



BRITISH COLUMBIA HYDRO AND POWER AUTHORITY  
(BC HYDRO)

## Ruskin – Public Use - Recreation Site & BC Hydro's Industrial Use

MANAGEMENT PLAN FOR APPLICATION LICENCE OF OCCUPATION;  
CROWN FILE NO.: 2410197; BCH FILE: WP 63 PT. 1

BC HYDRO PROJECT NO.: GZ0002

**TO:**

MINISTRY OF FORESTS, LANDS & NATURAL RESOURCE OPERATIONS  
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**SUBMITTED BY:**

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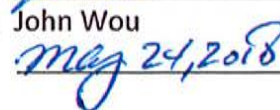
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Signature of Area Manager:

Lower Mainland Generation John Wou

Date of Signature:

May 2018

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# Management Plan for Ruskin Public Use Recreation and Industrial Site

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## 1.0 Background

### 1.1 Project Overview

Describe project for which authorization is requested, including construction and/or phased development details:

BC Hydro was issued a Temporary Licence of Occupation 21385 for the Ruskin Dam and Powerhouse Upgrade Project to use the Crown Land as a project laydown area. As the project is reaching completion, BC Hydro would like to apply for a 30 year Licence of Occupation for the following purposes:

- A public use recreation area (“PUMA”) including the installation and maintenance of basic recreation amenities, such as vehicle parking, trails, picnic tables and toilets.
- A controlled boat launch provides gated access to Stave River for BC Hydro, DFO and others involved in environmental work on the Lower Stave River.
- A self-rescue bridge linking the Crown upland with an adjacent island that is heavily used by anglers and picnickers. The fishery channel, between the upland and the island has been developed by DFO and other to enhance fish spawning and rearing. Without a self-rescue bridge to link these two sites, the public must negotiate the channel on foot – putting themselves at considerable risk during periods of high water conditions. Some River rock has washed away at both ends of the self-rescue bridge and it will be replaced. In addition, diamond mesh screen will be installed on the deck of the bridge to improve traction and safety for those walking on the wooden deck.



- An industrial Licence (0.40 hectares) to accommodate BC Hydro’s Generation Operation need for access and control of the “lower” route to the Ruskin Generating Station. Part of this route is situated on Crown Land and BC Hydro needs to control public access for safety and security reasons. Access will be restricted by fencing and a gate as the areas is within the electrical ground grid. Also located on the Crown Land is a diesel generating building which is used as emergency back-up power for the Ruskin Powerhouse and Dam.
- Public safety boom anchor only - the boom across the waterway is covered under ancillary works of the Conditional Water Licence 117533 and 117535. There’s no Permit to Occupy Crown Land that covers the anchor installation.

For the Recreational area being 1.54 Hectares, BC Hydro would like to request that a Standard Licence be issued under the BC Hydro Schedule H agreement and we seek a policy variance on pricing due to this area being used to benefit the public.

## 1.2 Investigative Work

If any preliminary investigative work has been carried out, with or without an investigative authorization, provide details on work completed, incomplete or on-going from previous term.

Activity	Brief Description of Activity	Status (e.g. Complete; Incomplete; Ongoing)	Comments / Milestones

## 1.3 Confirmation of Safety Plan

Your Project must meet the Occupational Health and Safety (OHS) criteria set out by WorkSafe BC. Does your Project meet these criteria?

Yes: ☒ No: ☐

## 1.4 First Nations Consultation

Describe any contact you may have had, including the name of the First Nation(s) and representatives contacted.

Kwantlen First Nation (KFN) will be contacted for consultation on the land transfer. Emails and subsequent meetings will be with Tumia Knott – Councillor, Drew Atkins – KFN Land Services, and Chief Marilyn Gabriel.

## 2.0 Location

### 2.1 Description

Provide a general description of the location of the project:

Located approximately 60 km East of Vancouver on the Stave River, in the District of Mission. The Crown Land application area is located on a strip of Crown land lying between the left (East) bank of the Stave River and BC Hydro's Land legally described as PID:013-344-960 Parcel "A" (Plan with fee deposited 7480E) S.E. ¼ Section 10, Township 15, New Westminster District.

### 2.2 Location Justification

Provide your reasons/justification of the need for this type of project at this location:

The Ruskin Dam and Generating Station was installed in 1930's and the Crown land is immediately south of the Generating Station. Since the Dam was installed, BC Hydro believed that it owned all the surrounding land and for the past 25+ years, the general public have used the BC Hydro managed recreation site. It's current location provides excellent access for anglers and picnickers.

### 2.3 Seasonal Expectations of Use

When will the Project require use of the land? Include information on key works during construction phases as well as operations phase. Please reference reduced risk fish windows as required by DFO:

Project Phase (Construction / Operations)	Brief Description of Activity / Works	Season
Operational	Public use of the picnic area will be year round with the entrance road vehicle gate unlocked from 8:00 am until sunset.	The majority of the public use takes place between the May long weekend to the first week in September. Non-picnic recreational summer use tends to be linked to fishing season.
Operational	Industrial Use	Site will be operational through all season.

### 3.0 Infrastructure and Improvements

#### 3.1 New Facilities and Infrastructure

Detail any new facilities, infrastructure or processes proposed and any ancillary uses. Provide details of planned construction methods and materials, and construction scheduling.

Facility/Infrastructure/Process	Construction Schedule
<p>PUMA - Overflow gravel parking lot capable of accommodating approximately 18 vehicles will be established in an area that was cleared and leveled for project construction use.</p> <p>All other amenities remain but a number of those will be replaced with new products. The two pit toilets and their holding tanks will be replaced with new and improved pit toilets. Six picnic tables will be replaced with new ones, two of which will be wheel chair accessible. The existing concrete picnic table pads will be replaced in the same location but will be 12' x 12' to accommodate the new tables. An additional garbage and recycle bin will be installed and an existing one located near the DFO boat launch will be relocated near the DFO boat launch entrance gate. A new water line will be installed from the generating station to the PUMA site and connected to the existing underground water lines. The four in ground water taps will be replaced with new equipment. Water will continue to be used for pit toilet and other PUMA maintenance requirements. The water taps will be locked and are not available for public use. An original 1 meter high fence adjacent to the river side of the picnic area will be repaired as required and new signage will replace all the old signage that is currently in place.</p>	<p>Planned opening is May 2019</p>
<p>Industrial – The area immediately adjacent to the powerhouse has been modified with the installation of an Mechanically Stabilized Earth wall (“MSE”) extending approximately 30 meters along the river bank. This installation would be <b>on the BCH/Crown property line</b>. The remaining industrial use area will be graded with new gravel and will serve as the access point for BC Hydro to the east side access into the Powerhouse. A Diesel generating building was installed on the Crown land which is critical to Powerhouse operation. It provides emergency back up power for the Ruskin Powerhouse. The industrial area could be used at any time by BC Hydro but there will be no public access past the gate and fencing.</p>	

#### 3.2 Access

Identify existing and proposed roads used for access and their use by season. Include any proposed connections to public or Forest Service Roads; traffic information including volume of traffic during construction/operation and phase or season that the traffic is expected:

Access to the PUMA site remains in its current location off Hayward Street, including the vehicle entrance gate. Access to the Industrial area also remains in its current location which is off Hayward Street, through the PUMA site. The industrial area is separated from the PUMA site with fencing and large industrial gates.

Roadway / Proposed Connection	Existing / Proposed	Existing Road Classification	Road Permittee Information and Road Use Agreements	Traffic Volume		Mitigation of Traffic Effects
				Construction Phase	Operations Phase	
Hayward Street	Existing	Currently privately owned but will be transferred to the DOM. Used by the Public.	N/A	N/A	N/A	

### 3.3 Utility Requirements and Sources

Describe utility requirements and sources; include agreements in place or underway allowing access to utilities:

There are no utilities at the PUMA site.

The industrial site contains a diesel generator, which supplies back-up power for the Ruskin Powerhouse.

### 3.4 Water Supply

Identify water requirements for construction and operation phases (e.g. surface water and/or groundwater), including sources, location, volume and a general description of infrastructure planned to meet water supply requirements, include any agreements outside of Water Act Authorizations identified above (Section I, Authorizations, Permits or Approvals), such as Municipal water supply.

