



## ADDENDUM NO. 1

<b>Project:</b>	Whistler Village Lot A 2018 Waterproofing and Asphalt Replacement	<b>Project No.:</b>	VAN.102486.0013
<b>Issued By:</b>	Jonathan Woo, P.Eng.	<b>Date:</b>	2018-12-21
<b>Contact:</b>	604-738-0048	<b>Pages:</b>	25
<b>Email:</b>	jwoo@rjc.ca		

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This Addendum forms part of, and is to be included in, the Contract Drawings and Specifications originally issued for the above-named project and no consideration will be given to any request for extras to this Contract due to the Contractor not being familiar with the Addenda. Please acknowledge receipt of this Addendum on the Bid Form.

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This Addendum forms part of the Bid Documents and modifies as stated herein:

### 1.0 SPECIFICATIONS

- 1.1 Section 00 21 00 – Instructions to Bidders
  - 1.1.1 Delete Section 00 21 00 – Instructions to Bidders
  - 1.1.2 Add Section 00 21 00 – Instructions to Bidders R1
- 1.2 Section 00 41 00 – Bid Form
  - 1.2.1 Delete Section 00 41 00 – Bid Form
  - 1.2.2 Add Section 00 41 00 – Bid Form R1
- 1.3 Section 01 11 01 – Use of Site
  - 1.3.1 Delete Section 01 11 01 – Use of Site
  - 1.3.2 Add Section 01 11 01 – Use of Site R1
- 1.4 Section 32 12 16 – Asphalt Pavement
  - 1.4.1 Delete Section 32 12 16 – Asphalt Pavement
  - 1.4.2 Add Section 32 12 16 – Asphalt Pavement R1

### 2.0 DRAWINGS

- 2.1 No modifications at this time.

### 3.0 CLARIFICATION(S)

3.1 Question:

"I was hoping to propose an alternate waterproofing solution for the Lot A parking project in the form of a seamless, spray applied, liquid membrane.... [remainder of question removed]"

Response:

Approved waterproofing membranes to be used as part of this project are outlined in specification 'Section 07 52 16 – MBM Roofing and Waterproofing'.

3.2 Question:

[Paraphrased] "Will the concrete barriers adjacent to the conference centre be removed by the RMOW or is it expected to be completed by the Contractor?"

Response:

The concrete barriers north of the conference centre (partially shown in Photo #1 below) are to be removed and reinstated by the Contractor as part of the work. The RMOW will provide a location for them to be stored, if required.



**Photo #1 – Partial View of Concrete Barriers**

3.3 Question:

[Paraphrased] "Which drains will be included in the scope of work?"

Response:

Drains as indicated on Sheet R-2.1 in the 'Issued for Bid' drawings, as well as the drain at the base of the Lot A Public Plaza western ramp (shown in Photo #2 below), are to be removed and replaced as outlined in detail 7/R-3.2 of the bid drawings. The requirement for additional drains will be reviewed by the Consultant following removal of the existing plaza finishes.



**Photo #2 – Western Ramp Drain**

3.4

Question:

[Paraphrased] “Will the guardrail along the ‘Gone Eatery’ patio need to be replaced as part of the work?”

Response:

The existing guardrail along the ‘Gone Eatery’ patio is to be kept in place during waterproofing. Detailing for the guard tie-in to the replaced waterproofing membranes will be confirmed by the Consultant following removal of the existing stone finishes.

**End of Addendum No. 1**

## 1.0 GENERAL

### 1.1 INSTRUCTIONS

- .1 Before submitting a bid, Bidders shall:
  - .1 Examine and read the Bid Documents thoroughly.
  - .2 Examine the site and ascertain the extent and nature of all conditions, limitations, or building regulations affecting the performance of the Work. The site is open and available for review by the Bidders during normal business hours. Coordinate site access through the Consultant. All dimensions are to be confirmed by on-site measurement by the Bidder.
  - .3 Confirm all utility services in the vicinity of the Work that will require protection and maintenance during the course of the Work.
  - .4 Consider the effect of regulatory requirements applicable to the Work.
  - .5 Study and correlate Bidder's observations with the Bid Documents.
  - .6 Immediately notify Consultant of all perceived omissions and discovered conflicts, errors and discrepancies in the Bid Documents.
  - .7 Be satisfied that Bidder understands the Bid Documents and is competent to undertake and complete the Work.
- .2 Bid shall include cost of all permits required (excluding the building permit), royalties, freight, government duties and taxes where applicable. The Owner will obtain and pay for the building permit.
- .3 Partial Structural drawings of the original project are available for viewing at the office of the Consultant for reference only.
- .4 The Owner reserves the right to add or delete items to be performed under this Contract before and after the Contract is awarded without any penalty. Any revisions to the submitted Contract Price as a result of these deletions are to be solely based on the unit prices (or lump sum prices) quoted by the Bidder for those items. The bid submission shall include a CCA Document No. 11.
- .5 The Bidder shall not engage in collusion of any sort and, in particular, shall ensure that no person or other legal entity other than the Bidder has an interest in the Bidder's bid. The bidder shall prepare the bid without any knowledge of,

comparison of figures with, or arrangement with any other person or firm preparing a bid for the same work.

