REQUEST FOR PROPOSAL (RFP)

DESIGN BUILD SERVICES

BIKE SKILLS PARK
AT DEN DUYF PARK

RFP #2021-05

Submission Deadline:
16:00 PST Monday, June 28, 2021
Hardcopy or Electronic Submission

Contact Person:
Tom Csima
Manager, Operations and Projects

7400 Prospect St, Pemberton BC
tcsima@pemberton.ca

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Summary of Key Information

The Village is seeking Proposals from design-build teams to undertake the detailed design and construction, ~~and construction inspection~~ for a Bike Skills Park located at the recently developed Den Duyf Park on Pemberton Farm Road East.

Three (3) copies of the Proposal are to be submitted, one of which will be unbound. All shipping materials are to clearly identify the Proponent and the contents. One (1) digital copy should also be submitted to tcsima@pemberton.ca.

Proposals will be received by the Village of Pemberton no later than 4pm (PST) on **Monday, June 28, 2021** to the attention of:

Tom Csima, Manager of Operations and Projects
7400 Prospect Street, Pemberton, BC, V0N 2L0

Sealed Proposals are to be marked as follows:

Design Build Proposal
Bike Skills Park at Den Duyf Park
RFP #2021-05

Confidential - Do Not Open

Electronic copies of the Request for Proposal documents may be obtained from the Village of Pemberton website and BC Bid Website at no charge.

All inquiries shall be directed to:

Tom Csima, Manager of Operations and Projects
Phone: 604-894-6135 Ex. 240
Email: tcsima@pemberton.ca

There will be an optional site meeting on June 18, 2021 at 10am at Soccer Field #1 at 7366 Pemberton Farm Rd East. The Village has an estimated construction budget of $555,100 excluding GST for this project, and requires that the facility be substantially completed by no later than June 1, 2022.

Submissions will be evaluated based on the Proposal that, in the Village's opinion, offers the best value for the Products and/or Services requested. Considerations will include the proposed scope of work (i.e. final deliverables), quality of design, team qualifications and track record, relevant recent experience, overall project cost, schedule, demonstrated ability to complete the project within the proposed schedule, as well as any other any factors the Village deems relevant to the project success. The Village of Pemberton reserves the right to reject any or all bids; the lowest price will not necessarily be accepted. The Village reserves the right to waive informalities in or reject any or all Proposals or accept the Proposal deemed most favorable to the interest of the Village of Pemberton.

PART A - GENERAL

1 DEFINITIONS

1.1 "Agreement" "Contract" "Services Agreement" means a contract that may be issued to formalize with the successful Proponent through a negotiation process with the Village based on the proposal submitted and will incorporate by reference the Request for Proposal, any addenda issued, the Proponent's response and acceptance by the Village.

1.2 "Village" "Owner" means Village of Pemberton.

1.3 "Consultant" "Contractor" "Project Manager" means the person(s), firm(s) or corporation(s) appointed by the Village to carry out all duties, obligations, work and services first contemplated in the Request for Proposal and all associated documentation, which may also include mutually agreed revisions subsequent to submission of a Proposal. Both "Consultant" "Contractor" "Project Manager" and "Proponent" are complimentary in terms of duties, obligations, and responsibilities contemplated at the Request for Proposal stage, through evaluation process, execution, and performance of the Design and Construction Services.

1.4 "Mandatory" "Must" "Shall" "Will" mean a requirement that must be met.

1.5 "Product" means, unless the context requires otherwise, any and all articles, goods, materials, supplies, commodities, machinery, equipment and fixtures to be supplied by the Contractor that comprise a portion of the Services, but specifically excluding facilities, equipment and materials used or constructed to carry out the Services that are not incorporated permanently into the Services.

1.6 "Proponent" means responder to this Request for Proposal.

1.7 "Proposal" means the submission by the Proponent.

1.8 "Provide" "Supply" shall mean provide and pay for, and supply and pay for.

1.9 "Request for Proposal" "RFP" shall mean and include the complete set of documents, specifications, drawings, and addenda incorporated herein, and included in this Request for Proposal.

1.10 "Services" means and includes the provision by the successful Proponent of all services, duties and expectations as further described in this RFP.

2 BACKGROUND AND INTENT OF THE RFP

2.1 Pemberton is a destination location for mountain biking. The Village has a strong relationship with mountain biking and a community that embraces the world class trails on offer. To compliment these trails and to allow for a wide range of mountain biking options in the local area, a need was identified for a Bike Skills Park. As such, the Village will construct a Bike Skills Park adjacent to existing and future recreation facilities within Den Duyf Park.

The Bike Skills Area is located at 7366 Pemberton Farm Rd East and is part of a larger recreational facility that is currently undergoing phased construction. The southern end of

the property has been identified as a suitable location for the Bike Skills Park and is currently being prepared for construction to commence.

As part of the preparation for the Bike Skills Park, geotechnical, environmental, hydrological, and civil works have been undertaken. Geotechnical investigation determined that due to a layer of peat moss and organic subgrade on the site, significant settlement can be expected, especially due to the uneven loading anticipated with the various bike park features. To mitigate this risk, the entire site has been pre-loaded with a mixed dirt material that is considered suitable to build bike park features (screening required) following a significant settlement period (approximately three months). Further, with consideration for a proposed paved pump track and staging area, to prevent damage resulting from settlement, triaxial geogrid has been placed in a portion of the area (refer to Appendix A), as well as layers of structural fill material, followed by more pre-load material. Please refer to the Geotechnical memo for more information on the treatment that is currently underway at the site.

~~Currently the site includes approximately 50m of 300mm PVC drainage pipe with a further 38.5m of 300mm HDPE pipe installed before construction begins on the Bike Skills Park.~~

North of the Bike Skills park location is one existing soccer field and a second field currently under construction. These fields drain through a 300mm PVC drainage pipe which outlets just above the Bike Skills area. A temporary drainage swale has been installed along the northern and eastern borders of the Bike Skills Park, to allow the fields to continue to drain while the Bike Skills Park undergoes its pre-load treatment. Included in the scope of this project is to design and build a permanent piped drainage course, either along the current temporary drainage swale, or through the Bike Skills park itself, taking all of the storm-water from the fields and Bike Skills Park to the south east corner of the Bike Skills Park area.

Prior to construction of the Bike Skills Area, a water main will also be installed that supplies water from the western entrance of the property to the Bike Skills Area including a 25mm service connection within the Bike Skills Park boundaries.

3 GENERAL CONDITIONS OF THE RFP

3.1 NO CONTRACTUAL OBLIGATIONS AS A RESULT OF RFP OR PROPOSAL

This is a Request for Proposal, and not a call for tenders or request for binding offers. The Village does not intend to enter contractual relations as part of this RFP process and no contractual obligations whatsoever will arise between the Village and any Proponent who submits a Proposal in response to this RFP until and unless the Village and a Proponent enter into a formal, written contract for the Proponent to undertake this project.

3.2 OWNERSHIP OF PROPOSALS AND FREEDOM OF INFORMATION

All documents submitted to the Village in response to this RFP or as part of any subsequent negotiation will become the property of the Village and will not be returned. Proponents should also be aware that the Village is subject to the provisions of the Freedom of Information and Protection of Privacy Act (FOIPPA) (“Act”). A Proponent may stipulate in their Proposal that a portion(s) of their Proposal that contains confidential information and are supplied to the Village in confidence. However, under FOIPPA, the Village may nevertheless be obligated to disclose all or part of a response pursuant to a request made under the Act, even if the Proponent has stipulated that part of their Proposal is supplied in

confidence. The Proponent should review Section 21 and other provisions of FOIPPA to gain a better understanding of the Village's disclosure responsibilities under the Act.

3.3 CONFIDENTIALITY OF VILLAGE INFORMATION

This RFP and all information provided by the Village to a Proponent is provided on a confidential basis, and Proponents will not disclose any such information to any person (other than the Proponent's legal advisers) without the Village's prior written consent, nor may any Proponent publicize or advertise its involvement with this RFP process or the Village in connection wherewith without the prior written consent of the Village.