Project Phase (Construction / Operations)	Water Requirement (e.g. surface water or ground water etc.)	Source / Location	Volume	Infrastructure Description	Agreements
Operation	A new waterline will connect the existing four in ground water taps to the source of water that originates from the Ruskin Powerhouse. This water is	Ruskin Powerhouse			BC Hydro holds a diversion water licence 117533

	for PUMA maintenance, not for domestic use. The public will not have access to the water taps.				
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### 3.5 Waste Collection Treatment and Disposal

Identify water requirements for construction and operation phases (e.g. surface water and/or groundwater), including:

Project Phase (Construction / Operations)	Water Requirement (e.g. surface water or ground water etc.)	Source / Location	Volume	Infrastructure Description	Agreements

## 4.0 Environmental

Describe any significant impacts and proposed mitigation for the following environmental classes:

### 4.1 Land Impacts

#### 4.1.1 Vegetation Removal

Is any timber removal required?

Yes: ☐ No: ☒ Non-planned, but a danger tree assessment will be done throughout the PUMA & Industrial site and identified trees will be addressed.

Are any areas of vegetation to be cleared, outside of timber removal?

Yes: ☐ No: ☒

#### 4.1.2 Soil Disturbance

Will there be any areas of soil disturbance, including clearing, grubbing, excavation and levelling?

Yes: ☒ No: ☐

Removal Type	Potential Effects	Proposed Mitigation
PUMA - Levelling of the overflow parking area with road gravel will take place. The pathway running the full length of the picnic areas will be topped up. Both ends of the self-rescue	Potential runoff from site  Potential contamination from oil filled equipment.	The area is quite level and significant runoff is not anticipated. Runoff will be directed to vegetated areas to ensure none enters the Stave River. Environmental monitoring will take place when working in close proximity to the river for the foot bridge abutment work.

bridge will have some river rock, that has washed away during the past five years, replaced. The picnic area grassy area will be restored.		All equipment shall be clean and free of excess grease and debris. All equipment will be inspected for leaks prior to working on the site. Spill response procedures will be in place should an incident occur.
Industrial Area – Levelling of the area and placement of gravel	-	-

Is the area to be excavated a Brownfield site or has the potential to be contaminated?

Yes: ☒ No: ☐

Soil relocation agreements or other certifications may be required. BC Contaminated Site Regulation

The Industrial area and a portion of the public use area have seen industrial use as part of the Ruskin Upgrade Project and there is a low potential for some minor contamination by metals or hydrocarbons. A thorough inspection and soil sampling will be completed to characterize the area once the Contractor has demobilized from the site. If soil removal is required, a relocation agreement will be filed if required.

Is there potential for disturbance of archaeological, paleontological fossils or historical artifacts?

Yes: ☒ No: ☐

Additional research and plans may be required. Heritage Conservation Act.

There are known archaeological sites in the Ruskin Project area. The excavation work planned for the crown land is not significant and will occur in areas that have been previously disturbed. In addition to BC Hydro's chance find procedures, an archaeologist will review the site prior to any disturbance and archaeological monitoring will be in place during the excavations.

#### 4.1.3 Riparian Encroachment

Will any works be completed within or adjacent to the riparian zone of any water body?

Yes: ☒ No: ☐

Identify all works that may affect the Riparian zone, the impacts, and proposed mitigations:

Work Type	Potential Effects	Proposed Mitigation
PUMA – This area is adjacent to or within the riparian	No significant potential effects are anticipated and no	Environmental monitoring will take place when working in close proximity to the river for the foot bridge abutment work.

<p>area. The riparian area adjacent to the overflow parking area will not be affected. The grass covered picnic area extends to the top of bank of the river and is within the riparian area. It will be maintained as a landscaped lawn through its operation. The self-rescue bridge crosses a spawning channel (created by DFO) of the lower stave river and work is required to repair the trail approaches.</p>	<p>riparian vegetation removal is required. All work required for the foot bridge will be completed from well above the normal water level.</p>	<p>All equipment shall be clean and free of excess grease and debris. All equipment shall be inspected for leaks prior to working on the site. Spill response procedures will be in place should an incident occur.</p>
<p>Industrial Area – The industrial use portion of the land adjacent to the powerhouse is within the riparian area. There is currently no vegetation in the area so there will be no further vegetation impacts.</p>	<p>There is a potential for contamination for the industrial use area.</p>	<p>BC Hydro's oil and fuel handling procedures will be followed to minimize the potential for spills or contamination. If any spills occur, the affected area will be cleaned and all contaminated materials will be removed.</p>

#### 4.1.4 Pesticides and Herbicides

Will there be any use of pesticides or herbicides during construction, operations and/or maintenance?

Yes: ☐ No: ☒

#### 4.1.5 Visual Impacts

Will there be any adverse effects of the projects and any potential adverse effects on sight lines to the project area from surrounding areas likely to be used for scenic viewing by residents or other users?

Yes: ☐ No: ☒

#### 4.1.6 Archaeological Sites

Are there any known or high potential (Arch Procedure) archaeological sites within the project area?

Yes: ☒ No: ☐

Identify the sites, any potential impact on them, and any mitigations:

Archaeological Site	Impacts	Proposed Mitigation/Management Plans
The area is known for archaeological potential sites.	There is potential to encounter archaeological artifacts.	All excavation work will require the presence of an on-site archaeological monitor. Chance find stop work procedures will also be in place for construction.

Have you conducted an AIA or engaged an archaeologist to assist with your investigations?

Yes: ☒ No: ☐

Please include information or reports generated:

There are known archaeological sites in the Ruskin Project area. The excavation work planned for the crown land is not significant and will occur in areas that have been previously disturbed. In addition to BC Hydro's chance find procedures, an archaeologist will review the site prior to any disturbance and archaeological monitoring will be in place during the excavations.

#### 4.1.7 Construction Methods and Materials

Identify the types of construction materials, the methods used, their impacts, and any mitigation:

Construction Material / Method	Potential effects	Mitigations
PUMA - Excavators will be used to remove and install the two pit toilets and to dig a trench that will hold	No significant potential effects are anticipated with this work.	Environmental monitoring will take place when working in close proximity to the river for the foot bridge abutment work.



the new waterline		
PUMA - Weed eaters will be used to restore the grassy picnic areas.	No effects anticipated.	No mitigation
PUMA - Concrete trucks will deliver concrete to 6 new 12' x 12' concrete pads	No effects anticipated.	No mitigation
PUMA - Fences will be repaired with hand tools.	No effects anticipated.	No mitigation
PUMA - professional tree removal staff and bucket trucks will remove Danger trees.	Improve public safety will result from this activity.	No mitigation
PUMA - A crane truck will deliver and install the concrete pit toilets and their holding tanks	No effects anticipated.	No mitigation
PUMA - At this time a decision to repave the parking lot has not been made. However, if it is to be repaved, than all equipment associated with that will be utilized.	No effects anticipated	No mitigation
Industrial – Placement of clean gravel fill.	No effects anticipated.	No Mitigation

## 4.2 Atmospheric Impacts

### 4.2.1 Sound, Odor, Gas or Fuel Emissions

Will the project construction or operation cause any of the following to disturb wildlife or nearby residents:

Sound? Yes: ☐ No: ☒  
 Odor? Yes: ☐ No: ☒  
 Gas? Yes: ☐ No: ☒  
 Fuel Emissions? Yes: ☐ No: ☒

### 4.3 Water or Land Covered by Water Impacts

#### 4.3.1 Drainage Effects

Will the project result in changes to land drainage?

Yes: ☐ No: ☒

#### 4.3.2 Public Access

Will the project result in changes to public access?

Yes: ☐ No: ☒

#### 4.3.3 Flood Potential

Will the project result in a potential for flooding?

Yes: ☐ No: ☒

### 4.4 Fish and Wildlife Habitat Impacts

#### 4.4.1 Disturbance to Wildlife and Wildlife Habitat

Will the project result in adverse effects to wildlife or wildlife habitat?

Yes: ☐ No: ☒

Will the project (construction or operations phase) occur in and around streams, lakes, estuarine or marine environments?

Yes: ☒ No: ☐

Describe the fish habitat on or near the project site, include potential impacts of the Project (e.g. stream crossings, water diversions, etc), including seasonal considerations, and plans to manage/mitigate effects.