.6 It is the Bidder's responsibility to provide all labour, material, equipment and supervision to complete the repairs outlined in these Bid Documents taking into account all site conditions, schedule and noise restrictions, work area restrictions, protection requirements, accessibility restrictions, etc. No extras will be entertained for inconveniences after award of the Contract.

.1 Bidder shall read the Bid Documents in their entirety prior to bidding in order to be aware of all project requirements.

.7 If the Bidder is a joint venture, each party to the venture must execute the bid under seal in the manner appropriate to such party.

## 1.2 CONTRACT FORM

.1 The form of Contract between the accepted Bidder and Owner will be the Standard Construction Document CCDC2 - 2008 Stipulated Price Contract, as amended by Section 00 73 00 Supplementary Conditions.

## 1.3 SITE

.1 The Work is to be performed at the **Whistler Lot A Parkade Plaza** in Whistler, BC.

## 1.4 OWNER AND OWNER'S REPRESENTATIVE

.1 The Owner is: Resort Municipality of Whistler  
4325 Blackcomb Way  
Whistler, BC V0N 1B4

.2 The Owner's Representative is: **Andy Chalk**  
Telephone: 604-935-8330  
E-Mail: [achalk@whistler.ca](mailto:achalk@whistler.ca)

## 1.5 CONSULTANT

.1 The Consultant is: Read Jones Christoffersen Ltd.  
Suite 300 - 1285 West Broadway  
Vancouver, BC V6H 3X8

- .2 The Consultant's Representative is: **Jonathan Woo**  
Telephone: 604-739-6282  
E-Mail: jwoo@rjc.ca

Any questions during the Bid Period shall be directed to the office of the Consultant.

## 1.6 PRE-BID CLOSING SITE MEETING

- .1 A pre-bid closing site inspection and meeting will be held on site at **1100h on Monday December 17, 2018** for the benefit of all Bidders. Bidders should meet at the Whistler Conference Centre East Entrance.

## 1.7 EXAMINATION OF SITE

- .1 The onus shall be on the Bidder to investigate the Project Site and inform themselves before bidding of all physical and labour conditions and administrative practices prevailing at the project site.
- .2 The Bidder shall not claim at any time after the submission of their bid any misunderstanding of the terms and conditions of the Contract relating to the site conditions.
- .3 The Bidder shall make allowances as required for the installation of temporary exhaust, heating and ventilators into and out of the work area. No extra for this item will be entertained after bids have closed.

## 1.8 BID SUBMISSION

- .1 Completed Bid Forms together with the required bid security, consents of surety and all supplementary bid submission material shall be delivered to the office of the Consultant in a sealed envelope no later than **1400h on January 17, 2018** and addressed as follows:

**Confidential:** **Bid Submission**  
**Bid For:** **Resort Municipality of Whistler**  
**c/o Read Jones Christoffersen Ltd.**  
Suite 300 - 1285 West Broadway  
Vancouver, BC V6H 3X8

**Attention:** **Jonathan Woo, P. Eng.**

- .2 Bidder's name shall be typed on the reverse side of the envelope.

- .3 Bids will be opened in private at the office of the Consultant.
- .4 Using the Bid Form provided, the bid shall be filled out in ink or typed, signed in longhand by a duly authorized company official, and sealed with the Bidder's corporate seal.
- .5 The Bid Form shall not be altered and all spaces for information will be completed.
- .6 E-mail, telephone or facsimile bid proposals or bid modifications will not be considered.
- .7 **Include a preliminary schedule and phasing plan with the Bid Submission that indicates:**
  - a. **Proposed phasing for the completion of the work,**
  - b. **Proposed timing for each phase, and**
  - c. **Proposed routes to maintain access for businesses facing Whistler Lot A.****The Owner reserves the right to reject bids that do not contain a preliminary schedule.**
- .8 The Consultant may, after bid closing time and before Contract award, require any Bidder to submit, in a form prescribed by or acceptable to the Consultant, supplementary information about any aspect of the Bidder's bid that, in the Consultant's opinion, is necessary for bid evaluation purposes.