3.4 PROPONENT'S EXPENSES

For clarity, Proponents will be solely responsible for their own expenses incurred in preparing a Proposal or in any subsequent negotiations with the Village.

3.5 SUB-CONTRACTORS

Using a sub-contractor (who must be clearly identified in the Proposal) is acceptable. This includes a joint submission by two Proponents having no formal links. However, in this case, one of these Proponents must be prepared to take overall responsibility for successful interconnection of the operations and this must be defined in the Proposal. Any subcontractors must be engaged under written contract with the Contractor with provisions allowing the Contractor to comply with all requirements of this Agreement. The Contractor shall be solely responsible for reimbursing any subcontractors, and the Village shall have no obligation to them.

3.6 CONTACTING VILLAGE REPRESENTATIVES

Proponents shall not contact Village elected officials, officers or employees directly or indirectly regarding this RFP, except as indicated in this RFP.

3.7 CONFLICT OF INTEREST

Proponents shall disclose any potential conflicts of interest and existing business relationships they may have with the Village, its elected or appointed officials or employees. The Village may rely on such disclosure. The Village may reject a Proposal from any Proponent that the Village judges would be in a conflict of interest if the Proponent is awarded a Contract. Failure to disclose, or false or insufficient disclosure of the nature and extent of any relationship the Proponent may have with any employee, officer or director of the Owner shall be grounds for immediate termination of any agreement or contract with the Owner, in the Owner's sole discretion, without further liability of notice.

3.8 INSURANCE

The Contractor will be required to hold and maintain comprehensive general liability insurance in the amount of no less than $5,000,000.00 insuring the contractors' liability resulting from errors and omissions in the performance of services under the Contract. The Village of Pemberton is to be named as an additional insured on this policy. Proof of insurance must be provided to the satisfaction of the Village prior to the start of the Work.

3.9 PERMITS AND LICENSES

The successful Proponent will be required to obtain a Village of Pemberton business license prior to commencement of work.

3.10 OPTIONAL SITE MEETING

The Village recommends that parties interested in submitting a proposal in response to this RFP attend an optional site meeting to familiarize themselves with the park; the project; concept designs developed to date; existing site conditions; and Village requirements. The Village will also be available to answer questions and clarify expectations in regards to proposal content.

Date: June 18, 2021
Time: 10am
Location: Soccer Field #1 at 7366 Pemberton Farm Rd East

Please contact Tom Csima, at tcsima@pemberton.ca no later than 4pm on June 17, 2021 to advise of your interest in attending this optional site meeting.

4 STATEMENT OF REQUIREMENTS

4.1 OVERVIEW

The Statement of Requirements contains the overall general functional and performance requirements of the facility. Additional information is available for reference in the RFP attachments, including a conceptual site plan and Geotechnical reports. Proponents will be required to meet all standards within the MMCD where applicable.

4.2 OBJECTIVES

The primary objective of the Project is to design and construct a Bike Skills Park to accommodate recreation at Den Duyf Park located at the south east corner of the Pemberton Farm Road East and Sunstone Way intersection (address 7366 Pemberton Farm Road). Consideration must be given to the overall Den Duyf Park site plan, including access, spectator areas, staging area, and how they can be integrated.

The Village has an estimated construction budget of $555,100 excluding GST for this project. This funding is drawn from the Provincial Community Economic Recovery Infrastructure Program (“CERIP”) Grant. The CERIP Grant requires that all expenses related to the Bike Skills Park must be paid by October 31, 2022.

4.3 SCOPE OF WORK

The scope of work is as follows:

.1 JUMP TRAIL AND SKILLS AREA

The Contractor shall design and build a minimum of four jump trails, including beginner, intermediate, advanced and expert rated lines. Jump trails are to be comprised of a smooth, wide trail tread populated with rollers, jumps of varying sizes and bermed corners, and are to be gravity-fed resulting in minimal pedaling or braking by the rider. A skills track should

also be constructed to accommodate beginner and intermediate riders. This track should include a variety of features (including but not limited to: rock up-and-overs, drops, table top progressions, baby gaps, bridges of various heights/widths, embedded logs). A compacted gravel return trail is to be provided for all riders to have a direct line from the end of the jump trail back to the start mound. The contractor is expected to follow current best practices in jump trail design and construction, including implementing risk management mitigation strategies. The jump trails and skills area shall be primarily located in the Zone B area indicated in Appendix A, but may also extend in Zone A as required, noting that Zone A is the only portion suitable for paving.

The Contractor shall attend a pre-construction meeting with the Village within one month of contract award. At this meeting the Contractor shall provide a preliminary site layout design indicating their overall trail construction plan.

The Contractor is expected to build the jump trails to meet the following measurements/specifications:

Table 1: Jump trail standards

Trail Difficulty Level	Type of Jump and Features	Approximate Take-off Height	Approximate Landing Heights	Approximate Distance from Lip to Landing	Trail Tread Width	Approximate Length of Trail
Beginner	Tabletops (roll-able), berms, rollers	0.6m-1.0m (tabletops)		1.2m–2.0m	1.2m	30m–45m
Intermediate	Tabletops, berms, rollers	0.9m-1.5m (tabletops)		1.8m-3.0m	1.2m	80m–100m
Advanced	Gap jumps, including step ups, berms, rollers	1.2m-1.8m	1.5m-2.1m	2.7m-4.0m	1.8m	90m–110m
Expert	Gap jumps, including step ups, step downs/ drops, berms, rollers	1.5m-2.4m	1.8m-2.7m	3.6m-5.5m	3.0m	100m–115m

Progression: jump trails and skills area features are to be built in a manner so that they become progressively larger and more challenging over the course of the line and as difficultly levels increase. For example, the final jump on the beginner trail should be similar in difficulty to the first jump on the intermediate trail.

Trail alignments: alignments and locations must be flagged in the field using pin flags or other agreed upon method and approved by the Village or representative prior to construction. Preference is for beginner lines to be near the entrance of the Bike Skills Area with expert lines along the south.

.2 PUMPTRACK AREA

The area allocated for paving (Zone A -Appendix A) is approximately 2715m^2. The asphalt pump track shall be entirely contained within this area.~~, with approximately 350m of linear track, or 500-700m2 of asphalt surfacing.~~ It shall comprise of medium sized rollable features (i.e. approximately up to 1.5m in height), shall be capped with a compacted asphalt riding surface, and designed to accommodate intermediate level riders. Lawn basins and leads are also to be installed in low spots in the pump track area for drainage purposes, connecting to the storm-water drainage infrastructure on site.

.3 MATERIALS, EARTHWORKS AND DRAINAGE

Fill Material: The Bike Skill Area is currently being preloaded to allow for settlement prior to the Contractor commencing the work. The Village will advise the Contractor if the proposed construction start date is prior to the preloading being completed. The Contractor shall assume that all fill material is substantially onsite prior to the start of trail construction. However, it is expected that this material may be slightly contaminated with objects such as woody-debris and large rocks. The Contractor is expected to filter out and dispose of these objects in order to ensure smooth, graded and compacted base can be achieved that will support the intended use. Non-riding surfaces of berms, rollers, jumps, mounds and other terrain enhancements created by the trail contractor shall be gentler than 2H:1V slope but where space or other constraints dictate shall not exceed 1H:1V slope.

Trail Surfacing Material: The intent of the trail surfacing material is to enhance the existing soils so that it is optimized to provide a low rolling resistance and high traction in both wet and dry conditions. In order to achieve this, an approximately 6” layer of surfacing material, screened to ½” minus and compacted in place shall create the trail running surface. This material shall be created by mixing the bulk fill material with imported clay. It is the overall goal for this material to meet the following requirements in order to allow the park to remain open year-round with minimal maintenance or closures:

- Well graded mixture of grain sizes that is compactable
- Drains well and facilitates sheet drainage
- Stays firm and cohesive when moist (winter/wet conditions) and when dry(summer/drought conditions)
- Resists sheer forces created by bicycle tires (braking and turning)
- Reasonably pliable to shape and maintain trail surface
- Natural feel and appearance.