Project Phase and Environmental Setting	Potential Effects	Proposed Mitigations / Management
The land is immediately adjacent to the lower Stave River and its entire length is adjacent to a sensitive spawning channel.	Significant negative effects to the fish habitat are not anticipated through the development or operation periods.	<p>Environmental monitoring will take place when working in close proximity to the river during the construction phase.</p> <p>All equipment shall clean and free of excess grease and debris. All equipment shall be inspected for leaks prior to working on the site. Spill response procedures will be in place should an incident occur.</p>

Is the project (construction or operations phase) likely to increase erosion or sedimentation?

Yes: ☐ No: ☒

Will the project (construction or operations phase) require water diversion?

Yes: ☐ No: ☒

Will the project threaten or endanger species at risk in the area?

Yes: ☐ No: ☒

## 5.0 Socio-Community

### 5.1 Land Use

Describe the current community setting on or near the project area, including the location of non-aboriginal and aboriginal communities or known use areas:

The property is located in within the District of Mission, in a rural neighbourhood near the western boundary of the municipality. There are 10 residences within 500 metres of the property, the majority of which are across the Stave River. Mission's industrial area is located approximately two kilometres from the property.

The District of Mission supports a population of approximately 38,000 residents. Located along the north shore of the Fraser River, its largest employment sectors are business services, retail trade and construction. Major employers are the local school district, Mission Memorial Hospital and Corrections Canada. The municipality is accessed via Highway 7 (Lougheed Highway) and is a 15-minute drive from the Trans-Canada Highway (Highway 1).

The Kwantlen First Nation has two Indian Reserves, which are Langley Indian Reserve 4, which is .80 kilometers from the Project Area, and Langley Indian Reserve 4, which is 2.13 kilometers from the Project Area.

The Crown has issued the following overlapping tenures:

- Statement of Boundary Intent for Hui'qumi'num
- Statement of Boundary Intent for Sto:lo Xwexwilmexw

#### 5.1.1 Land Management Plans and Regional Growth Strategies

Are there any land and resource management plans, coastal plans, provincial, regional growth strategies or local government plans with zoning, or management policies or use

restrictions in place that could limit or preclude your proposed use of the land? *(Please refer to the Union of BC Municipalities (UBCM) and check the websites of the municipality, regional district or other organization with jurisdiction including your project area.)*

Yes: ☐ No: ☒

## 5.2 Socio-Community Conditions

### 5.2.1 Adjacent Users or Communities

Is the project likely to restrict public access, or the ability, or the ability of adjacent land owners or tenure holder to access their property or tenures?

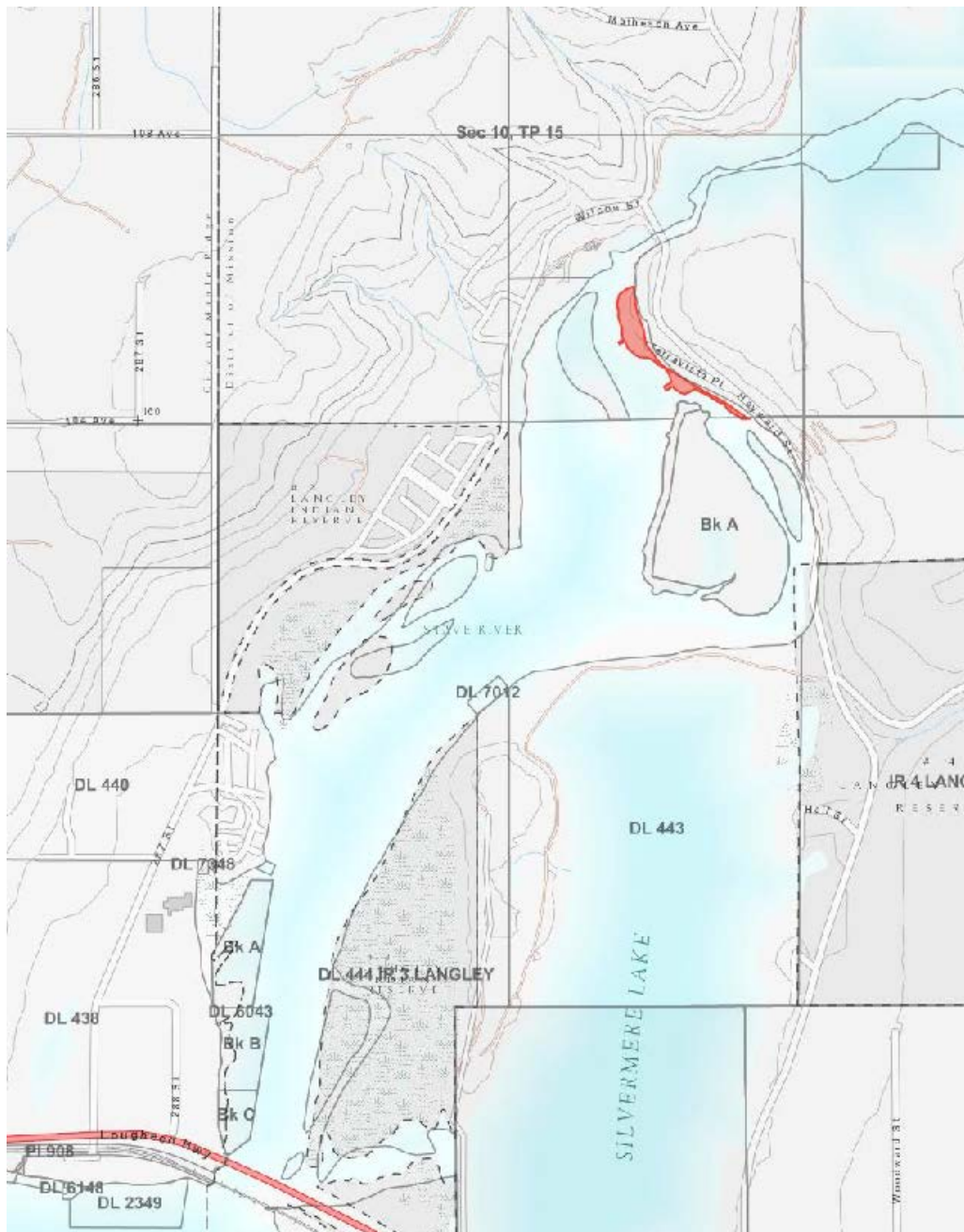
Yes: ☐ No: ☒ Access for the public has always been limited and controlled in the application area for safety purposes.