## **1.9 BONDING REQUIREMENTS**

- .1 A bid deposit in the form of a certified cheque or bid bond made payable to the Owner. Owner in the amount of 10% of the Contract Price, shall accompany all bids.
- .2 The Bidder shall provide the Owner with a performance bond equal to 50% of the Contract Price and a labour and material payment bond equal to 50 % of the Contract Price per Section 01 78 36 - Warranties and Bonds. A consent of surety to provide these bonds shall accompany the Bid.
- .3 All bonds shall name the Owner as obligee.

## **1.10 SUFFICIENCY OF BID**

- .1 The submission of a bid shall constitute an incontrovertible representation by the Bidder that:
  - .1 The Bidder has complied with all bid requirements.

- .2 The Bidder is qualified with a minimum of 5 years' experience projects of a similar scope to be able to perform the Work in accordance with the Bid Documents.
- .3 The bid is based upon performing the Work in accordance with the Bid Documents, without exception.
- .4 The price or prices stated in the bid cover all the Bidder's obligations under the Contract and all matters and things necessary for the performance of the Work in accordance with the Bid Documents.

### 1.11 BID IRREGULARITIES

- .1 At the discretion of the Owner, bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations or irregularities of any kind may be accepted or declared informal.
- .2 At the discretion of the Owner, bids that fail to include or to comply with bid security, bonding or insurance requirements may be accepted or declared informal.
- .3 Informal bids may or may not be considered at the sole discretion of the Owner.
- .4 The Owner may accept or waive a minor and inconsequential irregularity, or where practicable to do so, the Owner may, as a condition of bid acceptance, request a Bidder to correct a minor and inconsequential irregularity with no change in bid price.
- .5 The determination of what is, or is not, a minor and inconsequential irregularity, the determination of whether to accept, waive, or require correction of an irregularity, and the final determination of the validity of a bid, shall be at the Owner's sole discretion.
- .6 Discrepancies between words and figures will be resolved in favour of words.

### 1.12 BID WITHDRAWAL AND ACCEPTANCE

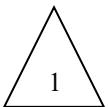
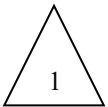
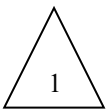
- .1 **Acceptance of the bid is subject to a review of Municipal budgets, approval from Municipal Council, and an internal review of the perceived value of the proposed Contract Price. The Owner reserves the right to reject any or all bids as the interests of the Owner may require, without stating reasons therefore, and the lowest or any bid will not necessarily be accepted.**



- .2 A Bidder who has already submitted a bid may submit a further bid at any time up to the official closing time. The last bid that is received shall supersede and invalidate all previously submitted bids by that Bidder for this Contract.
- .3 A bid may be withdrawn at any time before the bid closing time, provided the request is in the form of a letter received at the office of the Consultant before the bid closing time.
- .4 Withdrawn bids may be resubmitted in accordance with these bidding requirements providing the resubmitted bid is received at the office of the Consultant before the bid closing time.
- .5 A bid may not be withdrawn at or after bid closing time and shall be open to acceptance by the Owner until whichever of the following occurs first:
  - .1 Another Bidder has entered into a Contract with the Owner for performance of the Work.
  - .2 **Ninety (90) days after the bid closing time.**
- .6 **The ninety (90) day acceptance period shall commence at midnight at the date of bid closing and shall terminate at midnight of the ninetieth (90th) day thereafter. If the ninetieth (90th) day falls on a statutory holiday, such day(s) shall be omitted from the computation.**
- .7 **The ninety (90) day acceptance period may be extended at the Consultant's request and subject to the Bidder's written agreement to the extension.**
- .8 In the case of an error in addition, the correct sum of the amounts shown for each bid item shall be deemed to be the total bid price regardless of the total amount submitted by the Bidder.
- .9 Evaluation of Bid

In evaluating the bids, the Owner may consider any criteria, with such consideration to be exercised by the Owner in its sole discretion, including the following:

  - .1 The Contract Price as determined from the base bid or from the alternate bid.
  - .2 The Owner's authorized budget for the Work.
  - .3 The Contract Time.



