of conditioned, semi-conditioned and unconditioned spaces.
- (h) Energy modelling methodology and assumptions will include provisions for Class A1 control of temperature and relative humidity as defined in the 2019 ASHRAE Handbook – HVAC Applications, Chapter 24: Museums, Galleries, Archives, and Libraries.
- (i) For any assumption the Design-Builder wishes to use in the Energy Model that is not described in this Appendix, the Design-Builder will submit a description of such assumption to the Owner for review and approval.

## **2. ENERGY MODEL REPORTING CONTENT**

- (a) Each Energy Model Report will include:
  - (i) an executive summary;
  - (ii) a statement of the software used including the version number;
  - (iii) a summary of MFA broken down into:
    - (1) total MFA (m<sup>2</sup>);
    - (2) conditioned area (m<sup>2</sup>);
    - (3) semi-conditioned area (m<sup>2</sup>); and
    - (4) unconditioned area (m<sup>2</sup>);
  - (iv) a description of modelled building systems;
  - (v) a description of modelling methodologies, including supplemental calculations as described in Section 1(f) of this Appendix;
  - (vi) a detailed summary of all Energy Model inputs and assumptions, including any assumptions approved by the Owner as contemplated by Section 1(i) of this Appendix;
  - (vii) output summary reports from the energy simulation software, including annual Energy Consumption, energy cost and unmet load hours; and
  - (viii) calculations and results for:
    - (1) total Facility annual Energy Consumption, both as MWh and Energy Use Intensity (kWh/m<sup>2</sup>/year); and
    - (2) total Facility energy cost, as \$/year and monthly.
- (b) Each Energy Model Report will use the format of Tables A1, A2 and A3 for submission of the Energy Target results.

**3. INPUT SUMMARY REPORTING**

- (a) Use the template provided in Table A4, or a greater level of detail, to document key energy modelling inputs and assumptions.

**4. OUTPUT VARIABLE REPORTING**

- (a) At the discretion of the Owner, hourly output variables of the simulation will be submitted by the Design-Builder in electronic format.

**5. WEATHER DATA**

- (a) The weather data to be used for the Energy Model is the Weather Data.

**6. UTILITY RATES**

- (a) Utilize utility rates per the following table. The “Blended Electricity” cost includes all rates such as consumption charges, demand charges, tax, and carbon tax.

**Table 1: Utility Rates**

Utility	Energy Costs
Blended Electricity	0.094 \$/kWh (BC Hydro – Large General Service Zone I)

**7. ENVELOPE MODELLING METHODOLOGY**

- (a) Dimensions and Building assemblies will be as specified in the latest Drawings and Specifications.
- (b) Any windows, curtainwall and spandrel panels must include the thermal bridging impact of framing and installation, using NFRC 100 Standard Procedures, BC Hydro’s Building Envelope Thermal Bridging Guide, and/or Fenestration Association of BC (FENBC) Reference Procedure for Simulating Spandrel U-Factors.
- (c) Building opaque thermal performance must account for variations in construction types and assemblies, above and below grade.
- (d) Thermal bridging from major structural penetrations, such as balcony slabs, beams, girders, columns, and ornamentation or appendages that must completely penetrate the Building envelope to perform their intended function will be included in the calculations for thermal heat transfer.
- (e) Thermal bridging from structural penetrations that partly penetrate the Building envelope assembly, such as slab edges, will be included in the calculations for thermal heat transfer.
- (f) Infiltration: 0.2(L/s)/m<sup>2</sup> of total gross above-ground wall and roof areas unless a lower rate can be justified with design and implementation measures. This rate is at ambient pressure (5 Pa).

- (g) For thermal bridges to be included and excluded, follow the methodology outlined in City of Vancouver Energy Modelling Guideline v.2.0, Section 3.
- (h) Overall opaque assembly U-values must be determined using the Enhanced Thermal Performance Spreadsheet (available from BC Hydro New Construction Program).
- (i) Performance data for clear fields and interface details from the Building Envelope Thermal Bridging Guide (BETBG), and the calculation methodology as outlined in the BETBG.