### 5.2.2 Existing Services

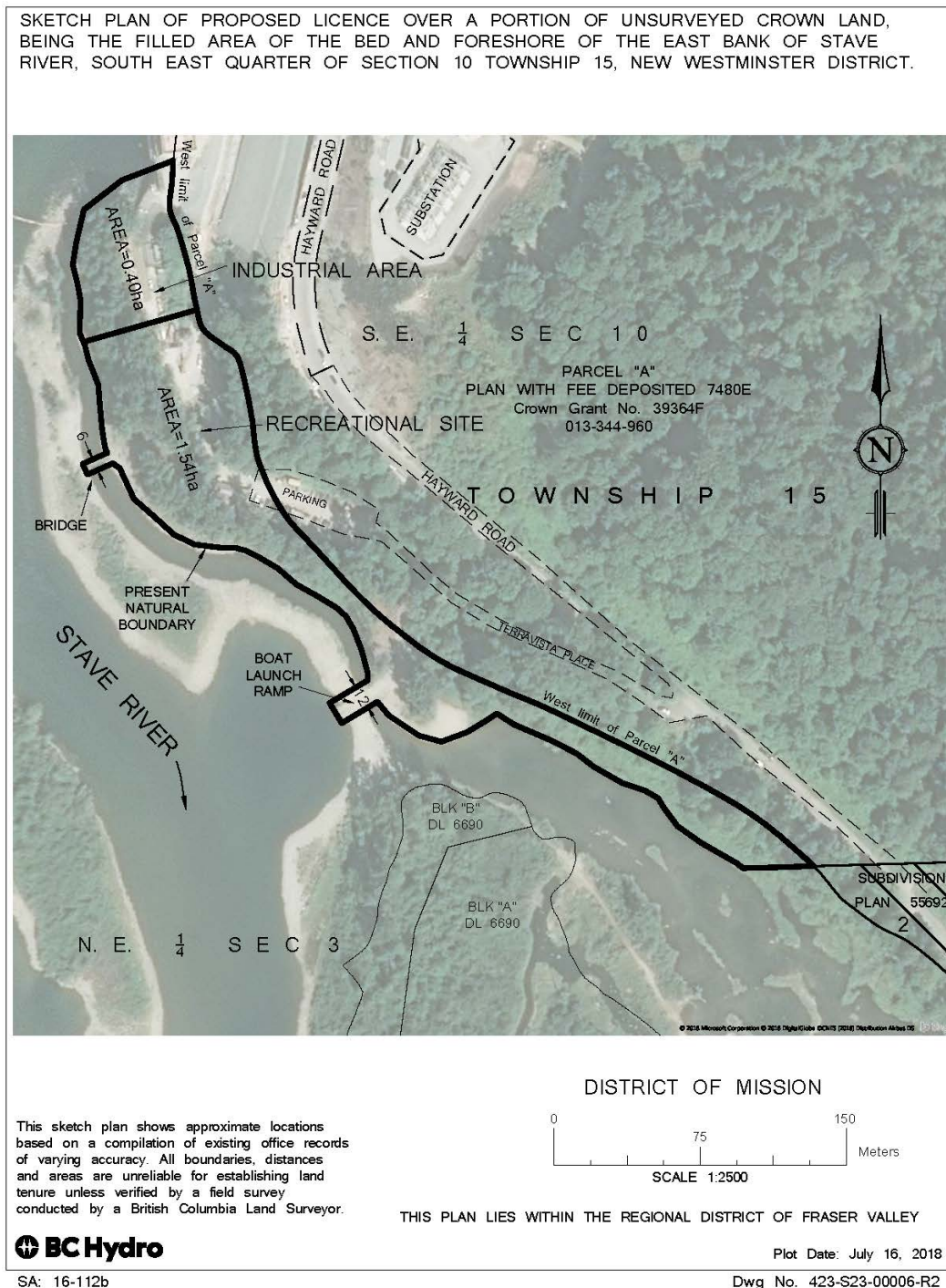
Provide a description any increased demand on fire protection and other health facilities and emergency services arising from your Project, including proposed management or mitigation measures:

The PUMA will be managed by Hayward PUMA Warden who has an operations manual that describes emergency response to various scenarios throughout the PUMA area.