- .4 The Bidder's ability to effectively manage and perform the Work and work with other subcontractors.
- .5 The Bidder's understanding of the Work.
- .6 The Bidder's Unit Prices, Allowances, and Separate Prices, if applicable.
- .7 The Bidder's ability to present cost saving opportunities that may be appropriate and acceptable to the Consultant and the Owner.
- .8 The Bidder's experience, competence and past performance in undertaking work similar to the Work, as well as that of its subcontractors.
- .9 The Bidder's financial strength and capability.
- .10 The experience, qualifications and abilities of the Bidder's supervisory personnel.
- .11 Aesthetic changes resulting from the Bidder's proposed approach to the Work.
- .12 Other criteria which the Owner, in its sole discretion, may consider appropriate to its evaluation.
- .10 Acceptance of Bid
  - .1 The lowest or any bid need not be accepted by the Owner. The Owner reserves the right to accept or reject any or all bids at their sole discretion on any basis at any time without further explanation or to accept any bids considered advantageous to the Owner.
  - .2 The Bidder acknowledges and agrees that the Owner will not be responsible for any costs, expenses, losses, damages or liabilities incurred by the Bidder as a result of or arising out of submitting a bid for the proposed Contract, or due to the Owner's acceptance or non-acceptance of their bid.
  - .3 The Owner may also elect not to proceed with the Project.

### **1.13 NOTIFICATION OF INTENT NOT TO SUBMIT A BID**

- .1 Prospective Bidders who have received Bid Documents but do not intend to submit a bid, are requested to notify the Consultant at least 24 hours prior to bid closing.

#### **1.14 ADDENDA**

- .1 Direct all questions in writing to the Consultant.
- .2 Answers to queries are only binding when confirmed by written Addenda.
- .3 Clarifications requested by Bidders must be submitted in writing to the Consultant no less than four (4) days before the date set for receipt of the bids. Any reply will be in the form of an Addendum, a copy of which will be forwarded to known Bidders no less than two (2) days before the date set for receipt of the bids.
- .4 Addenda may be issued by the Consultant during the bid period. Any Addenda will be delivered by the Consultant via e-mail or courier to all parties recorded by the Consultant as having received the Bid Documents.
- .5 All Addenda become part of the Bid and Contract Documents and the costs arising from any Addenda are to be included in the bid price.
- .6 Each Bidder shall ascertain before bid submission that all Addenda issued by the Consultant have been received and the Bidder shall indicate in the Bid Form the addendum number(s) of all Addendum received.

#### **1.15 CONSTRUCTION SCHEDULE**

- .1 Refer to schedule requirements outlined in the project documents.

#### **1.16 ALTERNATIVE MATERIALS OR EQUIPMENT**

- .1 A base bid submission is to include only approved and/or specified products and methods of construction.
- .2 Alternative materials or equipment will be considered provided requests for approval have been submitted to the Consultant per Section 01 25 13, Alternatives.
- .3 If a Bidder wants to submit substitutes to the material, equipment, or workmanship specified or indicated, they may include the substitutes as an unsolicited alternative, and this shall be stated as such in the Alternate Prices section of the Bid Form.

#### **1.17 ALTERNATE BIDS**

- .1 A Bidder may, at the Bidder's discretion, submit an alternate bid ("Alternate Bid") that varies in some manner from the Bid Documents.

- .2 Alternate Bids may only be submitted in addition to, and not in substitution of, a bid that complies with the requirements of the specifications and drawings (the “Base Bid”).
- .3 Products or systems identified in an Alternate Bid that vary from the products or systems described in the Bid Documents do not require pre-approval by the Consultant or Owner. An Alternate Bid should contain sufficient description and identification of any such varying products or systems to permit evaluation and review by the Consultant and the Owner.

### **1.18 QUALIFICATIONS**

- .1 Persons of Bidders submitting bids for this Project shall be actively engaged and experienced in the type of work required by these Bid Documents and the Bidder shall provide, on request, a statement of similar work performed by those persons.

**END OF SECTION**

DATE: \_\_\_\_\_

SUBMITTED BY: \_\_\_\_\_

OF: \_\_\_\_\_  
(address) (telephone)

To: Resort Municipality of Whistler  
c/o Read Jones Christoffersen Ltd.  
Suite 300, 1285 West Broadway  
Vancouver, BC V6H 3X8

Having examined the Project site, and having carefully examined the General Conditions of the General Contract - CCDC2 - 2008 as amended by Section 00 73 00, Supplementary Conditions, the Specifications and Drawings, including Addenda \_\_\_\_\_ to \_\_\_\_\_ issued as supplements thereto, and having examined and complied with Section 00 21 00, Instructions to Bidders, we hereby offer to perform the Work set forth in the aforesaid documents for the Estimated Contract Price, which includes any applicable taxes in force at this date.