Test samples of surfacing material shall be prepared, installed in place in a test mock up, and approved by the Village or representative prior to proceeding with overall installation.

Drainage: The Contractor shall be responsible for fine grading and positive drainage away from all trails and features. No ponding of water shall occur on trail surfaces. Where required, the Contractor shall install a sub-base of crushed rock to elevate the trail and improve drainage in areas of exceptionally poor drainage. Locations for these improvements shall be determined by the Contractor based on their expertise or at the request of the Village. If piping is required to create drainage, then minimum 200 mm DR 28 PVC pipe shall be utilized to connect to the available storm drainage system, unless otherwise agreed

upon with the Village. ~~The Contractor will also be required to remove and replace a section of 300mm HDPE pipe (approximately 38.5m) that is currently installed at the southern end of the Bike Skills Area and replace it with 300mm PVC pipe. At the end of the drainage pipe, a manhole should be installed followed by another approximately 90m of 300mm PVC pipe to be installed along the south border of the Bike Skills Area, where the system should be connected to a preexisting manhole at the south east corner~~. The Contractor will also be required to replace the existing temporary drainage swale along the northern and western boundary of the Bike Skills Park area, using minimum 300mm PVC pipe and manholes at each change in direction (following MMCD standards) either following the current drainage route, or one that travels through the Bike Skills Park. Details can be found in the site drawing in Appendix A.

.4 SITE AMENITIES

Park Signage: The Contractor shall install ten (10) 6"x6" cedar posts (raw/untreated/unfinished) at locations to be marked in the field by the Village. All signs post bases shall be set 24" below grade, on a 6" gravel bed (total excavation of each hole = minimum 30"). Posts to be set 48" above the surrounding grade with a four-sided, beveled edge top to shed water. Contractor is to supply and install posts, concrete, and gravel, but sign panels are to be designed and installed by the Village (with consultation with the Contractor around trail difficulty)

Posts are to be installed at the following locations ready for sign installation:

- at the beginning of each jump trail indicating the difficulty rating of the jump trail (4)
- at the entrance to the Pump Track (1)
- at exit points of jump trails (4).

Benches: Four (4) benches are to be installed by the Contractor. These benches are to be located on the starting platform and in a staging area. Installation will require leveling an area, importing bedding sand and placing the benches on a pre-cast concrete slab in place on a level site. Village to supply benches.

Picnic tables: Four (4) picnic tables are to be installed by the Contractor. These picnic tables are to be located on the starting platform and in a staging area. Installation will require leveling an area, importing bedding sand and placing the picnic tables on a pre-cast concrete slab in place on a level site. Village to supply picnic tables.

Two (2) Recycling/Garbage Receptacles to be installed by the Contractor. Installation will require leveling an area, importing bedding sand and placing the receptacle and pre-cast concrete slab in place on a level site. Village to supply receptacles.

A bike rack (20 spaces) is to be supplied and installed by the Contractor. Installation will require leveling an area, importing bedding sand and placing the bike rack and pre-cast concrete slab in place on a level site.

Option for shade structure: If budget will allow, a shade structure shall be installed on site, either in the staging area or just outside of the skills area. Design and location to be approved by the Village.

.5 WATER SYSTEM

Supply and install water lines and minimum two (2) frost free, self-draining hose bibs in valve boxes for jump trail maintenance. Water lines to be 1.8m below surface. 19mm diameter polyethylene Class160 tubing. Pipe shall be bedded in bedding sand 50 mm above and below the pipe. The water system layout, including tie in and hose bibs, shall be staked at the same time as the jump lines for review and approval by Village. The hose bibs are to be optimally sited to allow efficient wetting down of jumps with a minimum amount of above ground hose or crossing of jump lines.

Contractor is also to supply hoses to be used during construction and for use by the public in future jump maintenance (hoses to be left on site and to become property of the Village). Hoses are to be 19mm rubber.

A drinking water fountain with a water bottle fill station is to be supplied and installed by the Contractor (Village to approve proposed fountain and mark location). Installation will require leveling an area, importing bedding sand and placing the water fountain and pre-cast concrete slab in place on a level site, and connecting the drinking water fountain to the proposed water system.

.6 SHADE TREES, HYDROSEEDING AND LANDSCAPING

Completed trails shall reflect professional workmanship in appearance, quality and attention to detail. Trails and features shall be well integrated into the site landscaping, aesthetically pleasing in appearance, and well-shaped, crafted and finished according to commonly accepted best practices for high quality and sustainable mountain bike trails. All work must be completed to the satisfaction of the Village. The Contractor shall leave all trails and adjacent areas that were disturbed during the work in a professionally finished condition and minimize disturbance to permanent existing vegetation to the extent in coordination with other contractors and adjacent work. All excavated material generated during construction must be used, removed or blended into the surrounding terrain. Following acceptance of jump lines and cycling infrastructure, the contractor shall rake smooth all non-riding areas within the bike skills area boundary and apply a heavy coating of hydro seed utilizing a high traffic lawn grass mix.

Ten (10) shade trees, of at least 75 mm trunk diameter, shall be supplied and planted near the skills area to provide an area for users to rest under (Village to approve proposed species and mark locations). Along the southern boundary of the Bike Skills Area, thirty (30) trees, minimum 75mm trunk diameter shall be planted to act as a buffer between the adjacent residential and Agricultural Land Reserve properties. (Village to approve proposed species and mark locations).

Irrigation: The Contractor shall supply and install lawn turf head irrigation for the areas hydro seeded within the Bike Skills Area boundary. Drip irrigation should also be installed for all trees planted as part of construction. The irrigation system should be drawn from the existing Soccer Field #1, and should include a battery powered control box to be located within the Bike Skills Area boundary.

.7 ELECTRICAL AND LIGHTING

The contractor shall supply and install electrical conduit for the purpose of future lighting parallel to the pedestrian pathways and staging area within the Bike Skills Area, approximately 150m in length.

.8 STAGING AREA, PEDESTRIAN PATHWAYS AND FENCING

An asphalt staging area should by constructed by the contractor in a location that allows users to access all areas of the skills park with ease, as well as to provide a turnaround area for emergency and service vehicles

This staging area should be large enough to accommodate a service vehicle turning around, as well as at least four picnic tables and a garbage/recycling receptacle. The staging area should link the pedestrian pathways approaching the skills area to the trails within the skills area, and should provide clear sight lines to all areas of the skills park. The staging area must be located in Zone A, where geogrid has been installed.

Pathways: The Contractor should construct a pathway through the Bike Skills Area to connect it from both access points at the eastern and western ends of the Skills Area. The pathway should be a width of at least 3.0m to allow for emergency and service vehicle access. Pathways can be paved with asphalt within Zone A, but should not be paved within Zone B.

Fencing: The Contractor shall install cedar split rail (2 rail) fencing at all locations where there may be a conflict between cyclists and pedestrians (e.g., where trails run near to pathways or staging areas. This fencing should be 1m in height and locations should be approved by the Village prior to installation. Cedar split rail (two rail) fencing should also be installed along the entire southern property boundary at the top of the fill slope.

Engineering and design must:

- meet all standards within the MMCD – Platinum Edition where applicable
- apply sustainable development concepts in the planning, design, construction, environmental management, operation, maintenance and disposal of facilities and infrastructure projects, consistent with applicable laws and budget requirements.

5 MATERIALS AVAILABLE TO SUCCESSFUL PROPONENT

The following materials can be provided to the successful Proponent at no charge:

- Soccer Field #1 As-Built Drawings
- Soccer Field #2 IFC Drawings
- Overall site Stormwater Management Plan (once completed)
- Environmental Assessment.