## **8. THERMAL ZONES**

- (a) Thermal zones in the simulation are to reflect the zones in the Design except in cases where doing so would cause simulation issues or inaccuracies, such as:
  - (i) zones served by single-zone equipment such as cooling fan coils and ventilation air provided by a central VAV system; or
  - (ii) large, open spaces served by multiple air terminals or supplemental HVAC units.
- (b) Internal loads of thermal zones will be based on the sum of internal loads applied to the spaces within the thermal zones.
- (c) Schedules and temperature settings will be applied to thermal zones based on those of the dominant space when appropriate.
- (d) Core zones may be combined provided they :
  - (i) have the same internal load density (lighting, plug & process loads, and occupant);
  - (ii) have the same minimum outdoor air and supply air exchange rates;
  - (iii) are served by the same air system and no zone supplemental equipment; and
  - (iv) have the same operating schedules.
- (e) Perimeter zones may be combined, provided they:
  - (i) meet the criteria outlined in Section 8(d) of this Appendix;
  - (ii) have the same ratio of net floor area to:
    - (1) design cooling airflow;
    - (2) design heating airflow; and
    - (3) perimeter heating capacities,within a tolerance of 10%;
  - (iii) have the same exterior surface and window constructions, and shading elements;

- (iv) have the same ratio of net floor area to exterior wall and window areas within a tolerance of 10%;
- (v) have exterior surfaces that face the same direction within a tolerance of 10°; and
- (vi) are completely shaded, or are completely unshaded by topographical features or by surfaces of the building itself.

**9. ZONE INDEPENDENT ASSUMPTIONS**

- (a) All energy modelling inputs applicable to the simulation will adhere to the following table:

Ref	Department/ Component	NECB Reference	Internal Gain and DHW Schedule (NECB 2015)	Occupant Density, m2/ occupant	Receptacle, W/ m2	Service Water, W/ occupant	Lighting, W/m2	HVAC Schedule (NECB 2015)	Temp Setpoint	Humidity Setpoint	Ventilation Rate (L/s/m2)
		NECB - 2015 Table A-8.4.3.2. (2) - B						Table 4.2.1.6	Deg C	RH%	
A	Lobby	Lobby - other	C	10	1	0	9.7	C	22-24	None	2.4
B	Circulation and Corridors	Corridor/transition area - other	C	100	1	0	7.1	C	22-24	None	0.25
C	Human History & PDP Lab	Laboratory - other	A	20	10	180	19.5	24/7	22	50%	3
	Human History Collections storage	Storage - >100m2	A	200	1	0	6.8	24/7	18	50%	0.75
D	BC Archaeology collections	Storage - >100m2	A	200	1	0	6.8	24/7	18	50%	0.75
E	Archives lab	Laboratory - other	A	20	10	180	19.5	24/7	22	50%	3
	Archives storage	Storage - >100m2	A	200	1	0	6.8	24/7	18	50%	0.75
	Archives Cool & Cold Vault	Storage - >100m2	A	-	1	0	6.8	24/7	4	50%	0.75
F	Conservation and digitization lab	Laboratory - other	A	20	10	180	19.5	24/7	22	50%	3
G	Botany & entomology lab	Laboratory - other	A	20	5	180	11	24/7	22	50%	3

Ref	Department/ Component	NECB Reference	Internal Gain and DHW Schedule (NECB 2015)	Occupant Density, m2/ occupant	Receptacle, W/ m2	Service Water, W/ occupant	Lighting, W/m2	HVAC Schedule (NECB 2015)	Temp Setpoint	Humidity Setpoint	Ventilation Rate (L/s/m2)
	Botany & entomology collections	Storage - >100m2	A	200	1	0	6.8	24/7	18	50%	0.75
H	VZ/IZ & Shared Biology lab	Laboratory - other	C	20	10	180	19.5	24/7	22	50%	3
	VZ/IZ & Shared Biology collections	Storage - >100m2	A	200	1	0	6.8	24/7	18	50%	0.75 (*)
I	Paleontology lab	Laboratory - other	C	20	5	180	11	24/7	22	50%	3
	Paleontology collection	Storage - >100m2	C	200	1	0	6.8	24/7	18	50%	0.75
J	Learning access areas	Conference/ Multipurpose	C	5	1	45	13.3	C	22-24	None	5
K	Electrical	Electrical/Mechanical	A	200	1	0	4.6	A	22-24	none	0
L	Chinese Canadian collection	Storage - >100m2	A	200	1	0	6.8	24/7	18	50%	0.75
M	Offices	Office - open plan	A	20	7.5	90	10.6	A	22-24	none	0.7
N	Future collection growth areas (storage)	Storage - >100m2	A	200	1	0	6.8	24/7	18	50%	0.75
O	Central shared services (storage)	Storage - >100m2	A	200	1	0	6.8	A	22-24	none	0.75
P	Shared facilities										
	a. Storage	Storage - >100m2	A	200	1	0	6.8	A	22-24	none	0.75
	b. Offices	Office - open plan	A	20	7.5	90	10.6	A	22-24	none	0.7
	c. Washroom	Washroom - other	A	30	1	0	10.5	A	22-24	none	25L/s/unit exhaust
Q	MEP Support Area	Storage - >100m2	A	200	1	0	6.8	A	22-24	none	0.75