Lump Sum Contract Price NET (Items 1.1-1.9) \$ \_\_\_\_\_

Unit Price Items NET (Items 2.1-2.5) \$ \_\_\_\_\_

Contingency Allowance \$ 50,000  
*(Determined by Consultant)*

Miscellaneous Mechanical Repair Contingency \$ 25,000  
*(Determined by Consultant)*

Electrical Systems Contingency \$ 10,000  
*(Determined by Consultant)*

**Subtotal** \$ \_\_\_\_\_

Goods and Services Tax (5%) \$ \_\_\_\_\_

**Total Estimated Contract Price** \$ \_\_\_\_\_

NOTES:

- .1 Lump Sum Prices are included in the Contract Price (NET).
- .2 Lump Sum Prices include the Contractor's Labour, material, equipment, material costs, overhead and profit, all taxes and duties, and shall represent the cost to the Owner of such

charges (does not include GST). In the event one or all Items 1.2 to 1.9 are deleted from the Contract, the price noted below represents the credit to the Contract.

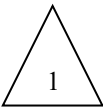
- .3 Unit price item estimated total prices are included in the Estimated Contract Price.
- .4 Unit quantities are estimated. Contract Price to be reconciled using actual quantities measured and agreed upon by the Contractor and the Consultant and unit rates for Unit Price items.
- .5 We have reviewed the schedule requirements outlined in the project specifications. We attach our proposed schedule. We understand that Contract time is of the essence.

**1.0 LUMP SUM PRICE ITEMS**

<b>ITEM NO.</b>	<b>SPEC. NO.</b>	<b>DESCRIPTION</b>	<b>LUMP SUM PRICE</b>
1.1	Div. 1	General Requirements	\$ _____
1.2	01 78 36	Bonds	
1.2.1		L & M Bond	\$ _____
1.2.2		Performance Bond	\$ _____
1.3	01 56 00	Site Protection, Fencing, and Hoarding (Public Parkade Area)	\$ _____
1.4	02 41 13	Demolition (Public Parkade Area)	\$ _____
1.5	Div. 3	New Concrete curbs, footings, stairs, etc. (Public Parkade Area)	\$ _____
1.6	Div. 7	Waterproofing Assembly (Public Parkade Area)	\$ _____
1.7	32 17 23	Asphalt Wearcourse (Public Parkade Area)	\$ _____
1.8	32 14 00	Concrete Paving Stones (Public Parkade Area)	\$ _____
1.9		Landscaping (Public Parkade Area)	\$ _____

**2.0 UNIT PRICE ITEMS**

<b>SPEC. ITEM NO.</b>	<b>DESCRIPTION</b>	<b>ESTIMATED QUANTITY</b>	<b>UNIT</b>	<b>CONTRACT ESTIMATED UNIT PRICE</b>	<b>ESTIMATED TOTAL PRICE</b>
2.1 Div.3	Topping Repair: 0 – 100	50	ft <sup>2</sup>	\$ _____	\$ _____
2.2 Div.3	Concrete Vertical Surface delamination repairs. Average depth 3-inch range: 0 – 50	20	ft <sup>2</sup>	\$ _____	\$ _____
2.3 Div.3	Concrete Top Surface delamination repairs. Average depth 3-inch range: 0 – 100	50	ft <sup>2</sup>	\$ _____	\$ _____
2.4 Div.3	Routing and Sealing of Cracks: 0 – 250	100	ft.	\$ _____	\$ _____
2.5	Existing Plaza Drain Replacement <b>1 - 10</b>	<b>4</b>	each	\$ _____	\$ _____



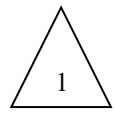
**3.0 SCHEDULE**

- .1 We agree to totally complete the Work within \_\_\_\_\_ weeks after start of work.
- .2 Available start date: \_\_\_\_\_, 2019.

**4.0 SUBMITTALS**

We enclose the following with our Bid:

- .1 Our Bid Security in the amount of ten percent (10%) of the Total Estimated Contract Price and Consent of Surety to provide Bonds in accordance with Section 01 78 36 – Warranty and Bonds.
- .2 A CCA Document No. 11
- .3 A complete list of Subcontractors we propose to use on this Contract, and the sections of the Work to be done by each of them.

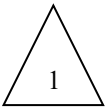


- .4 **A preliminary schedule and phasing plan as outlined in ‘Section 00 21 00 – Instruction to Bidders’.**
- .5 Resume of personnel we propose to use in the capacity of Superintendent and Project Manager.