## Appendix A – Location Plan



## Appendix B – Site Plan

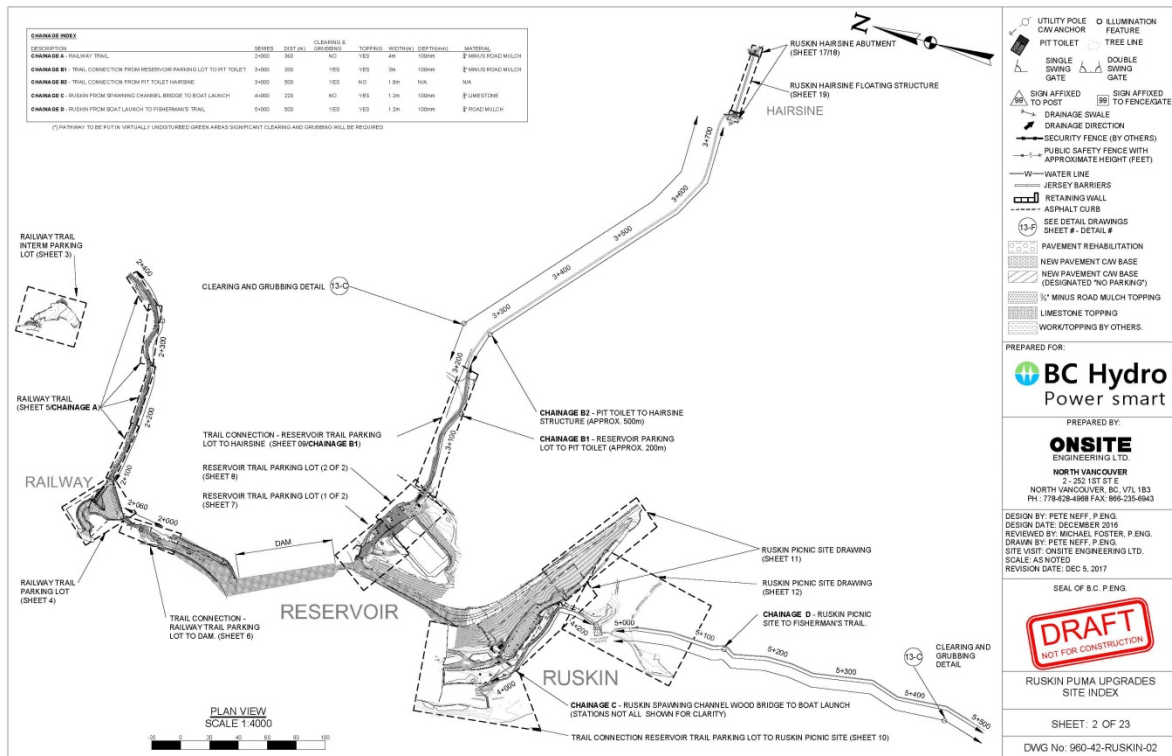


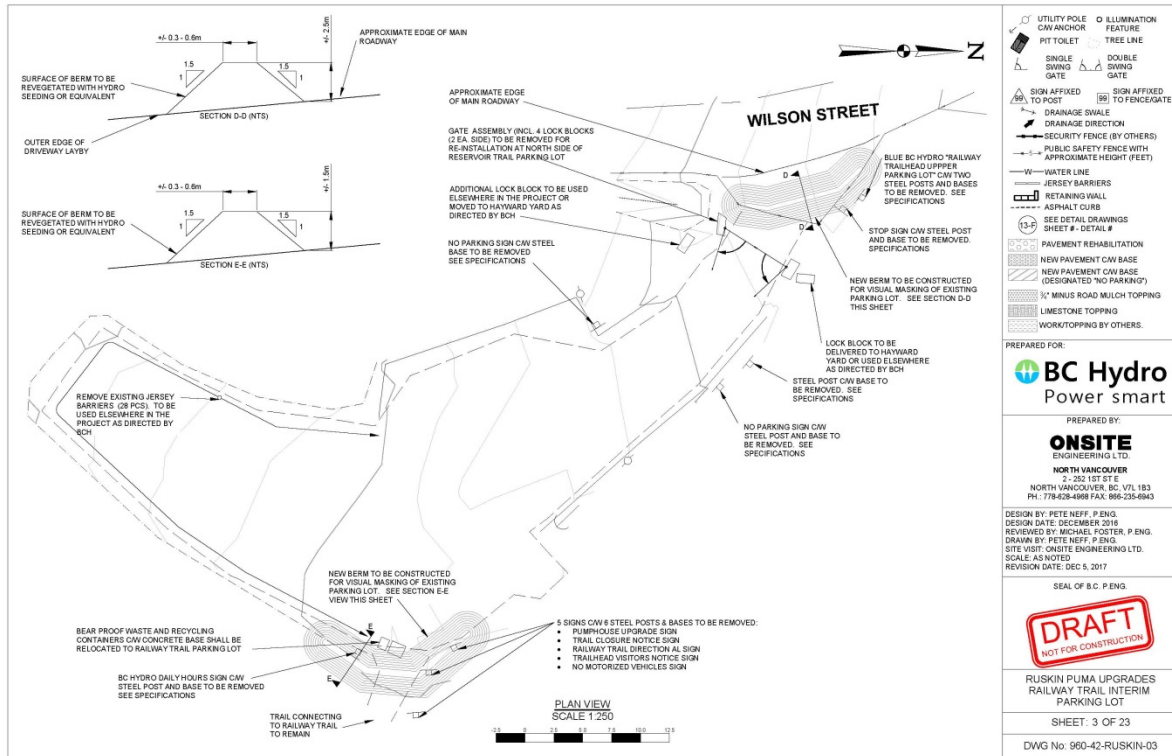


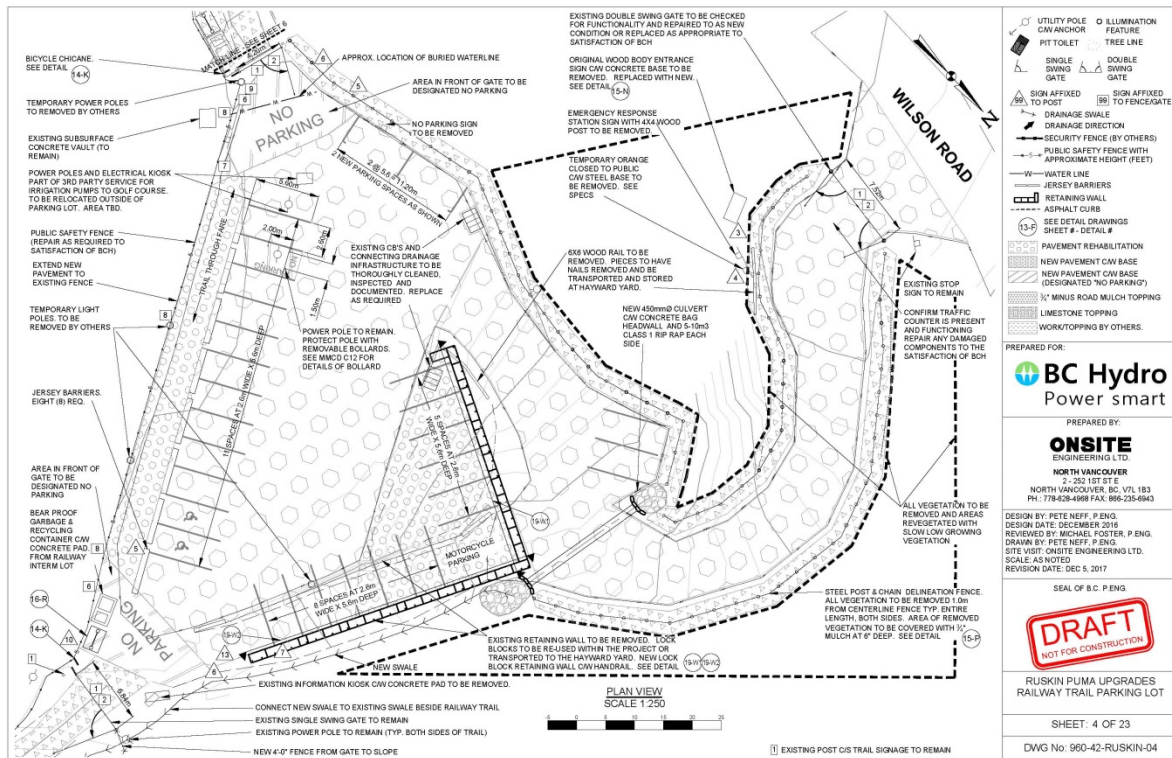


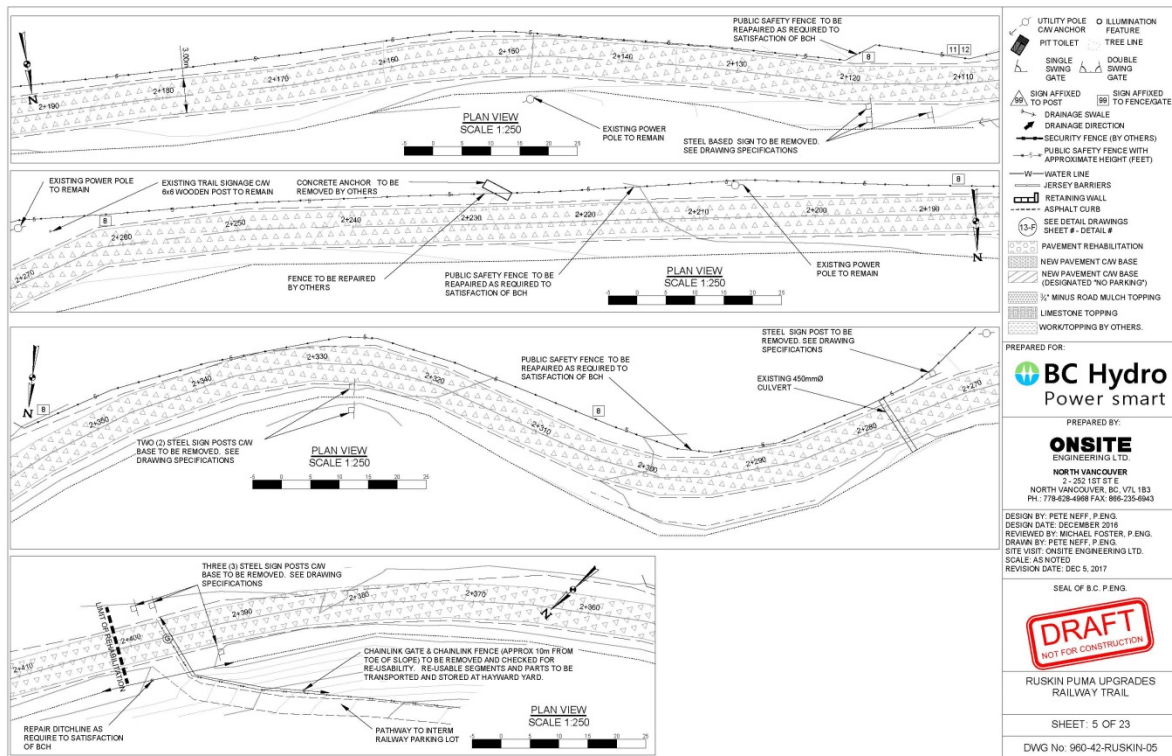
<p><b>GENERAL NOTES</b></p> <ol style="list-style-type: none"> <li>ALL DESIGN, CONSTRUCTION EFFORTS AND PLACEMENT OF INFRASTRUCTURE TO CONFORM TO BC HYDRO USER REQUIREMENTS</li> <li>ALL WORK TO CONFORM AND ADHERE TO WORKSAFE BC REGULATIONS</li> <li>ALL DIMENSION ARE IN METERS, BUT SOME REFERENCES HAVE USED IMPERIAL DESIGNATION</li> <li>ALL CONSTRUCTION IS TO BE COMPLETED TO THE SATISFACTION OF BC H.</li> <li>THIS DRAWING SET IS TO BE USED IN CONJUNCTION WITH MMCO VOLUME II PLATINUM EDITION FOR CONSTRUCTION DETAILS</li> <li>ALL DRAWING DISCREPANCIES ARE TO BE ARE TO BE REPORTED TO THE B.O.H.</li> <li>ALL FIELD CHANGES TO CHANGES TO BE APPROVED BY BCH.</li> <li>NOTIFY BC HYDRO PRIOR TO CONSTRUCTION COMMENCEMENT AND COORDINATE ALL REQUIRED INSPECTIONS SUPERVISION AND TESTING</li> <li>DEPENDS ON TIME OF CONSTRUCTION ACCESS TO CROSS THE DAM MAY NOT BE AVAILABLE</li> <li>ALL SURPLUS MATERIAL OR INFRASTRUCTURE SHALL BE DISPOSED OF BY CONTRACTOR IN AN APPROVED MANNER AND ACCORDING TO ALL APPLICABLE REGULATIONS</li> </ol> <p><b>RE-USE OF EXISTING INFRASTRUCTURE</b></p> <p>THE PROJECT WILL ENTAIL REMOVAL OF INFRASTRUCTURE AND PARK ASSETS THAT HAVE SIGNIFICANT LIFE REMAINING. ALL EFFORTS SHOULD BE TAKEN TO RE-USE INFRASTRUCTURE ELSEWHERE IN THE PROJECT WHERE POSSIBLE. NEW INFRASTRUCTURE MAY NEED TO BE PURCHASED WHERE EXISTING INFRASTRUCTURE IS INADEQUATE. ALL REMAINING INFRASTRUCTURE WITH REMAINING LIFE SHOULD BE DELIVERED TO THE HAYWARD LOT FOR STORAGE IF DIRECTED BY BCHA. NOTES REGARDING THIS TYPE OF INFRASTRUCTURE IS NOTED BELOW.</p> <ol style="list-style-type: none"> <li>JERSEY BARRIERS (FROM RAILWAY TRAIL PARKING LOT)</li> <li>LOCK BUCKS (FROM RAILWAY TRAIL PARKING LOT)</li> <li>WOOD GUARDRAILS (FROM RAILWAY TRAIL PARKING LOT)</li> <li>FENCING - FENCING TO BE REMOVED IS TO BE SET ASIDE AND CHECKED FOR RE-USABILITY. FENCING THAT CAN BE RE-USED WILL BE USED WHERE APPLICABLE IN OTHER PARTS OF THE PROJECT. ALL HEIGHTS OF EXISTING PUBLIC SAFETY FENCE ARE DEEMED TO BE SIMILAR IN NATURE OF CONSTRUCTION AND CAN BE CUT TO SUIT NEW PURPOSES</li> <li>STEEL POSTS - WHERE STEEL POST SIGNS ARE DESIGNATED "TO BE REMOVED", THEY WILL BE CHECKED FOR RE-USABILITY. POSTS IN GOOD CONDITION WILL BE RE-USED AS NOTED IN THE DRAWINGS, OR WITH APPROVAL FROM THE ENGINEER. EXTRA POSTS SHALL BE DELIVERED TO THE HAYWARD YARD. IF THE POSTS ARE DAMAGED, THEY ARE TO BE REMOVED AND DISPOSED OF. ALL POST HOLES SHALL BE FILLED AND GRADE RE-ESTABLISHED</li> </ol> <p><b>ASPHALT</b></p> <ol style="list-style-type: none"> <li>NEW ASPHALT TO BE UPPER COURSE/AS PER MMCO STANDARDS</li> <li>ASPHALT WORK TO INCLUDE STALL AND NO PARKING PAINTING AS NOTED</li> <li>APPROVAL OF PROPOSED PARKING LOT LINE PAINTING TO BE APPROVED BY BCH</li> </ol> <p><b>STEEL</b></p> <ol style="list-style-type: none"> <li>ALL STEEL TO BE 350W STEEL</li> <li>ALL STEEL TO HOT DIP GALVANIZED</li> <li>ALL WELDING SHALL BE 6mm FILLET WELDS U.N.O.</li> <li>COMPLETE ALL WELDS IN ACCORDANCE WITH CSA W59.</li> <li>FABRICATOR TO BE CERTIFIED FOR DIVISION 1 OR 2 IN ACCORDANCE WITH CSA W47.1</li> <li>FIELD WELDING BY COMPANY CERTIFIED TO CSA W47.1 DIVISION 1.2 OR 3</li> </ol> <p><b>CONCRETE</b></p> <ol style="list-style-type: none"> <li>THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH CONCRETE CYLINDER TEST REPORTS AND REBAR SPEC SHEETS FOR ALL REINFORCED CONCRETE. TAKE THREE TEST CYLINDERS FOR EVERY 75 CU. METERS OR LESS OF CONCRETE POURED. MINIMUM ONE SET OF THREE CYLINDERS FOR EACH POUR.</li> <li>ALL CONCRETE SHALL BE CONSOLIDATED WITH THE USE OF INTERNAL, MECHANICAL VIBRATORS.</li> <li>CONCRETE COVER REQUIREMENTS: 75mm (3") CAST AGAINST OR PERMANENTLY EXPOSED TO SOIL. 50mm (2") EXPOSED TO WEATHER OR SOIL.</li> <li>CONCRETE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 20mm (3/4") DIAMETER</li> <li>SUMP SHALL BE LIMITED TO 50mm</li> <li>ALL CEMENT SHALL BE TYPE 10. MINIMUM CEMENT CONTENT TO BE 335 kg/m<sup>3</sup>.