Ref	Department/ Component	NECB Reference	Internal Gain and DHW Schedule (NECB 2015)	Occupant Density, m2/ occupant	Receptacle, W/ m2	Service Water, W/ occupant	Lighting, W/m2	HVAC Schedule (NECB 2015)	Temp Setpoint	Humidity Setpoint	Ventilation Rate (L/s/m2)
R	Technology systems (Server & Panel)	Electrical/Mechanical	A	200	1	0	4.6	A	22-24	none	0
S	Shared building loading		A	100	1	0	10.6	A	22-24	none	0
T	Loading area: Shared collections, learning, exhibits	Laboratory - other	A	100	10	0	10.6	24/7	22	50%	3

(\* Except apply 5.1 L/s/m2 ventilation for Room 4.504 – IZ/VZ Fluid Preserve

## 10. AIR SYSTEMS

- (a) For total supply air flow in Laboratory spaces, use air change rates per Clause 7.3.5.2 (a) of the Statement of Requirements.
- (b) Air System Heat Recovery
- (i) If the simulation engine's heat recovery algorithm cannot accommodate adjusting the parameters of the fraction of actual-to-nominal airflow, the nominal effectiveness is to be adjusted so that the simulated effectiveness is less than or equal to the rated effectiveness throughout the range of airflow ratios.
  - (ii) If exhaust-to-supply-air enthalpy wheels are incorporated in the Design, latent effectiveness should be simulated if the Design employs capacity modulation by air-bypass.
  - (iii) If the heat recovery capacity modulation is accomplished by varying the wheel's angular velocity, latent effectiveness may only be simulated if:
    - (1) a detailed performance map from the device manufacturer is used showing sensible effectiveness as a function of angular velocity and latent effectiveness as a function of angular velocity;
    - (2) both dew-point and temperature setpoint control for heat recovery can be accommodated;
    - (3) the simulation engine's heat recovery algorithm can calculate both dew-point and temperature setpoint control, and:
      - (A) latent effectiveness will be a function of modulated sensible effectiveness; and

(B) sensible effectiveness will be a function of modulated latent effectiveness and

(4) the heat recovery equipment manufacturer guarantees performance as stated.

(c) Controls

(i) The simulation engine utilized by the Design-Builder will have the ability to model temperature set point control with a deadband no greater than 0.5°C.

(ii) Zone temperature and ventilation setbacks are permitted per the HVAC schedule noted in the table in Section 9(a) of this Appendix.

**11. PROCESS AND MISCELLANEOUS LOADS**

(a) Exterior lighting load as per Design-Builder’s lighting design.

(b) Service water heating load will be per the table in Section 9(a) of this Appendix.

(c) Electrical Losses

(i) For transformer losses in electrical rooms, schedule the loss based on the actual load on the transformer and the efficiency of the transformers.

(ii) Create polynomial curves based on the 4 part-load efficiency points specified by DOE 10 CFR Part 431 2016 / NRCAN 2019 Energy Efficiency Requirements for MVDT Transformers.

**12. APPENDED TABLES**

The Design-Builder will use the following tables to show the energy modelling inputs and results.

(a) **Table A1 – Energy Use Intensity and Energy Cost Monthly Summary**

	Energy Cost [\$]	Energy Use [MWh]
January		
February		
March		
April		
May		
June		
July		

August		
September		
October		
November		
December		
Annual TOTAL		
Annual EUI		[kWh/m2/yr]

(b) **Table A2 – Energy Consumption by End-Use Breakdown**

<b>Energy Consumption by End-Use</b>	
<b>End-Use</b>	<b>Electricity [MWh/yr]</b>
Interior Lights	
Task Lights	
Exterior Lights	
Fans	
Pumps	
Cooling & Heat Reject.	
Process Cooling	
Heat Pumps	
Heating	
Humidification	
Service Water Heating	
Receptacles	
Elevators & Escalators (if used)	
Other Process	