## 5.0 SUBCONTRACTORS

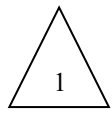
- .1 We reserve the right to substitute another Subcontractor in the event that a Subcontractor should withdraw his bid or become bankrupt. All Subcontractor substitutions are subject to the Owner's/Property Manager's approval.
- .2 Any such substitution, in order to be considered for approval, is contingent on the submission of conclusive evidence of withdrawal, bankruptcy or unsatisfactory performance.
- .3 We are responsible for all costs incurred as a result of substituting one Subcontractor for another.

## 6.0 ACCEPTANCE



- .1 This Bid is open to acceptance for a period of **ninety (90)** days from the date of bid closing and is promised in consideration of the attached Bid Security. Failure to enter into a contract after contract award shall result in forfeiture up to the amount of the Bid Security.
- .2 We agree to execute a contract on the Standard Construction Document CCDC2-2008, as amended by Section 00 73 00, the specifications and drawings, within seven days of written notification of contract award.
- .3 Submission of this Bid implies acceptance of the existing conditions at the site.
- .4 We understand that the lowest or any Bid will not necessarily be accepted, and that selected items may be deleted from the Project as represented in the Bid Form. The Owner may also elect not to proceed with the Project.





.5 The Owner reserves the right to waive minor defects or irregularities in the bid.

Bidder: \_\_\_\_\_

Signature: \_\_\_\_\_  
(Authorized Officer)

Signature: \_\_\_\_\_  
(Authorized Officer) (Seal)

**END OF SECTION**

## 1.0 GENERAL

### 1.1 CONTRACTORS USE OF SITE

- .1 The plaza and parking area are to remain open throughout the course of the Work. The Contractor shall have complete use and access to the designated work areas, unless otherwise stipulated by the Owner during the course of the Work. The Contractor will have parking and storage areas allotted as part of the site access, as outlined by the Owner.
- .2 **The Contractor shall co-ordinate their work schedule with the Owner so as to minimize disruptions of the site and businesses. No work shall be performed until approved by Owner.**
- .3 **It is the Contractor's responsibility to ensure the buildings facing the Lot A parking area remain operational at all times and to perform work as required to ensure that access to exits and entrances are available to the building users at all times.**
- .4 The Contractor is to provide the Owner with a schedule that lists all areas of work to be completed, including parking spaces to be occupied or restricted at least five (5) working days prior to closing those areas. **The work is to be phased so that no more than 33% of the parking stalls are closed at one time.**
- .5 It is the Contractor's responsibility to control traffic and to redirect if necessary to allow access to adjacent building or parking areas outside of the work area. Any required traffic rerouting and the work sequence shall be closely co-ordinated with the Owner.
- .6 Provide signage of professional quality, barriers and hoarding necessary to protect the public from construction and Contractor operations, to secure the work area, and to route traffic through or around the work areas as designated. Signage indicating that repairs are being performed and we are sorry for the inconvenience must be provided at each entrance. Refer to specification Section 01 56 00 - Protection of Work and Property for a list and the locations of non-standard construction signage that must be supplied by the Contractor. These signage requirements are in addition to any standard signs required to control and/or reroute traffic or maintain public safety.
- .7 Hoarding and dust protection is to be provided around each area of work in accordance with specification Section 01 56 00 - Protection of Work and Property. Each phase of the work is to be sealed to prevent the release of construction dust into other areas.



- .8 Contractor shall implement temporary measures to maintain interior air quality, temperature, and ventilation of adjacent buildings during completion of the Work.
- .9 The use of all power plant and percussive equipment is to be in accordance with all local by-laws and ordinances.
- .10 Do not unreasonably encumber site with materials or equipment.
- .11 Do not overload slab areas with equipment or stored materials. Review all equipment weights and loading procedures with Consultant prior to commencing work.
- .12 Do not close or obstruct or store materials in roadways, sidewalks or passageways outside of a closed area without prior approval from the Owner. Do not interfere with safe passage to and from the adjacent buildings, public sidewalks and roads.
- .13 Do not close or obstruct parkade vents or emergency exits.
- .14 Move stored products or equipment, which interferes with operations of the building, Owner, or Tenants.
- .15 General Contractor to obtain and pay for all necessary approvals to locate equipment or materials on municipal property and building permit.
- .16 Protect all existing light standards, walls, plants, finishes, windows, doors, etc.
- .17 Protect all utilities, gas mains, electrical conduit, etc. that must remain in service throughout the construction period.
- .18 During transportation of materials or equipment through occupied areas, ensure the public, property, and finishes are protected from damage. All damage caused by the Contractor is to be repaired or rectified at the Contractor's expense.
- .19 The Contractor shall include in their price all costs of temporary removal and replacement and/or relocation of existing electrical wiring and mechanical hardware required for completion of the work.
- .20 Propane powered equipment is not permitted within interior areas, including the Lot A parkade.
- .21 Temporary heat and ventilation used during construction, including the cost of installation, fuel, operation, maintenance and removal of equipment, shall be paid

for by the Contractor. The use of direct-fire heaters discharging waste products into work areas will not be permitted.