6 SCHEDULE

The successful Proponent must initiate work within 14 days of issuance of Notice to Proceed. The Village requires that the facility be substantially completed by no later than June 1, 2022 unless otherwise agreed upon. Proponents are to include a detailed schedule for design and construction in their Proposal.

7 PROPOSAL FORMAT AND PREPARATION

Proposals should be provided double-sided on 8 ½" white paper, in a font color of black and not less than 11 point.

Without limiting the requirements set out below, each Proponent should include in its technical submission proposal information and documentation that reasonably demonstrates and allows the Owner to evaluate whether the Proponent is capable of performing the Design-Builder's responsibilities and obligations.

8 PROPOSAL EVALUATION AND SELECTION

The Village of Pemberton will evaluate all submitted valid Proposals. The object of the evaluation and selection process is to identify the Proposal that, in the Village's opinion offers the best value for the Products and/or Services requested.

The Village is not obligated to accept the lowest priced Proposal or any Proposal and may reject all submissions.

The Village has the absolute right to accept or reject any Proposal for any reason, to negotiate with any Proponent or Proponents and to evaluate the Proposals in accordance with all information submitted by the Proponents and to abandon the RFP at any stage, for any reason.

There shall be no obligation on the part of the Village neither to receive further information, whether written or oral, from any Proponent nor to disclose the nature of any Proposal received.

The Village at its discretion, may invite some or all Proponents for an interview to provide clarifications of their Proposals. In such event, the Village will be entitled to consider the answers received in evaluating Proposals.

The Village may award a Contract to the Proponent whose submission, in the Village's sole discretion, provides the best overall value to the Village for the work. In evaluating the overall value to the Village for the work in respect of each submission received, the Village, in addition to price, will have in mind its critical goals of obtaining a high-quality product in accordance with the schedule established under the Request for Proposal documents.

In evaluating overall value, the Village may consider, without limitation, price, qualifications and experience of Proponents, availability of necessary work forces and other resources, proposed methodology and schedule for completing the work, and the past performance of Proponents on similar projects in respect of quality of work, timeliness of work, costs of contract administration to the owner of the project, and costs associated with claims for extras in respect of the project. In this regard, considerations other than price may be of greater weight in the Village's evaluation of submissions received.

Proposals will be evaluated based on the following criteria:

Table 2: Evaluation Criteria

Criteria	Points Assigned
Contractor and team member qualifications, experience, and references	30
Indigenous–Owned Business and/or Indigenous Employment	5
Technical Proposal (Design).	30
Schedule	10
Cost	25
Total Points	**100**

Proposed project teams must be capable of completing all identified tasks; the Village will not consider partial submissions.

Note: Indigenous-Owned Business and Indigenous Employment:

Contractors must provide evidence of Indigenous business and Indigenous employment metrics outlined below:

- An Indigenous business is a sole proprietorship, limited company, cooperative, partnership or not-for-profit organization in which, Indigenous persons have majority ownership and control meaning at least 51%.
- In the case of an indigenous business enterprise with 6 or more full-time employees, at least 33% of the full-time employees are Indigenous.
- Prime contractors must be registered in the Indigenous Business Directory.

Once the preferred Proponent has been identified, the Village will enter into contract discussions to clarify any outstanding issues and agree to contract terms. It is not the Village's intent to revise the Financial Quotation at these discussions unless cost-related adjustments to the Technical Quotation are identified by the Village and/or the Proponent.

If discussions are successful, the Village and the preferred Proponent will develop a formal contract for contract award and commence the Project. If discussions are unsuccessful, the Village reserves the right to enter into contract discussions with other Proponents, and/or to decide not to award a contract at all.

<END OF PART A>

PART B – PROPOSAL DOCUMENTS

1 FINANCIAL PROPOSAL

PROPONENT'S FINANCIAL PROPOSAL

Schedule of Prices

Proponents should provide the following breakdown of the Contract Price which 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, cash allowances, contingencies and all duties and taxes, excluding GST payable by the Owner to the Design-Builder (use the spaces provided and/or attach additional pages, if necessary):

Bike Skills Park Detailed Contract Price

Item	Description	Price
1	Engineering & Design	
2	Site Works	
3	Civil Works - Dirt Jumps and Skills Area	
4	Civil Works – Pump Track	
5	Storm sewer connection from collector to existing storm drainage system	
6	Water connection to the existing water system	
7	One water fountain equipped with water bottle fill station	
8	One Bike rack	
9	Two hose bibs	
10	Four Picnic tables	
11	Four Benches	
12	Landscaping: Shade Trees, hydro seeding and other non-trail areas.	
13	Irrigation of all landscaped areas and trees	
13	Electrical (e.g., conduit and park lighting)	
14	Site Signage	
15	Two Garbage/Recycling Receptacles	
16	Jobsite Facilities (construction utilities, porta-potties)	
17	Project Supervision oversight	
18	Clean Up, Disposal and recycling	
19	Fencing	
20	Staging Area and pathways	
	Total Contracting Price (excluding GST):	**$**
21	Option: Shade structure	

The Contractor will commence work upon the Owner's issuance of a Notice to Proceed and, unless the Agreement is terminated sooner, will complete the full scope of work on or before June 1, 2022.

2 PROJECT SCHEDULE

The Contractor shall submit a detailed construction schedule which must include, but is not limited to, the following items:

1. Design Phase
2. Mobilization
3. Site Prep.
4. Construction
5. Inspections/Site Meetings
6. Final Review

- Key Milestone: June 1, 2022 – Substantial completion of Bike Skills Park.

3 TECHNICAL PROPOSAL

The Contractor shall provide the following information with their Proposal:

- **Comparable Experience and Capability:** Describe the companies experience and reputation, key personnel qualifications, and a list of minimum three (3) past projects completed within the last five (5) years including the following details:

  a) Project location and contact details of Owner/Client (email and phone)
  b) Project Name
  c) Project Description / Scope of Work
  d) Cost/Value of Project
  e) Date of Completion

- **Project Management Plan:** Describe the overall approach to the team organization, structure and processes, including details regarding the following:

  a) the frequency of project management meetings between the Design-Builder and the Village.
  b) subcontractor relations and agreements.
  c) the planned approach to Project approvals, change management, and work procedures.
  d) A list of all team members including their roles and responsibilities (including consultants, material suppliers and subcontractors).
  e) the approach to document control and management of the Project.

- **Quality Management Plan:** Provide a draft design and construction quality management plan prepared specifically for this Project including:

a) Design reviews and record documentation
b) Procurement of materials and engagement of sub-contractors
c) Permitting and compliance
d) Inspection
e) Special procedures for adverse weather conditions
f) Quality assurance and warranty of components
g) confirmation of design assumptions; and
h) Substantial Completion and Handover.

- **Design Proposal Plan:** Provide details on the proposed design process for the Project, including but not limited to the following:

a) A narrative outlining how to achieve the Owner's Statement of Requirements
b) Outline Bike Skills Park specifications in line with regulation and local requirements (e.g., MMCD, Trail standards, accessibility, etc)
c) Detailed design plan showing the layout of the Bike Skills Park
d) Information on the equipment and materials to be incorporated into the project
e) Provide a complete list of any design non-conformances, separated by design discipline.