<b>Energy Consumption by End-Use</b>	
<b>End-Use</b>	<b>Electricity [MWh/yr]</b>
Miscellaneous	
<b>Total</b>	

(c) **Table A3 – Energy Use Intensity by End-Use**

<b>Energy Use Intensity by End-Use</b>	
<b>End-Use</b>	<b>Electricity [kWh/m<sup>2</sup>/yr]</b>
Interior Lights	
Task Lights	
Exterior Lights	
Fans	
Pumps	
Cooling & Heat Reject.	
Process Cooling	
Heat Pumps	
Heating	
Humidification	
Service Water Heating	
Receptacles	
<b>Total</b>	

(d) **Table A4 – Energy Model Input Summary Table**

Inputs	Energy Model Assumptions Reporting
Software used and version	
Climate Zone & Weather File	
Building Floor Area and MFA	
Hours of operation	
<b>Utility Rates &amp; Emission Factors</b>	
Electricity	
Other Fuel Sources	
<b>Envelope Performance</b>	
Roof RSI-value (effective) (m <sup>2</sup> K/W)	For each type
Wall Above Grade Effective RSI -value (m <sup>2</sup> K/W)	For each type
Wall Below Grade Effective RSI -value (m <sup>2</sup> K/W)	For each type
Slab on grade F-Factor (W/mK)	
WWR Glazing (%)	
Glass USI-value including frame (W/m <sup>2</sup> K), and Solar Heat Gain Coefficient (SHGC)	For each type
Shading Devices	
Infiltration Rate	
<b>Internal Loads</b>	
Occupant Density & Schedule	

<b>Inputs</b>	<b>Energy Model Assumptions Reporting</b>
Lighting Power Density & Schedule	
Interior Lighting Controls	
Exterior Lighting	
General Plug Loads & Schedule	
Process Loads & Schedule	
Elevators & Schedule	
Domestic Hot Water & Schedule	
<b>Operating Conditions</b>	
Room Set-points	Temperature, Humidity
Air Handling Units	Per AHU and MAU– list all that applies: Area it serves Min OA Flow and % of total Total Supply Air Flow Heating Coil Capacity Cooling Coil Capacity Reheat Coil Capacity Fan Power Supply Fan Power Return Fan Power Exhaust Supply Air Temperature Humidification Controls / Variable / Constant Volume / DCV
Heat Recovery Ventilators	Per HRV or ERV -list all that applies:

Inputs	Energy Model Assumptions Reporting
	Min OA flow Sensible efficiency % Latent efficiency %
Zone Terminal Systems	List all that applies for heating and cooling
Zone Exhausts	Per System: Air Flow Fan Power
<b>Central Plant</b>	
Heating Equipment Type	Type, Capacity, Efficiency, Temperature
Hot Water Loop	Per Hot Water Loop – list all that applies: Supply Water Temperature Return Water Temperature Description of Reset / Controls Heat Rejection/Heat Recovery
Cooling Equipment Type	Type, Capacity, Efficiency, Temperature
Chilled Water Loop	Per Chilled Water Loop – list all that applies: Supply Water Temperature Return Water Temperature Heat Rejection/ Heat Recovery
Heat Rejection	Type, Capacity, Efficiency, Temperature
Condenser Water Loop	Per Condenser Water Loop –list all that applies: Supply Water Temperature Return Water Temperature Heat Rejection/ Heat Recovery
Steam System	Type, Capacity, Efficiency, Temperature

<b>Inputs</b>	<b>Energy Model Assumptions Reporting</b>
Domestic Hot Water Preheat	Type, Capacity, Temperature
Domestic Hot Water	Type, Capacity, Efficiency, Temperature, Storage Capacity
Pumps	For all pumps:  Flow, Power

## **APPENDIX 8B - EMBODIED CARBON MODELLING METHODOLOGIES**

This Appendix outlines the requirements for Embodied Carbon modelling and associated methodologies.

### **1. GENERAL**

- (a) The Design-Builder will apply the methodologies outlined in this Appendix for all documentation submitted concerning the Embodied Carbon Model, the Embodied Carbon Design Reports, the Embodied Carbon Construction Reports and the Embodied Carbon Target.