- .22 The Contractor is required to use Whistler Way for delivery and removal of material for duration of the project. Disposal bins, supply trucks, etc. are to be located at a location approved by the Owner. Contractor to be responsible for all required permits.
- .23 Maintain free access routes for ambulance, fire emergency vehicles, garbage trucks, etc.

## **1.2 HOURS OF WORK**

- .1 Use of all equipment to be restricted in accordance with local and municipal noise by-laws and regulations.
- .2 All noise generating Work shall be limited to the hours of 0800h to 2000h Monday to Friday. Weekend work will be considered at the request of the Contractor and at the discretion of the Owner, limited from 0900h to 1700h on SATURDAY. Work is not permitted on SUNDAY or statutory holidays.

## **1.3 EFFECT ON BUILDING AND SITE**

- .1 The Contractor shall schedule their operations to minimize the interruption of the normal use of the site and building and to comply with laws, by-laws, ordinances, rules and regulations relating to the Work.
- .2 The Contractor shall be responsible for arranging for the location of all existing utilities prior to construction and protection of the same during construction.

## **2.0 PRODUCTS**

Not applicable

## **3.0 EXECUTION**

Not applicable

**END OF SECTION**

## 1.0 GENERAL

### 1.1 WORK INCLUDED

- .1 Provide asphalt concrete pavement at locations outlined on the drawings.

### 1.2 REFERENCES

- .1 ASTM C117-04 Test Method for Materials Finer than 75  $\mu\text{m}$  (No. 200) Sieve In Mineral Aggregate By Washing.
- .2 ASTM C136-06 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
- .3 CAN/CGSB-8.1-88 Sieves, Testing, Woven Wire, Inch Series.
- .4 CAN/CGSB-8.2-M88 Sieves, Testing, Woven Wire, Metric Series.

### 1.3 SUBMITTALS

- .1 Submit mix design for pavement to the Consultant for approval, not less than three weeks prior to commencing paving.
- .2 Submit product information on seal coats and crack fillers.
- .3 Submit proposed equipment weights for review and approval by Consultant.

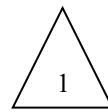
### 1.4 QUALITY ASSURANCE

- .1 Conform to requirements of the Resort Municipality of Whistler.

## 2.0 PRODUCTS

### 2.1 MATERIALS

- .1 Asphalt cement:
  - .1 Modified asphalt cement to be produced with asphalt cement compatible with latex or polymer modifier used.
  - .2 **The asphalt cement may not be sourced from a manufacturing plant outside the Resort Municipality of Whistler.**
- .2 Aggregate:



- .1 Crushed stone or gravel consisting of hard, durable, angular particles, free from clay lumps, cementitious material, organic material, frozen material and other deleterious materials.
- .2 Aggregate gradation to be within limits specified when tested to ASTM C136 and ASTM C117 or RMOW requirements, whichever is more stringent. Sieve sizes to CAN/CGSB-8.1 or 8.2.

Sieve Size (mm)	Percent Passing
20.0	
12.5	100
10.0	80 - 95
5.0	60 - 80
2.5	50 - 67
1.25	39 - 55
0.63	27 - 42
0.315	17 - 29
0.160	9 - 14
0.080	4 - 8

- .3 Latex modified mixes to be produced with manufactured fines. Fine aggregate (that fraction of the total aggregate passing the 5-mm sieve) to contain a minimum of 70 percent manufactured fines.
- .4 Mix Design:
  - .1 Design of mix by Marshal method to requirements below and as directed by Consultant. Compaction blows on each face of test specimens: 50
  - .2 Mix design to conform to locally available materials, reference MMCD Master Specification.
- .5 Submit asphalt mix design to the Consultant for approval, not less than three weeks prior to commencing paving.

## 2.2 TACK COAT

- .1 Tack-coat for asphalt to be all asphalt emulsion SS-1 to suit the intended use.