</li> <li>MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS = 32MPa</li> <li>CONCRETE SHALL BE ENTRAINED WITH AIR CONTENT OF 6% +/- 1%</li> <li>REINFORCING BARS SHALL BE 450 MPa GRADE NEW DEFORMED BARS, FREE OF DIRT, OIL OR LOOSE SCALE. REINFORCING SHALL BE TIED SECURELY PRIOR TO PLACING CONCRETE.</li> </ol>	<p><b>WOOD</b></p> <ol style="list-style-type: none"> <li>ALL WOOD TO BE FIR AND TO BE TREATED AS PER "MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCES OPERATIONS (FARM) - PRESERVE TREATED WOOD STANDARD FOR TIMBER DECK BRIDGE COMPONENTS" OR APPROVED EQUAL TO THE SATISFACTION OF BCH.</li> </ol> <p><b>UTILITIES/INFRASTRUCTURE</b></p> <p><b>WATER</b></p> <ol style="list-style-type: none"> <li>ALL WATER SERVING TO ADHERE TO BC BUILDINGS AND PLUMBING CODE.</li> </ol> <p><b>SANITARY</b></p> <ol style="list-style-type: none"> <li>PIT TOILET VAULTS THAT ARE TO BE DISPOSED SHALL BE DONE SO IN ACCORDANCE WITH APPLICABLE GOVERNMENT HEALTH REGULATIONS</li> <li>THE SEPTIC FIELD IN THE RUSKIN PICNIC AREA IS OUT OF SCOPE OF THIS PROJECT</li> </ol> <p><b>STORM</b></p> <ol style="list-style-type: none"> <li>ALL EXISTING STORM INFRASTRUCTURE SHOULD BE CLEANED AND THOROUGHLY CHECKED FOR FUNCTIONALITY. SHOULD EXISTING STORM INFRASTRUCTURE BE COMPROMISED, ALERT ENGINEER IMMEDIATELY.</li> <li>SWALES TO BE CONSTRUCTED WITH 2:1 SLOPES WITH DEPTH AS IS PRACTICAL FOR THE LOCATION</li> </ol> <p><b>EARTHWORKS &amp; RETAINING WALLS</b></p> <ol style="list-style-type: none"> <li>THE TRAIL CONNECTION FROM RESERVOIR PARKING LOT TO RUSKIN PICNIC SITE/CHANGING E/DRAWING 10) WILL NEED TO BE PUT IN PLACE, COMPLETE WITH DESIGNATED BASE STRUCTURE, PRIOR TO PLACEMENT OF LIMESTONE.</li> </ol> <p><b>CLEARING AND GRUBBING, TOPPING, LANDSCAPING</b></p> <p>THE TERMS "CLEARING AND GRUBBING", "TOPPING" &amp; "LANDSCAPING" HAVE DISTINCT MEANINGS WITH RESPECT TO SCOPE REQUIRED THROUGHOUT THE PROJECT. THEY ARE DESCRIBED BELOW:</p> <ol style="list-style-type: none"> <li><b>CLEARING AND GRUBBING</b> THIS TASK ENTAILS REMOVING OVERGROWTH. A DETAIL WITH MORE DESCRIPTION (13-C) OF PARAMETERS OF WORK HAS BEEN PROVIDED. THE CHANGES THAT REQUIRE CLEARING AND GRUBBING ARE NOTED IN THE CHAINAGE INDEX CHART. ADDITIONAL CLEARING IS REQUIRED ADJACENT TO FENCING - SEE NOTES IN "FENCING" BELOW.</li> <li><b>TOPPING</b> SECTIONS OF EXISTING TRAIL WITHIN THE PROJECT REQUIRE NEW TOPPING. TOPPING ARE THE ADDITION OF APPROPRIATE TRAIL SURFACE MATERIAL IS NOTED BELOW. THEY ARE TO BE PLACED EVENLY OVER THE AREA SHOWN AND AT THE DEPTH AND WIDTH DENOTED. TOPPING WORK TO OCCUR AFTER CLEARING AND GRUBBING WORK.</li> <li><b>LANDSCAPING</b> THE CHANGES THAT REQUIRE TOPPING ARE NOTED IN THE CHAINAGE INDEX CHART. TRAIL TOPPING - EXISTING GROUND TO BE USED SHALL BE CLEARED OF ALL BRANCHES, TREES AND TREES.</li> </ol> <p><b>PARK ASSETS</b></p> <p><b>ENTRANCE SIGNS/INFORMATION KIOSKS</b></p> <ol style="list-style-type: none"> <li>AN ENTRANCE SIGN DETAIL HAS BEEN PROVIDED.</li> <li>BC HYDRO WILL PROVIDE ALL SIGNS TO BE INSTALLED ON INFORMATION KIOSKS</li> </ol> <p><b>ACCESS GATES</b></p> <ol style="list-style-type: none"> <li>GATES SHALL BE PAINTED WITH COMMERCIAL GRADE, WEATHER RESISTANT YELLOW PAINT DESIGNATED FOR METAL</li> </ol> <p><b>FENCING</b></p> <ol style="list-style-type: none"> <li>ALL PUBLIC SAFETY FENCING TO REMAIN THAT IS LOCATED WITHIN THE PROJECT AREA IS TO BE REPAIRED TO AS NEW CONDITION.</li> <li>OVERGROWTH &amp; GROUND COVER MUST BE REMOVED IN AREAS ADJACENT TO FENCING (APPROX. 1m EACH SIDE) AND PARKING LOTS AS IDENTIFIED ON THE DRAWINGS AND DIRECTED BY BCH.</li> </ol> <p><b>METAL SIGN</b></p> <ol style="list-style-type: none"> <li>BCH TO PROVIDE METAL SIGNS</li> <li>SIGNS ON FENCE TO BE WILL BE SECURELY MOUNTED ON INSIDE OF FENCE WITH TAMPERPROOF FASTENING AT ALL FOUR CORNERS. SIGNS TO BE PLACED AT APPROX. 1/4th OF FENCE HEIGHT.</li> <li>SIGNS ON POSTS WILL BE SECURELY MOUNTED WITH TAMPERPROOF AT 6' HEIGHT. ALL SIGN HEIGHT TO BE APPROVED BY BCHA.