### **2. METHODOLOGY**

- (a) The Embodied Carbon Model will be developed using the following software:
  - (i) BIM 3D modelling: Autodesk® Revit
  - (ii) Lifecycle assessment software: Tally® Environmental Impact Tool plug-in for Revit.
- (b) The scope of analysis will:
  - (i) be a full building study and will use the default Tally® template;
  - (ii) include all categories available within Tally®; and
  - (iii) include all linked Revit files with elements that form part of the Building.
- (c) Revit Modelling Guidelines
  - (i) The components modeled in Revit will:
    - (1) include the complete Building envelope and structural elements above and below grade;
    - (2) include all components of wall assemblies with interior finishes;
    - (3) include all components of floor assemblies excluding floor finishes;
    - (4) include all components roof assemblies excluding interior ceilings;
    - (5) include doors and glazing with associated frames, frame attachments, fittings and hardware;
    - (6) exclude structural connections;
    - (7) exclude interior partition and ceiling assemblies;
    - (8) exclude all finishes that are not an essential part of the Building envelope or structural assembly.
    - (9) exclude all components of electrical and mechanical systems,
    - (10) exclude elevators, and conveying systems;

- (11) exclude fixtures, fittings and equipment;
  - (12) exclude excavation and other site development, landscaping and parking lots;  
and
  - (13) include parking structures.
  - (ii) Family naming will be descriptive or by type mark for easy identification within the LCI data section of the Tally® report. ex: Door – Exterior – Double – Swing – Fully Glazed.
- (d) Material Definition Guidelines
- (i) The expected building life will be set to 75 years.
  - (ii) During Design:
    - (1) material definitions will use the default service life provided in the Tally® database;
    - (2) only the material definitions currently within the Tally® database will be used. If a material definition for a desired product is not available in the Tally® database, then the default or generic option will be used; and
    - (3) transportation distances and methods for all products will be left as the default values in the Tally® database.
  - (iii) During Construction:
    - (1) material definitions will be updated to the service life recommended by the manufacturer of the products used;
    - (2) material definitions will be updated to reflect the products used. If information regarding the products is not in the Tally® database, the Design-Builder will contact the manufacturer and request the information be provided to Tally® for inclusion in the database. If the manufacturer does not have the information that Tally® requires, the Design-Builder will include the correspondence stating so within the embodied carbon report as outlined in this Appendix; and
    - (3) transportation distances and methods will be updated to reflect the products used.
  - (iv) Default values within a material definition may be revised provided supporting product documentation is submitted with the embodied carbon design report.
- (e) Tally® Report Export Guidelines
- (i) Biogenic carbon will be included.
  - (ii) All output summaries will be included.

### **3. EMBODIED CARBON REPORT CONTENTS**

- (a) The Embodied Carbon Design Report will include:
  - (i) an executive summary including:
    - (1) the Net Embodied Carbon for the Design expressed as kgCO<sub>2</sub>eq/m<sup>2</sup>; and
    - (2) a description of modelling methodology and any deviations from this Appendix and the anticipated impact on the Design's ability to meet the Embodied Carbon Target;
  - (ii) wall, roof, floor and door schedules; and
  - (iii) full, unaltered pdf and excel reports directly exported from Tally®.
- (b) The Embodied Carbon Construction Report will include:
  - (i) the requirements in Section 3(a) of this Appendix; and
  - (ii) material cut sheets, data sheets, or a letter from the manufacturer showing the actual values that have been used to update the Embodied Carbon Model.

## SCHEDULE 9 APPRENTICESHIP POLICY

### 1. APPRENTICESHIP POLICY

- 1.1 The Design-Builder acknowledges that it has obtained a copy of and has reviewed the Government of British Columbia policy set out in Apprentices on Public Projects Policy and Procedure Guidelines, Date: July, 2015, Update: March, 2016 available at <http://www2.gov.bc.ca/gov/content/industry/construction-industry/apprentices> (the "Apprenticeship Policy").
- 1.2 Unless defined in this Agreement, capitalized terms in this Schedule 9 have the meaning given in the Apprenticeship Policy.

### 2. APPLICATION

- 2.1 The Design-Builder agrees that the Apprenticeship Policy applies to this Agreement and the Design-Builder will, subject to the reasonable assistance of the Owner, comply with the requirements of the Apprenticeship Policy.
- 2.2 The Design-Builder agrees that the Owner requires the Design-Builder to apply the Apprenticeship Policy to Subcontractors and Subcontracts (of all tiers) valued at \$500,000 or more.