< END OF PART B >

APPENDIX A – CONCEPTUAL DRAWING

N

Bike skills Park
Entry Point

Field-1 Existing

Field-2 In Progress

Ashphalt track
In progress

Bike skills Park
Entry Point

Baseball Diamond- Future

206.37
206.69
206.81
207.16
207.1
207.79
207.07
207.36
206.36
206.2
206.18
206.5
206.4
206.13
206.1
207
207
207

14 m
14 m
35.8 m
16.22 m
16.22 m
145.8 m
48.5 m

Proposed watermain
and service stub to be
installed by village prior
to the construction

Existing Drainage Pipe
300 mm PVC

Existing open ditch

Legend

- Proposed Geogrid Extents
- Property Line
- Bike Skills Park Boundary
- Existing Rocks Boundary
- Stormwater drainage pipe
- Open Ditch
- watermain
- Proposed manholes to be installed by the Village

207.12
207.11
205.43
204.86
207.31
206.11
206.05
204.78
206.69
206.07
206.48
205.38
206.71
206.73
207.02
206.65
205.58
207.02
206.64
206.44
205.25
205.6
204.91

71.8 m
71.8 m
14.7 m
31 m
43.7 m

ZONE-A
Proposed Geo-Grid
(Suitable for Ashphalt)
2715 Sq.m

ZONE-B
Non Geo-Grid
(Not suitable for Ashphalt)
6263 Sq.m

Proposed tree line and split rail fence
to be installed by contractor approx. 7m apart
from the property line

131 m

53.8 m

Future Residential site

Existing Residence

0 5 10 20 30 40
Meters

Bike Skills Park Layout Map


Future Trail
Railway
Pemberton Farm Road East
Future Friendship Trail
Pump Stn
Friendship Trail
Parking
Existing (Gravel)
Residents Parking
Sunstone Drive
Recreation Complex
Location only- architecture by others)
Parking
Future Phase
Children's
Play Area
Future
Field #1
Existing
Field #2
Parking
Phase-2
Sabre Way
Recreation Site
7.76ha (19.2ac)
Soccer Field
Amenity Building
Bike Skills Area
Softball/Baseball
Future Phase
Softball
Baseball
Future School Entry

APPENDIX B – GEOTECHNICAL REPORT

KONTUR
GEOTECHNICAL CONSULTANTS

May 10, 2021
Project No.: **K-211216-00**

Tom Csima
Village of Pemberton
Box 100 – 7400 Prospect Street,
Pemberton, B.C.
V0N 2L0

Attention: **Tom Csima**
tcsima@pemberton.ca

RE: **Geotechnical Assessment**
Proposed Bike Skills Park
7366 Pemberton Farm Road, Pemberton B.C.

Dear Tom Csima,

1.0 INTRODUCTION

In accordance with your recent authorization, Kontur Geotechnical Consultants Inc. (Kontur) has completed this geotechnical assessment for the above-referenced project. The purposes of this assessment were to characterize the site from a geotechnical point-of-view and to provide comments and recommendations with respect to site development and foundation design.

This letter, which summarizes the findings of the assessment, has been prepared in accordance with standard and widely accepted geotechnical engineering principles and practices for similar projects in this region. This letter does not address any environmental issues or considerations related to the proposed project.

Review and use of this letter should be completed in accordance with the attached *Interpretation and Use of Study and Report* document. It is included as an integral part of this letter and should be read in conjunction with all parts of this letter.

It is understood that there are no habitable spaces being considered for the Bike Skills Park, as such a Flood Construction Level (FCL) is not considered to be applicable. If a habitable space or infrastructure that could be affected by flooding are considered or in the future, a FCL should be determined for the area.

2.0 SOURCES OF INFORMATION

The following sources of information were reviewed as pat of this study:

- Information obtained from Kontur's in-house geotechnical database of nearby projects;
- Kontur's nearby experience in the area;
- Published surficial geology maps of the area specifically *"MAP 5324 Surficial Geology and Landslide Inventory of the Upper Sea to Sky Corridor"* published by the Geological Survey of Canada;

Unit 65, 1833 Coast Meridian Road, Port Coquitlam, BC V3C 6G5 | +1 (778) 730-1747 | info@kontur.ca | www.kontur.ca

- Bike Skills Park conceptual design provided by Village of Pemberton; and,
- Geotechnical site reconnaissance and exploration as described in this report.

3.0 UNDERSTANDING OF PROJECT

Based on review of proposed conceptual design, it is understood that Village of Pemberton is proposing to build a Bike Skills Park to the south-east of the existing soccer field located at the above-noted address. The park generally consists of a paved pump track area located at the west perimeter and dirt tracks to the east of the above noted site. In addition, picnic tables, water fountains and staging area are proposed to be located in between the paved pump and dirt tracks.

4.0 FIELD WORK

To obtain soil and groundwater information, Kontur observed test pit excavations on March 30th, 2021 to complete the geotechnical exploration program. The exploration involved excavating a total of five (5) test pits (TP21-01 through TP21-05) mobilized by a contractor retained by the Village of Pemberton. The test pits were located around the pump track and were excavated to depths ranging from about 3.0 to 3.7m. Excavated soil were visually classified and logged in the field by Kontur's Field Personnel, and soil samples were obtained and brought back to the laboratory. Upon completion of the excavations, test pits were backfilled with excavated material.

The approximate testhole location are shown on the attached *Figure 1 – Vicinity Map and Site Layout* and detailed test pits soil logs are attached.

5.0 SITE DESCRIPTION

The subject site was relatively flat lying with an approximately 2m high preload at the north-east perimeter of the site. An existing soccer field is located to north of the site, and it is bounded by Sunstone Way to the north, undeveloped land with gravel covering to the south and west and cleared land to east.

A review of surficial geology map *"Surficial Geology and Landslide Inventory of the Upper Sea to Sky Corridor"* indicated the subject site is underlain by Floodplain Sediments consisting of sand and silt, commonly including organic material, and underlain in many places by gravel.

Based on the results of the geotechnical exploration program, the following generalized soil conditions are anticipated. A topsoil layer with woody debris near the surface to a depth of about 0.3m was encountered at four of the five completed test pits, (TP21-02 through -05). Test Pit TP21-01 encountered about 1.0m of fill material consisting of gravelly sand, trace silt at surface. A clayey silt with some organics layer was found below the above noted surface layers within all test pits, this layer ranged from about 0.5 to 2.8m in depth. A granular layer was found below the clayey silt at TP21-03 consisting of interbedded silty sand and gravelly sand about 1.2m thick. Peat was encountered at TP21-04 and TP21-05 with thickness varying from 0.3 to 1.3m and was encountered as shallow as 0.9m below ground surface. Subsequent layers of clayey silt were encountered below and above the peat layers on TP21-04 and TP21-05. In general, peat layers were not encountered at TP21-01, TP21.02 or TP21-03, however, the underlying soils consisted of soft to firm cohesive soils prone to settlement when loaded. The findings of the test pit program are summarized in the Table below.

Test Pit Identifier	Depth Below Ground Surface to Top of Layer	Layer Thickness	Soil Description
TP21-01	0.0m	0.9m	(FILL) GRAVELLY SAND, trace silt, greyish brown, moist (compact)
	0.9m	N/A	CLAYEY SILT, trace sand, trace organics, brownish grey, moist (Soft to firm)
TP21-02	0.0m	0.3m	TOPSOIL/ woody debris
	0.3	N/A	CLAYEY SILT some organics, trace sand, brownish grey, moist to wet (soft to firm)
TP21-03	0.0m	0.3m	TOPSOIL/ woody debris
	0.3m	1.5m	CLAYEY SILT some organics, trace sand, brownish grey, moist to wet (soft to firm)
	1.8m	0.6m	SILTY SAND, some gravel, moist to wet (compact)
	2.4m	N/A	GRAVELLY SAND, trace silt, grey, wet (compact to dense)
TP21-04	0.0m	0.3m	TOPSOIL/ woody debris
	0.3m	0.6m	CLAYEY SILT, trace organics, trace sand, grey moist to wet (soft to firm)
	0.9m	0.3m	PEAT, frequent woody debris, brownish grey, moist to wet (soft to firm)
	1.2m	1.2m	CLAYEY SILT, some organics, trace sands, woody debris, brownish grey, moist to wet (soft to firm)
	2.4m	N/A	Peat, woody debris, brown, wet (soft)
TP21-05	0.0m	0.3m	TOPSOIL/ woody debris
	0.3m	1.5m	CLAYEY SILT, trace organics, trace sand, grey, moist to wet (soft to firm)
	1.8m	0.9m	PEAT, frequent woody debris, wet (soft)
	2.7	N/A	CLAYET SILT, some organics, trace sand, woody debris, grey, moist to wet, (soft to firm)

TP21-01 encountered geogrid at the base of the fill layer, indicating that this area had been previously prepared and subgrade preparations completed in accordance with the recommendations for the soccer field.