## **2.3 EQUIPMENT**

- .1 Contractor to notify the Owner and Consultant of all heavy equipment to be used as part of the work. Specifications of vehicles or equipment are to be provided to the Consultant who will complete a load review for the parking structures. The Contractor is not to use the equipment on suspended structures without written approval provided by the Consultant.**
- .2 Pavers: Mechanical, grade controlled, self-powered pavers capable of spreading mix within specified tolerances, true to line, grade and crown indicated.
- .3 Roller, General: Sufficient number of roller of type and weight to obtain specified density of compacted mix.
- .4 Vibratory Rollers:
  - .1 Minimum drum diameter 1200 mm (48").
  - .2 Maximum amplitude of vibration (machine setting) 0.5 mm (0.019") for lifts less than 40 mm (1-1/2") thick.
- .5 Haul Vehicles: Of adequate size, speed and condition to ensure orderly and continuous operation and as follows:
  - .1 Boxes with tight metal bottoms.
  - .2 Covers of sufficient size and weight to completely cover and protect asphalt mix when vehicle fully loaded.
  - .3 In cool weather or long hauls, insulate entire contact area of each vehicle box.

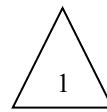
## **2.4 ACCESSORIES**

- .1 Adjustment Rims: as required to adjust elevation of manhole rims.

## **3.0 EXECUTION**

### **3.1 SURFACE PREPARATION**

- .1 All surfaces to be clean and dry.



- .2 Following cleaning operations, fill medium and large cracks using a slurry mixture of sand and emulsion to a depth of 6 mm (1/4 inch) below the existing asphalt pavement surface.
- .3 Following crack filling, apply tack-coat at the rate of 0.6 to 0.9 litres per sq. m (0.1 to 0.15 gallons per square yard) to vertical and horizontal surfaces of substrate.

**3.2 ASPHALT PLACEMENT**

- .1 Do not carry out paving work when the air temperature is lower than 4 °C (39 °F)
- .2 Deliver hot mix to the paver continuously at a constant temperature. Maintain temperature within the specified range.

	<b>Regular Mix</b>	<b>Latex Modified</b>
Temperature, °C (°F)	125 – 150 (257 – 302)	140 – 160 (284 – 320)

- .3 Lay mixtures within the specified ranges.
- .4 Place asphalt concrete wherever possible by a self-propelled machine using a full 3,650 mm (12' 0") width. Where this is impractical or in confined areas, use small pavers or spread by hand.
- .5 Unless otherwise shown, lay asphalt concrete over prepared substrate to provide 50 mm (2") minimum thickness after compaction.
- .6 Adjust manhole and catch basin rims and valve boxes to accommodate increased pavement depth. Do not pave over manholes and water valves.
- .7 During paving operations, maintain positive surface drainage to catch basins and catch basin manholes.
- .8 Reasonable efforts shall be made to prevent surface runoff from draining into sanitary sewer manholes.
- .9 Clean out catch basins and manholes and ensure free operation of valves after completion of paving operation.

**3.3 COMPACTING**

- .1 Compact asphalt paving in accordance with the Resort Municipality of Whistler specifications, using proper equipment to achieve the specified density.
- .2 Compact to a minimum of 96% of standard fifty blow Marshall Compactor Test.



- .1 Where coring for density measurement is not permitted, density may be measured using a nuclear density gauge. Compact to a minimum of 96% of the 90th percentile density based on a minimum of 20 test locations.
- .3 Compact at curbs and inaccessible locations by hand tamping, or other approved means. Avoid damage to curbs, edgings and other adjacent work.
- .4 Finished surfaces to be to finished grades indicated, to slope to drains, catch basins. Finished surfaces to be uniform, smooth, even, dense, free from shallow areas, protrusions and surplus asphalt. Correct any irregularities that vary more than 6 mm in 3,050 mm (1/4" in 10'-0").
- .5 Apply sealer to finished asphalt surface in accordance to manufacturers recommendations.
- .6 Do not allow traffic onto surface until seal coat adequately cured.

### **3.4 INSPECTION AND TESTING**

- .1 Testing to be conducted by a testing agency designated by the Consultant. Unless otherwise noted, the Owner will pay costs of inspection and testing described in this Section.
- .2 Inform Consultant and testing agency 24 hours in advance of work to be performed under this Section.
- .3 Prior to paving samples of plant produced mix will be obtained at the discretion of the Consultant by the testing agency. Samples will be tested in the laboratory for:
  - .1 Stability @ 60 C
  - .2 Density (will be used to correlate nuclear gauge/core extraction where required)
  - .3 Percent (%) Air Voids
  - .4 Percent (%) Asphalt Cement
- .4 During paving operations, material temperatures and compaction tests to be performed in accordance with Paragraph 3.2.2 and 3.3.2.
- .5 Tests may be performed, including coring at the discretion of the Consultant to confirm in-situ material thickness. Contractor to repair test locations at no extra cost.

**END OF SECTION**