### 3. REQUIREMENTS

- 3.1 The Design-Builder acknowledges that the requirements of the Apprenticeship Policy and this Schedule 9 include:
- (a) using Registered Apprentice(s) in respect of Specified Trades valued at \$500,000 or more;
  - (b) reporting in Form A: Confirmation of Intent to Use Registered Apprentices as soon as practicable and at least five days prior to commencement of Work under this Agreement or work under the applicable Subcontract and completing all supplementary forms (Form A) as required;
  - (c) reporting in Form B: Apprentice Utilization Report quarterly and upon completion of Work under this Agreement or work under the applicable Subcontract; and
  - (d) complying with applicable requirements in relation to Personal Information.
- 3.2 The Design-Builder further acknowledges that under the Apprenticeship Policy the Owner may, or may permit the ministry identified as responsible for the Apprenticeship Policy (the "**Responsible Ministry**"), to exercise all provisions of the Apprenticeship Policy applicable to the Contracting Authority or the Province (whether through the Responsible Ministry or otherwise) provisions that permit the Contracting Authority:
- (a) to delay the start of Work on the Project until the Owner has confirmed, through the Responsible Ministry, that Registered Apprentices will be used on the Project; and
  - (b) to delay issue of final payment in relation to the applicable Work until the final Form B is submitted.

- 3.3 The Design-Builder represents that the Design-Builder will ensure that the provisions of this Schedule 9 are incorporated into applicable Subcontracts.
- 3.4 The Design-Builder and the Owner acknowledge that any change to the Apprenticeship Policy will, if required by the Owner to be implemented for purposes of this Agreement, be implemented as a Change under Part E - Changes.

**SCHEDULE 10  
SITE PLAN**



COLLECTIONS AND RESEARCH BUILDING  
**SCHEDULE 10 - SITE PLAN**

## SCHEDULE 11 CHANCE FIND PROCEDURE

### 1. ARCHAEOLOGICAL OVERVIEW ASSESSMENT REPORT

- 1.1 The Design-Builder acknowledges that the Owner has undertaken prior assessment and evaluation of archaeological resources on the Lands, and the findings are set forth in the report entitled "Archaeological Report CRB\_AOA\_2021-05-21" dated May 21, 2021, prepared by Terra Archaeology Ltd. (the "**Archaeological Overview Assessment Report**").
- 1.2 The Design-Builder acknowledges and agrees that the Archaeological Overview Assessment Report:
- (a) is a Site Report, and the provisions of Section 30.1 of this Agreement accordingly apply to such report;
  - (b) is the result of a "desk top" exercise undertaken by Terra Archaeology Ltd., a registered archaeology firm;
  - (c) provides that the Lands were assessed as having a low likelihood of archaeological materials due to the highly excavated nature of the site as well as no records of archaeological sites on or near the property; and
  - (d) recommends that, at minimum, a "Chance Find Procedure" archaeological approach is undertaken at the Lands.

### 2. CHANCE FIND PROCEDURE

- 2.1 The Design-Builder will develop and submit for review by the Owner, by no later than 45 days of the Effective Date and prior to any excavation or ground altering activities on the Site, a chance find procedure that complies with the requirements of this Schedule 11 (the "**Chance Find Procedure**"). The Design-Builder will ensure that all Persons involved in carrying out the Work comply with the requirements of the Chance Find Procedure at all times while on the Site.
- 2.2 The Design-Builder will retain, at its cost, an Archaeologist to assist with the development and implementation of the Chance Find Procedure (the "**Project Archaeologist**").
- 2.3 The Chance Find Procedure will:
- (a) be developed by the Design-Builder, the Project Archaeologist, and the RBCM ILOs;
  - (b) be consistent with the Design-Builder's obligations pursuant to Section 31.1 of this Agreement;
  - (c) require on-site training on archaeological finds for all Persons involved in carrying out the Work as contemplated by Section 3.1;
  - (d) provide guidelines consistent with those set out in Sections 3.1 and 3.2 that must be followed upon the discovery of known or suspected fossils (including fossils as defined in the *Lands Act* (British Columbia)), palaeontological finds, human remains (including ancestral remains), coins, articles of value or antiquity, including all heritage objects (as defined in the *Heritage Conservation Act* (British Columbia)) or any other archaeological finds at the Site;

- (e) promote the preservation and proper management of heritage resources that are unexpectedly encountered at the Site and to minimize disruption to the Work; and
- (f) respect and be consistent with local Indigenous protocols and expectations as conveyed through the RBCM ILOs and the Project Archaeologist.