Groundwater seepage was noted within the completed test pits at depth ranging from surface elevation to 1.0m below existing ground surface. The groundwater level is expected to fluctuate depending on the season.

It is important to note that the soil and groundwater conditions above and encountered in the specific test pits are representative of the soil conditions in the immediate vicinity of each test pit. Extrapolation and interpretation of the soil profile and groundwater is formulated based on an assumed horizontal continuity of subsurface conditions across the site. Therefore, the soil units described above are generalized and based on available test pit information only. Variation in the stratigraphic conditions should always be expected.

6.0 COMMENTS AND RECOMMENDATIONS

6.1 Settlement Considerations

As previously noted, the site is underlain by soft to firm clayey silt and peat. These soils may be susceptible to settlement when subjected to increased loading. In order to mitigate potential post-construction differential settlement a preload surcharge is recommended if areas of proposed grade increases where the above-noted current preload does not extend. Due to the thickness of the soft to firm silty clay, over-excavation to remove settlement sensitive soils is not recommended.

Please note that this report does not address the design of the bike park and should be addressed by others.

6.2 Paved Pump Track

Site preparation for the proposed paved areas include mowing of the bike park area leaving the surficial root system in place. In the area of the proposed pave portion of the bike park, the mowed area should be overlain with triaxial geogrid (TX7), overlapping the edges by at least 450mm. A second layer of triaxial geogrid should be placed within the structural fill about 500mm above the lower geogrid.

Structural fill consisting of granular soils with some cobbles may be placed over the geogrid with a thickness up to about 0.5m. This lift should be compacted with several passes of a heavy ride-on type static roller. The remaining structural fill required to achieve design subgrade elevation should consist of 75mm minus pit run sand and gravel placed in lifts with a maximum thickness of about 500mm, compacted with several passes of a heavy ride on type vibratory roller. Compacted structural fill should be density tested to confirm 95% Modified Proctor Maximum Dry Density has been achieved.

A preload surcharge should be placed over the structural fill to mitigate post-construction settlements. The crest of the preload should extend at least 1.5m beyond the outside edge to the proposed grade increases and be at least 2m above design finished grade. The preload side slopes should be inclined no steeper than 1.5H: 1V (Horizontal: Vertical). Settlement gauges should be placed on top of the structural fill with a spacing of about 12m.

If the proposed pump track is to be placed on areas prepared in accordance with recommendations for the soccer field it is recommended that the subgrade be prepared as described above; however, additional preloading of this are ais not considered necessary.

6.3 Dirt Track

It is Kontur's understanding that a till-like material (silty sand with some gravel) obtained from the Sunstone Development is proposed to be used as fill for the Dirt Track. The lower 1m of the fill should be placed in lifts with a maximum thickness of about 0.5m and compacted with a static roller. The remaining fill should be placed in lifts with a maximum thickness of 300mm compacted to at least 95% Modified Proctor Maximum Dry Density (MPMDD).

A preload surcharge should be placed over the structural fill to mitigate post-construction settlements. The crest of the preload should extend at least 1.5m beyond the outside edge to the proposed grade increases and be at least 2m above design finished grade. The preload side slopes should be inclined no steeper than 2.0H: 1V (Horizontal: Vertical).

It should be noted that some surficial sloughing of the fill slopes may occur, particularly with the use of till fill. Repair of these areas could be achieved with placement of rip rap or shot rock during construction of the dirt track. It is expected that the dirt track area will undergo significant post-construction settlement and ongoing maintenance will be required.

7.0 FIELD REVIEW

To sign-off on the work, Kontur must complete the necessary field reviews during the construction stage of the project. Field reviews may be required, but are not limited to, the following stages:

- Subgrade and bearing surface review and approvals;
- Placement and compaction of fills.

Kontur requires at least 48 hours of advanced notice to visit the site when the work is ready for review.

8.0 CLOSURE

The comments and recommendations presented in this letter are based on the referenced information and Kontur's understanding of the project as described herein. If site conditions or project parameters differ from those described in this letter, Kontur should be notified promptly to review geotechnical aspects of the project and provide additional or modified comments and recommendations, as deemed appropriate. Contractors should make their own assessments of subsurface conditions at this site and select the construction means and methods that are most appropriate for encountered site conditions.

This letter has been prepared for the exclusive use of Village of Pemberton and/or their designated agents or consultants. Any use of the information contained in this letter for other than its intended purpose or by any other party must first be verified in writing by Kontur. Kontur does not accept any responsibility or damages because of any other party relying on or using the information, interpretations, opinions, comments, and/or recommendations that are contained in this letter.

Kontur trusts that the information described above meets your current requirements. If you should have any concerns or questions, please do not hesitate to contact the undersigned.

Sincerely,

Kontur Geotechnical Consultants Inc.

Per:

May 10, 2021

Evan Sykes PEng
Principal | Geotechnical Engineer

Reviewed by:

2021-05-10

J.Y. (Yoshi) Tanaka PEng
Principal | Geotechnical Engineer

Attachments: Interpretation and Use of Study and Report Document
Soil Logs
Figure 1 – Vicinity Map and Site Layout

INTERPRETATION AND USE OF STUDY AND REPORT DOCUMENT

1.0 STANDARD OF CARE

This study and Report have been prepared in accordance with generally accepted engineering consulting practices in this area. No other warranty, expressed or implied, is made. Engineering studies and reports do not include environmental engineering or consulting.

2.0 COMPLETE REPORT

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment are a part of the Report which is of a summary nature and is not intended to stand alone without reference to the instructions given to us by the Client, communications between us and the Client, and to any other reports, writings, proposals or documents prepared by us for the Client relative to the specific site described herein, all of which constitute the Report.

IN ORDER TO PROPERLY UNDERSTAND THE SUGGESTIONS, RECOMMENDATIONS AND OPINIONS EXPRESSED HEREIN, REFERENCE MUST BE MADE TO THE WHOLE OF THE REPORT. WE CANNOT BE RESPONSIBLE FOR USE BY ANY PARTY OF PORTIONS OF THE REPORT WITHOUT REFERENCE TO THE WHOLE REPORT.

3.0 BASIS OF THE REPORT

The Report has been prepared for the specific site, development, building, design or building assessment objectives and purpose that were described to us by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the document are only valid to the extent that there has been no material alteration to or variation from any of the said descriptions provided to us unless we are specifically requested by the Client to review and revise the Report in light of such alteration or variation.

4.0 USE OF THE REPORT

The information and opinions expressed in the Report, or any document forming the Report, are for the sole benefit of the Client. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION THEREOF WITHOUT OUR WRITTEN CONSENT. WE WILL CONSENT TO ANY REASONABLE REQUEST BY THE CLIENT TO APPROVE THE USE OF THIS REPORT BY OTHER PARTIES AS "APPROVED USERS". The contents of the Report remain our copyright property and we authorise only the Client and Approved Users to make copies of the Report only in such quantities as are reasonably necessary for the use of the Report by those parties. The Client and Approved Users may not give, lend, sell or otherwise make the Report, or any portion thereof, available to any party without our written permission. Any use which a third party makes of the Report, or any portion of the Report, are the sole responsibility of such third parties. We accept no responsibility for damages suffered by any third party resulting from unauthorised use of the Report.

5.0 INTERPRETATION OF THE REPORT

Nature and Exactness of Descriptions: Classification and identification of soils, rocks, geological units, contaminant materials, building envelopment assessments, and engineering estimates have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors are judgmental in nature and even comprehensive sampling and testing programs, implemented with the appropriate equipment by experienced personnel, may fail to locate some conditions. All investigations, or building envelope descriptions, utilizing the standards of Paragraph 1 will involve an inherent risk that some conditions will not be detected and all documents or records summarising such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points investigated and all persons making use of such documents or records should be aware of, and accept, this risk. Some conditions are subject to change over time and those making use of the Report should be aware of this possibility and understand that the Report only presents the conditions at the sampled points at the time of sampling. Where special concerns exist, or the Client has special considerations or requirements, the Client should disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of the Report.