</li> </ol> <p><b>GARBAGE/RECYCLING</b></p> <ol style="list-style-type: none"> <li>ALL NEW GARBAGE/RECYCLING CONTAINERS TO BE HAUL-AID HD-A-BAG I COMBO WASTE &amp; RECYCLE CONTAINER (500)</li> </ol>	<p><b>SHEET INDEX</b></p> <p>COVER SHEET</p> <p>SHEET 1 SITE INDEX</p> <p>SHEET 2 SPECIFICATIONS</p> <p>SHEET 3 RAILWAY TRAIL INTERIM PARKING LOT</p> <p>SHEET 4 RAILWAY TRAIL PARKING LOT</p> <p>SHEET 5 RAILWAY TRAIL</p> <p>SHEET 6 TRAIL CONNECTION - RAILWAY TRAIL TO DAM</p> <p>SHEET 7 RESERVOIR TRAIL PARKING LOT (1 OF 2)</p> <p>SHEET 8 RESERVOIR TRAIL PARKING LOT (2 OF 2)</p> <p>SHEET 9 TRAIL CONNECTION - RESERVOIR TRAIL PARKING LOT TO HAIRLINE</p> <p>SHEET 10 TRAIL CONNECTION - RESERVOIR TRAIL PARKING LOT TO RUSKIN</p> <p>SHEET 11 RUSKIN - PICNIC SITE AND MAIN PARKING LOT</p> <p>SHEET 12 RUSKIN - BOAT LAUNCH &amp; BEACH AREA</p> <p>SHEET 13 ROADS, PATHWAYS AND UTILITIES</p> <p>SHEET 14 GATES AND FENCING</p> <p>SHEET 15 ENTRANCE SIGN</p> <p>SHEET 16 INFORMATION KIOSKS</p> <p>SHEET 17 HAIRLINE INLET - ABUTMENT (PLAN AND SECTIONS)</p> <p>SHEET 18 HAIRLINE INLET - ABUTMENT DETAILS</p> <p>SHEET 19 RETAINING WALL</p> <p>SHEET 20 SIGNAGE</p> <p>SHEET 21 SIGNAGE</p> <p>SHEET 22 SIGNAGE</p> <p>SHEET 23 HAIRLINE INLET - FLOATING WALKWAY - SPECIFICATIONS</p> <p>APPENDIX A PIT TOILETS</p> <p><b>DETAIL INDEX</b></p> <p>SHEET 13 DETAIL A</p> <p>SHEET 13 DETAIL B</p> <p>SHEET 13 DETAIL C</p> <p>SHEET 13 DETAIL D</p> <p>SHEET 13 DETAIL E</p> <p>SHEET 13 DETAIL F</p> <p>SHEET 13 DETAIL G</p> <p>SHEET 13 DETAIL H</p> <p>SHEET 13 DETAIL I</p> <p>SHEET 13 DETAIL J</p> <p>SHEET 13 DETAIL K</p> <p>SHEET 13 DETAIL L</p> <p>SHEET 13 DETAIL M</p> <p>SHEET 13 DETAIL N</p> <p>SHEET 13 DETAIL O</p> <p>SHEET 13 DETAIL P</p> <p>SHEET 13 DETAIL R</p> <p>SHEET 13 DETAIL S</p> <p>SHEET 13 DETAIL T</p> <p>SHEET 13 DETAIL U</p> <p>SHEET 13 DETAIL V</p> <p>SHEET 13 DETAIL W</p> <p>SHEET 13 DETAIL X</p> <p>SHEET 13 DETAIL Y</p> <p>SHEET 13 DETAIL Z</p> <p>SHEET 13 DETAIL AA</p> <p>SHEET 13 DETAIL AB</p> <p>SHEET 13 DETAIL AC</p> <p>SHEET 13 DETAIL AD</p> <p>SHEET 13 DETAIL AE</p> <p>SHEET 13 DETAIL AF</p> <p>SHEET 13 DETAIL AG</p> <p>SHEET 13 DETAIL AH</p> <p>SHEET 13 DETAIL AI</p> <p>SHEET 13 DETAIL AJ</p> <p>SHEET 13 DETAIL AK</p> <p>SHEET 13 DETAIL AL</p> <p>SHEET 13 DETAIL AM</p> <p>SHEET 13 DETAIL AN</p> <p>SHEET 13 DETAIL AO</p> <p>SHEET 13 DETAIL AP</p> <p>SHEET 13 DETAIL AQ</p> <p>SHEET 13 DETAIL AR</p> <p>SHEET 13 DETAIL AS</p> <p>SHEET 13 DETAIL AT</p> <p>SHEET 13 DETAIL AU</p> <p>SHEET 13 DETAIL AV</p> <p>SHEET 13 DETAIL AW</p> <p>SHEET 13 DETAIL AX</p> <p>SHEET 13 DETAIL AY</p> <p>SHEET 13 DETAIL AZ</p> <p>SHEET 13 DETAIL BA</p> <p>SHEET 13 DETAIL BB</p> <p>SHEET 13 DETAIL BC</p> <p>SHEET 13 DETAIL BD</p> <p>SHEET 13 DETAIL BE</p> <p>SHEET 13 DETAIL BF</p> <p>SHEET 13 DETAIL BG</p> <p>SHEET 13 DETAIL BH</p> <p>SHEET 13 DETAIL BI</p> <p>SHEET 13 DETAIL BJ</p> <p>SHEET 13 DETAIL BK</p> <p>SHEET 13 DETAIL BL</p> <p>SHEET 13 DETAIL BM</p> <p>SHEET 13 DETAIL BN</p> <p>SHEET 13 DETAIL BO</p> <p>SHEET 13 DETAIL BP</p> <p>SHEET 13 DETAIL BQ</p> <p>SHEET 13 DETAIL BR</p> <p>SHEET 13 DETAIL BS</p> <p>SHEET 13 DETAIL BT</p> <p>SHEET 13 DETAIL BU</p> <p>SHEET 13 DETAIL BV</p> <p>SHEET 13 DETAIL BW</p> <p>SHEET 13 DETAIL BX</p> <p>SHEET 13 DETAIL BY</p> <p>SHEET 13 DETAIL BZ</p> <p>SHEET 13 DETAIL CA</p> <p>SHEET 13 DETAIL CB</p> <p>SHEET 13 DETAIL CC</p> <p>SHEET 13 DETAIL CD</p> <p>SHEET 13 DETAIL CE</p> <p>SHEET 13 DETAIL CF</p> <p>SHEET 13 DETAIL CG</p> <p>SHEET 13 DETAIL CH</p> <p>SHEET 13 DETAIL CI</p> <p>SHEET 13 DETAIL CJ</p> <p>SHEET 13 DETAIL CK</p> <p>SHEET 13 DETAIL CL</p> <p>SHEET 13 DETAIL CM</p> <p>SHEET 13 DETAIL CN</p> <p>SHEET 13 DETAIL CO</p> <p>SHEET 13 DETAIL CP</p> <p>SHEET 13 DETAIL CQ</p> <p>SHEET 13 DETAIL CR</p> <p>SHEET 13 DETAIL CS</p> <p>SHEET 13 DETAIL CT</p> <p>SHEET 13 DETAIL CU</p> <p>SHEET 13 DETAIL CV</p> <p>SHEET 13 DETAIL CW</p> <p>SHEET 13 DETAIL CX</p> <p>SHEET 13 DETAIL CY</p> <p>SHEET 13 DETAIL CZ</p> <p>SHEET 13 DETAIL DA</p> <p>SHEET 13 DETAIL DB</p> <p>SHEET 13 DETAIL DC</p> <p>SHEET 13 DETAIL