2.4 The Design-Builder will not commence any Construction until:

- (a) the Design-Builder is entitled to proceed with the Chance Find Procedure in accordance with the Review Procedure; and
- (b) all Persons involved in carrying out the Work have completed training on the Chance Find Procedure.

2.5 The Owner may at any time audit the Chance Find Procedure and its implementation.

2.6 The Design-Builder will obtain a Heritage Inspection or Site Alteration Permit or approval to proceed from the Archaeology Branch if archaeological materials or features (intact or disturbed) are encountered at the Site.

### **3. CHANCE FIND PROCEDURE PARTICULARS**

3.1 The Chance Find Procedure will include, at minimum, the following elements:

- (a) in the event a potential archaeological find is unearthed, a protocol for initiating a stop work order for activities in the immediate vicinity of the find, material containment, safety measures, as appropriate, and immediate notifications to the Owner, the RBCM ILOs, the Design-Build Director and the Project Archaeologist;
- (b) without limiting (a), in the event that suspected or obvious human remains are identified at the Site, all Persons involved in the Work will be required to implement the following steps:
  - (i) Step 1: Immediately stop Construction in the vicinity of the remains and secure the location;
  - (ii) Step 2: Take immediate steps to make the Site safe and prevent impact to archaeological materials. Do not move or transport soil from the vicinity of the find, including adjacent spoil material or material loaded into a truck or hydrovac; and
  - (iii) Step 3: Contact the Owner and the RBCM ILOs for further guidance;
- (c) an acknowledgement that specific local Indigenous protocols will be initiated for the respectful recovery and care of ancestral remains, and that the RBCM ILOs will work directly with the Project Archaeologist to determine further action;
- (d) before commencing any Construction activities that involve excavation or earth movement activities, the Design-Builder will be required to have the Project Archaeologist hold an on-site training session under the direction of the RBCM ILOs to ensure all Persons involved in carrying out the work have an awareness and understanding of how to identify potential archaeological finds;

- (e) reference to the BC Archaeology Branch's Found Human Remains Policy (available at <https://www2.gov.bc.ca/gov/content/industry/natural-resource-use/archaeology/bulletins-policies>);
  - (f) reference to the BC Fossil Management Office's Framework (available at <https://www2.gov.bc.ca/gov/content/industry/natural-resource-use/fossil-management/framework-consultation>); and
  - (g) a commitment to make a basic archaeological site identification document available on-site (example documents have been provided as part of the Disclosed Data).
- 3.2 The Chance Find Procedure will be consistent with the following best practice guidelines, and the Design-Builder will act in accordance with such guidelines when implementing a Heritage Inspection or Site Alteration Permit from the Archaeology Branch if archaeological materials or features (intact or disturbed) are encountered at the Site:
- (a) Option 1: Avoidance through partial Project redesign or relocation. This results in minimal impact to the archaeological site and is the preferred option from a cultural resource management perspective.
  - (b) Option 2: Salvage archaeological excavation or screening.
  - (c) Option 3: Monitoring of Construction by the Project Archaeologist and supported by local Indigenous archaeological monitors. Monitoring is appropriate where impacts to the Work cannot be predicted or evaluated before Construction, especially near the margins of a known site, or in cases where deeply buried deposits are expected that cannot be accessed without the assistance of heavy machinery.
- 3.3 The Design-Builder acknowledges that the RBCM ILOs will provide contacts for trained monitors to the Project Archaeologist.
- 4. HUMAN REMAINS**
- 4.1 The Design-Builder acknowledges that human remains are considered forensic evidence until the BC Coroners Service determines that they are archaeological, and that the Archaeology Branch facilitates the disposition of archaeological human remains.
- 4.2 The Design-Builder acknowledges and respects the sacredness of ancestral remains to Indigenous peoples.
- 4.3 The Design Builder acknowledges that, in the unfortunate event that ancestral remains are disturbed, their subsequent reinterment may involve certain ceremonies or procedures that could delay the Work, in which event the provisions of Section 31.2 of this Agreement will apply. The Design-Builder acknowledges that the RBCM ILOs will provide directions on these matters at the relevant time and the Design-Builder will comply with any such directions.