Reliance on Provided information: The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of site inspections and on the basis of information provided to us. We have relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, we cannot accept responsibility for any deficiency, misstatement or inaccuracy contained in the report as a result of misstatements, omissions, misrepresentations or fraudulent acts of persons providing information.

To avoid misunderstandings, KONTUR should be retained to work with the other design professionals to explain relevant engineering findings and to review their plans, drawings, and specifications relative to engineering issues pertaining to consulting services provided by KONTUR. Further, KONTUR should be retained to provide field reviews during the construction, consistent with building codes guidelines and generally accepted practices. Where applicable, the field services recommended for the project are the minimum necessary to ascertain that the Contractor's work is being carried out in general conformity with KONTUR's recommendations. Any reduction from the level of services normally recommended will result in KONTUR providing qualified opinions regarding adequacy of the work.

6.0 ALTERNATE REPORT FORMAT

When KONTUR submits both electronic file and hard copies of reports, drawings and other documents and deliverables (KONTUR's instruments of professional service), the Client agrees that only the signed and sealed hard copy versions shall be considered final and legally binding. The hard copy versions submitted by KONTUR shall be the original documents for record and working purposes, and, in the event of a dispute or discrepancy, the hard copy versions shall govern over the electronic versions. Furthermore, the Client agrees and waives all future right of dispute that the original hard copy signed version archived by KONTUR shall be deemed to be the overall original for the Project.

The Client agrees that both electronic file and hard copy versions of KONTUR's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except KONTUR. The Client warrants that KONTUR's instruments of professional service will be used only and exactly as submitted by KONTUR.

The Client recognizes and agrees that electronic files submitted by KONTUR have been prepared and submitted using specific software and hardware systems. KONTUR makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

Kontur Geotechnical Consultants Inc.
Unit 65, 1833 Coast Meridian Rd.
Port Coquitlam, BC V3C 6C5
Telephone: (778) 730-1747

RECORD OF TEST PIT : TP21-01

CLIENT Village of Pemberton
PROJECT NAME Proposed Bike Skills Park
EXCAVATION DATE 2021-03-30
EXCAVATION METHOD Test Pit
EXCAVATION CONTRACTOR -
EQUIPMENT TYPE Excavator

PROJECT NUMBER KP-211335-00
PROJECT LOCATION 7366 Pemberton Farm Road, Pemberton B.C.
TEST PIT LOCATION N: 5574000 E: 517352
ELEVATION 206.00m (approximate)
GROUNDWATER DEPTH AT TIME OF EXCAVATION
LOGGED BY TVR **CHECKED BY** EGS

DEPTH (m)	STRATA	SOIL DESCRIPTION	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: RECOVERY %	SPT 'N' VALUE BLOWS/0.3m (▲) 20 40 60 80 / DYNAMIC CONE BLOWS/0.3m (□) 20 40 60 80	POCKET PEN. (kPa) (⊙) 100 200 300 400 / FIELD VANE SHEAR (kPa) Peak (●) Remold (○) 40 80 120 160	FINES CONTENT (%) (□) 20 40 60 80 / PLASTIC & LIQUID LIMIT WATER CONTENT PL MC LL 20 40 60 80	GROUNDWATER
		(FILL) GRAVELLY SAND, trace silt, greyish brown, moist (compact)	205.1							
1		CLAYEY SILT, trace sand, trace organics, brownish grey, moist (soft to firm) - seepage at 1m depth	0.9							
2										
3			202.3							

Bottom of test pit at 3.7m.

Kontur Geotechnical Consultants Inc.
Unit 65, 1833 Coast Meridian Rd.
Port Coquitlam, BC V3C 6C5
Telephone: (778) 730-1747

RECORD OF TEST PIT : TP21-02

CLIENT Village of Pemberton
PROJECT NAME Proposed Bike Skills Park
EXCAVATION DATE 2021-03-30
EXCAVATION METHOD Test Pit
EXCAVATION CONTRACTOR -
EQUIPMENT TYPE Excavator

PROJECT NUMBER KP-211335-00
PROJECT LOCATION 7366 Pemberton Farm Road, Pemberton B.C.
TEST PIT LOCATION N: 5573980 E: 517368
ELEVATION 205.00m (approximate)
GROUNDWATER DEPTH AT TIME OF EXCAVATION
LOGGED BY TVR **CHECKED BY** EGS

DEPTH (m)	STRATA	SOIL DESCRIPTION	ELEV. DEPTH (m)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY %	SPT 'N' VALUE BLOWS/0.3m ▲ 20 40 60 80 / DYNAMIC CONE BLOWS/0.3m □ 20 40 60 80	POCKET PEN. (kPa) ⊙ 100 200 300 400 / FIELD VANE SHEAR (kPa) Peak ● Remold ○ 40 80 120 160	FINES CONTENT (%) □ 20 40 60 80 / PLASTIC & LIQUID LIMIT WATER CONTENT PL MC LL 20 40 60 80	GROUNDWATER
		TOPSOIL & WOOD DEBRIS	204.7							
		CLAYEY SILT, some organics, trace sand, brownish grey, moist to wet(soft to firm)	0.3							
		- seepage at 0.6m depth								
1										
2										
3			202.0							

Bottom of test pit at 3.0m.

Kontur Geotechnical Consultants Inc.
Unit 65, 1833 Coast Meridian Rd.
Port Coquitlam, BC V3C 6C5
Telephone: (778) 730-1747

RECORD OF TEST PIT : TP21-03

CLIENT Village of Pemberton
PROJECT NAME Proposed Bike Skills Park
EXCAVATION DATE 2021-03-30
EXCAVATION METHOD Test Pit
EXCAVATION CONTRACTOR -
EQUIPMENT TYPE Excavator

PROJECT NUMBER KP-211335-00
PROJECT LOCATION 7366 Pemberton Farm Road, Pemberton B.C.
TEST PIT LOCATION N: 5573967 E: 517369
ELEVATION 205.00m (approximate)
GROUNDWATER DEPTH AT TIME OF EXCAVATION
LOGGED BY TVR **CHECKED BY** EGS

DEPTH (m)	STRATA	SOIL DESCRIPTION	ELEV. DEPTH (m)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY %	SPT 'N' VALUE BLOWS/0.3m ▲ 20 40 60 80 / DYNAMIC CONE BLOWS/0.3m □ 20 40 60 80	POCKET PEN. (kPa) ⊙ 100 200 300 400 / FIELD VANE SHEAR (kPa) Peak ● Remold ○ 40 80 120 160	FINES CONTENT (%) □ 20 40 60 80 / PLASTIC & LIQUID LIMIT WATER CONTENT PL MC LL 20 40 60 80	GROUNDWATER
		TOPSOIL & WOOD DEBRIS	204.7							
1		CLAYEY SILT, some organics, trace sand, brownish grey, moist to wet (soft to firm) - seepage at 1m depth	0.3 203.2							
2		SILTY SAND, some gravel, grey, moist to wet (compact)	1.8 202.6							
3		GRAVELLY SAND, trace silt, grey, wet (compact to dense)	2.4 202.0	S1	GB					

Bottom of test pit at 3.0m.

Kontur Geotechnical Consultants Inc.
Unit 65, 1833 Coast Meridian Rd.
Port Coquitlam, BC V3C 6C5
Telephone: (778) 730-1747

RECORD OF TEST PIT : TP21-04

CLIENT Village of Pemberton
PROJECT NAME Proposed Bike Skills Park
EXCAVATION DATE 2021-03-30
EXCAVATION METHOD Test Pit
EXCAVATION CONTRACTOR -
EQUIPMENT TYPE Excavator

PROJECT NUMBER KP-211335-00
PROJECT LOCATION 7366 Pemberton Farm Road, Pemberton B.C.
TEST PIT LOCATION N: 5573962 E: 517372
ELEVATION 205.00m (approximate)
GROUNDWATER DEPTH AT TIME OF EXCAVATION
LOGGED BY TVR **CHECKED BY** EGS

DEPTH (m)	STRATA	SOIL DESCRIPTION	ELEV. / DEPTH (m)	SAMPLES NUMBER	SAMPLES TYPE	RECOVERY %	SPT 'N' VALUE BLOWS/0.3m (▲) 20 40 60 80 / DYNAMIC CONE BLOWS/0.3m (□) 20 40 60 80	POCKET PEN. (kPa) (⊙) 100 200 300 400 / FIELD VANE SHEAR (kPa) Peak (●) Remold (○) 40 80 120 160	FINES CONTENT (%) (□) 20 40 60 80 / PLASTIC & LIQUID LIMIT WATER CONTENT PL MC LL 20 40 60 80	GROUNDWATER
		TOPSOIL & WOOD DEBRIS	204.7							
		CLAYEY SILT, trace organics, trace sand, grey, moist to wet (soft to firm)	0.3 / 204.1							
1		PEAT, frequent pieces of wood, brown, wet (soft)	0.9 / 203.8							
2		CLAYEY SILT, some organics, trace sand, frequent pieces of wood, brownish grey, moist to wet (soft to firm)	1.2 / 202.6	S2	GB					
3		PEAT, frequent pieces of wood, brown, wet (soft)	2.4 / 201.3	S3	GB					

Bottom of test pit at 3.7m.

Kontur Geotechnical Consultants Inc.
Unit 65, 1833 Coast Meridian Rd.
Port Coquitlam, BC V3C 6C5
Telephone: (778) 730-1747

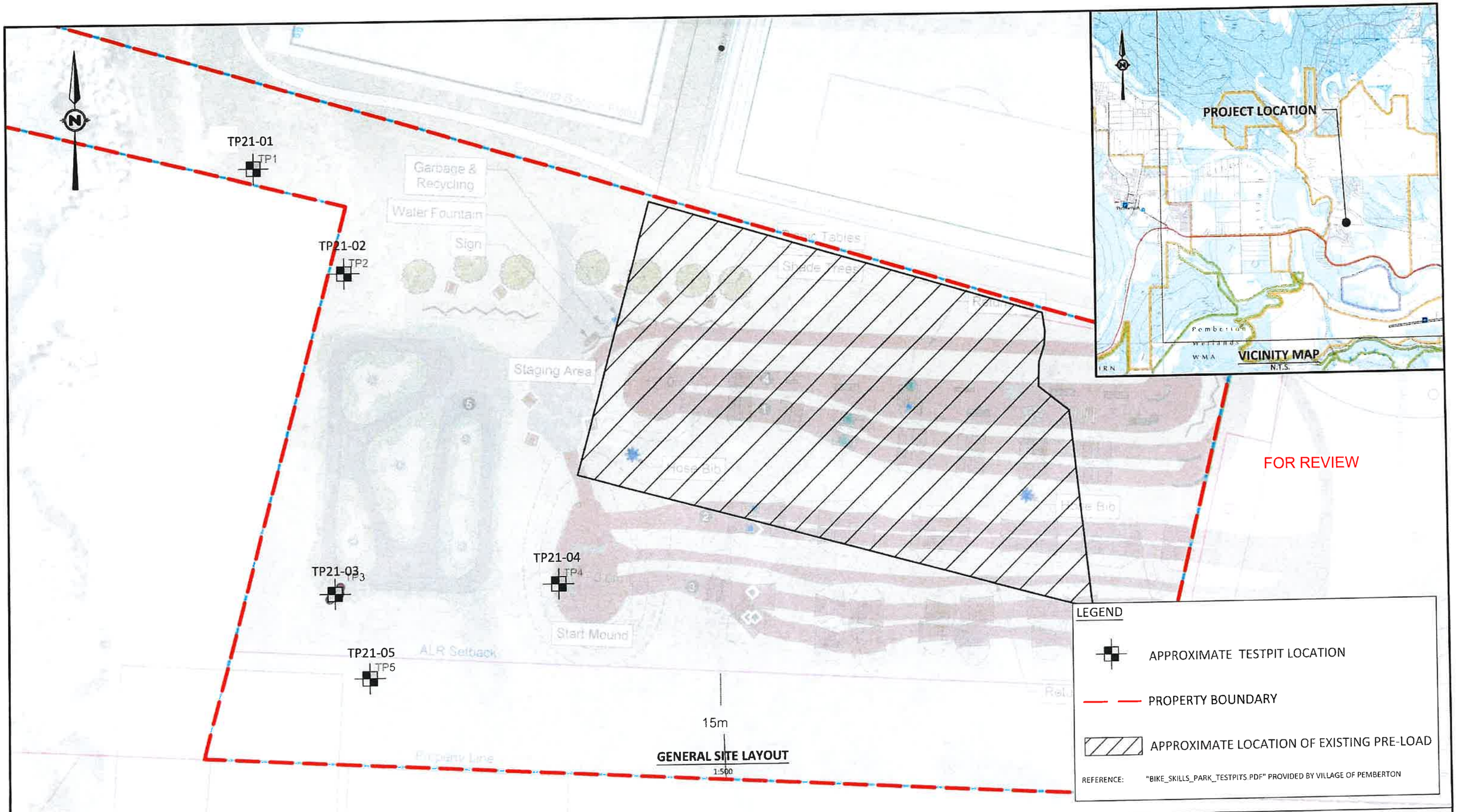
RECORD OF TEST PIT : TP21-05

CLIENT Village of Pemberton
PROJECT NAME Proposed Bike Skills Park
EXCAVATION DATE 2021-03-30
EXCAVATION METHOD Test Pit
EXCAVATION CONTRACTOR -
EQUIPMENT TYPE Excavator

PROJECT NUMBER KP-211335-00
PROJECT LOCATION 7366 Pemberton Farm Road, Pemberton B.C.
TEST PIT LOCATION N: 5573968 E: 517385
ELEVATION (approximate)
GROUNDWATER DEPTH AT TIME OF EXCAVATION
LOGGED BY TVR **CHECKED BY** EGS

DEPTH (m)	STRATA	SOIL DESCRIPTION	ELEV. DEPTH (m)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY %	SPT 'N' VALUE BLOWS/0.3m (▲ 20 40 60 80) / DYNAMIC CONE BLOWS/0.3m (□ 20 40 60 80)	POCKET PEN. (kPa) (⊙ 100 200 300 400) / FIELD VANE SHEAR (kPa) Peak (● 40 80 120 160) Remold (○)	FINES CONTENT (%) (□ 20 40 60 80) / PLASTIC & LIQUID LIMIT WATER CONTENT PL MC LL (20 40 60 80)	GROUNDWATER
		TOPSOIL & WOOD DEBRIS								
1		CLAYEY SILT, trace organics, trace sand, grey, moist to wet (soft to firm)	0.3							
		- some organics and frequent pieces of wood after 1.5m								
2		PEAT, frequent pieces of wood, brown, wet (soft)	1.8	S4	GB					
3		CLAYEY SILT, some organics, trace sand, frequent pieces of wood, brownish grey, moist to wet (soft to firm)	2.7	S5	GB					

Bottom of test pit at 3.7m.



GENERAL SITE LAYOUT
1:500

FOR REVIEW

April 2, 2021 11:00:55 AM

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SEAL

VERSIONS

NO	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	2021-04-01

TITLE: FIGURE 1 - VICINITY MAP AND SITE LAYOUT

CLIENT: VILLAGE OF PEMBERTON

PROJECT LOCATION: 7366 PEMBERTON FARM ROAD, PEMBERTON B.C.

PROJECT NO.: KP-211335-00

DATE:	SCALE:	DWG NO.:
2021-04-01	1:500	FIGURE 1

DRAFT:	DESIGN:	CHECK:
TVR	-	EGS