## **SCHEDULE 12 INDIGENOUS REQUIREMENTS**

### **1. INDIGENOUS REQUIREMENTS**

1.1 The Design-Builder will:

- (a) contact each of Esquimalt Nation and Songhees Nation through the RBCM ILOs to identify unskilled, skilled and apprenticeship employment opportunities related to the Project;
- (b) use reasonable efforts to provide, or cause its Subcontractors to provide, a minimum of five full-time employment opportunities to Esquimalt Nation during the period from the Effective Date until the Substantial Completion Date; and
- (c) use reasonable efforts to provide, or cause its Subcontractors to provide, a minimum of five full-time employment opportunities to Songhees Nation during the period from the Effective Date until the Substantial Completion Date.

### **2. INDIGENOUS REQUIREMENTS REPORT**

2.1 On a quarterly basis from the Effective Date until the Substantial Completion Date, the Design-Builder will provide a report to the Owner which summarizes, at minimum:

- (a) the Design-Builder's efforts to date in engaging Esquimalt Nation and Songhees Nation to provide the opportunities described in Section 1;
- (b) all employment opportunities offered to date by the Design-Builder to Esquimalt Nation and Songhees Nation members in furtherance of achieving the requirements set forth in Section 1, with details for each employee as to:
  - (i) type of employment (unskilled, skilled, apprenticeship etc.);
  - (ii) role(s) and responsibilities;
  - (iii) dates of employment; and
  - (iv) hours of employment

(the "**Indigenous Requirements Report**").

2.2 If any Indigenous Requirements Report is assigned a "REJECTED" comment by the Owner, the Design-Builder, the Owner and the RBCM ILOs will meet to discuss in good faith an appropriate strategy for achieving the requirements set forth in Section 1, and the Design-Builder will use reasonable efforts to implement such strategy.

**SCHEDULE 13  
PRE-ORDERED MATERIALS AND DEPOSITS**

<b>Item #</b>	<b>Description of Pre-Ordered Materials / Materials Subject to Deposit</b>	<b>Anticipated Month Which Cash-Flow Would Occur<sup>1</sup></b>	<b>Anticipated Payment Amount<sup>2</sup></b>	<b>Payment as a Percentage of the Estimated Total Cost of Pre-Ordered Materials / Materials Subject to Deposit</b>
1	Mass Timber Supply on order	Month 1	\$	
2	Mass Timber Supply prior to fabrication - Phase 1	Month 9	\$	
3	Mass Timber Supply prior to fabrication phase 2	Month 10	\$	
4	Mass Timber Supply prior to fabrication - phase 3	Month 11	\$	
5	Collection Storage Assemblies on order (Cabinets, Shelving, Pallets and Racks)	Month 1	\$	
6	Furnishings on order	Month 6	\$	
7	Environmental Control Chambers on order	Month 3	\$	
8	Precast Concrete on order	Month 3	\$	
9	Doors and Frames on order	Month 6	\$	
10	Office Glazing on order	Month 7	\$	
11	Acoustic Slats on order	Month 7	\$	
12	Operable Walls on order	Month 8	\$	
13	Lab Equipment prior to fabrication	Month 8	\$	

Item #	Description of Pre-Ordered Materials / Materials Subject to Deposit	Anticipated Month Which Cash-Flow Would Occur <sup>1</sup>	Anticipated Payment Amount <sup>2</sup>	Payment as a Percentage of the Estimated Total Cost of Pre-Ordered Materials / Materials Subject to Deposit
14	Collection Storage Assemblies prior to fabrication (Cabinets, Shelving, Pallets and Racks)	Month 8	\$	
15	Collection Storage Assemblies on order (Mobile System - Rails & Carriages)	Month 1	\$	
16	Collection Storage Assemblies prior to fabrication (Mobile System - Rails & Carriages)	Month 8	\$	

<sup>1</sup> The Anticipated Month Which Cash-Flow Would Occur is provided as an estimate for information only, is not binding on the Design-Builder, and (subject to Section 42.2(d) of this Agreement) does not limit the ability of the Design-Builder to submit an application for payment on account of Pre-Ordered Materials or Materials Subject to a Deposit under Section 42 of this Agreement.

<sup>2</sup> The Anticipated Payment Amount is provided as an estimate for information only, is not binding on the Design-Builder, and (subject to Section 42.2(d) of this Agreement) does not limit the ability of the Design-Builder to submit an application for payment on account of Pre-Ordered Materials or Materials Subject to a Deposit under Section 42 of this Agreement.