DD</p> <p>SHEET 13 DETAIL DE</p> <p>SHEET 13 DETAIL DF</p> <p>SHEET 13 DETAIL DG</p> <p>SHEET 13 DETAIL DH</p> <p>SHEET 13 DETAIL DI</p> <p>SHEET 13 DETAIL DJ</p> <p>SHEET 13 DETAIL DK</p> <p>SHEET 13 DETAIL DL</p> <p>SHEET 13 DETAIL DM</p> <p>SHEET 13 DETAIL DN</p> <p>SHEET 13 DETAIL DO</p> <p>SHEET 13 DETAIL DP</p> <p>SHEET 13 DETAIL DQ</p> <p>SHEET 13 DETAIL DR</p> <p>SHEET 13 DETAIL DS</p> <p>SHEET 13 DETAIL DT</p> <p>SHEET 13 DETAIL DU</p> <p>SHEET 13 DETAIL DV</p> <p>SHEET 13 DETAIL DW</p> <p>SHEET 13 DETAIL DX</p> <p>SHEET 13 DETAIL DY</p> <p>SHEET 13 DETAIL DZ</p> <p>SHEET 13 DETAIL EA</p> <p>SHEET 13 DETAIL EB</p> <p>SHEET 13 DETAIL EC</p> <p>SHEET 13 DETAIL ED</p> <p>SHEET 13 DETAIL EE</p> <p>SHEET 13 DETAIL EF</p> <p>SHEET 13 DETAIL EG</p> <p>SHEET 13 DETAIL EH</p> <p>SHEET 13 DETAIL EI</p> <p>SHEET 13 DETAIL EJ</p> <p>SHEET 13 DETAIL EK</p> <p>SHEET 13 DETAIL EL</p> <p>SHEET 13 DETAIL EM</p> <p>SHEET 13 DETAIL EN</p> <p>SHEET 13 DETAIL EO</p> <p>SHEET 13 DETAIL EP</p> <p>SHEET 13 DETAIL EQ</p> <p>SHEET 13 DETAIL ER</p> <p>SHEET 13 DETAIL ES</p> <p>SHEET 13 DETAIL ET</p> <p>SHEET 13 DETAIL EU</p> <p>SHEET 13 DETAIL EV</p> <p>SHEET 13 DETAIL EW</p> <p>SHEET 13 DETAIL EX</p> <p>SHEET 13 DETAIL EY</p> <p>SHEET 13 DETAIL EZ</p> <p>SHEET 13 DETAIL FA</p> <p>SHEET 13 DETAIL FB</p> <p>SHEET 13 DETAIL FC</p> <p>SHEET 13 DETAIL FD</p> <p>SHEET 13 DETAIL FE</p> <p>SHEET 13 DETAIL FF</p> <p>SHEET 13 DETAIL FG</p> <p>SHEET 13 DETAIL FH</p> <p>SHEET 13 DETAIL FI</p> <p>SHEET 13 DETAIL FJ</p> <p>SHEET 13 DETAIL FK</p> <p>SHEET 13 DETAIL FL</p> <p>SHEET 13 DETAIL FM</p> <p>SHEET 13 DETAIL FN</p> <p>SHEET 13 DETAIL FO</p> <p>SHEET 13 DETAIL FP</p> <p>SHEET 13 DETAIL FQ</p> <p>SHEET 13 DETAIL FR</p> <p>SHEET 13 DETAIL FS</p> <p>SHEET 13 DETAIL FT</p> <p>SHEET 13 DETAIL FU</p> <p>SHEET 13 DETAIL FV</p> <p>SHEET 13 DETAIL FW</p> <p>SHEET 13 DETAIL 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<p>SHEET 13 DETAIL HL</p> <p>SHEET 13 DETAIL HM</p> <p>SHEET 13 DETAIL HN</p> <p>SHEET 13 DETAIL HO</p> <p>SHEET 13 DETAIL HP</p> <p>SHEET 13 DETAIL HQ</p> <p>SHEET 13 DETAIL HR</p> <p>SHEET 13 DETAIL HS</p> <p>SHEET 13 DETAIL HT</p> <p>SHEET 13 DETAIL HU</p> <p>SHEET 13 DETAIL HV</p> <p>SHEET 13 DETAIL HW</p> <p>SHEET 13 DETAIL HX</p> <p>SHEET 13 DETAIL HY</p> <p>SHEET 13 DETAIL HZ</p> <p>SHEET 13 DETAIL IA</p> <p>SHEET 13 DETAIL IB</p> <p>SHEET 13 DETAIL IC</p> <p>SHEET 13 DETAIL ID</p> <p>SHEET 13 DETAIL IE</p> <p>SHEET 13 DETAIL IF</p> <p>SHEET 13 DETAIL IG</p> <p>SHEET 13 DETAIL IH</p> <p>SHEET 13 DETAIL II</p> <p>SHEET 13 DETAIL IJ</p> <p>SHEET 13 DETAIL IK</p> <p>SHEET 13 DETAIL IL</p> <p>SHEET 13 DETAIL IM</p> <p>SHEET 13 DETAIL IN</p> <p>SHEET 13 DETAIL IO</p> <p>SHEET 13 DETAIL IP</p> <p>SHEET 13 DETAIL IQ</p> <p>SHEET 13 DETAIL IR</p> <p>SHEET 13 DETAIL IS</p> <p>SHEET 13 DETAIL IT</p> <p>SHEET 13 DETAIL IU</p> <p>SHEET 13 DETAIL IV</p> <p>SHEET 13 DETAIL IW</p> <p>SHEET 13 DETAIL IX</p> <p>SHEET 13 DETAIL IY</p> <p>SHEET 13 DETAIL IZ</p> <p>SHEET 13 DETAIL JA</p> <p>SHEET 13 DETAIL JB</p> <p>SHEET 13 DETAIL JC</p> <p>SHEET 13 DETAIL JD</p> <p>SHEET 13 DETAIL JE</p> <p>SHEET 13 DETAIL JF</p> <p>SHEET 13 DETAIL JG</p> <p>SHEET 13 DETAIL JH</p> <p>SHEET 13 DETAIL JI</p> <p>SHEET 13 DETAIL JJ</p> <p>SHEET 13 DETAIL JK</p> <p>SHEET 13 DETAIL JL</p> <p>SHEET 13 DETAIL JM</p> <p>SHEET 13 DETAIL JN</p> <p>SHEET 13 DETAIL JO</p> <p>SHEET 13 DETAIL JP</p> <p>SHEET 13 DETAIL JQ</p> <p>SHEET 13 DETAIL JR</p> <p>SHEET 13 DETAIL JS</p> <p>SHEET 13 DETAIL JT</p> <p>SHEET 13 DETAIL JU</p> <p>SHEET 13 DETAIL JV</p> <p>SHEET 13 DETAIL JW</p> <p>SHEET 13 DETAIL JX</p> <p>SHEET 13 DETAIL JY</p> <p>SHEET 13 DETAIL JZ</p> <p>SHEET 13 DETAIL KA</p> <p>SHEET 13 DETAIL KB</p> <p>SHEET 13 DETAIL KC</p> <p>SHEET 13 DETAIL KD</p> <p>SHEET 13 DETAIL KE</p> <p>SHEET 13 DETAIL KF</p> <p>SHEET 13 DETAIL KG</p> <p>SHEET 13 DETAIL KH</p> <p>SHEET 13 DETAIL KI</p> <p>SHEET 13 DETAIL KJ</p> <p>SHEET 13 DETAIL KL</p> <p>SHEET 13 DETAIL KM</p> <p>SHEET 13 DETAIL KN</p> <p>SHEET 13 DETAIL KO</p> <p>SHEET 13 DETAIL KP</p> <p>SHEET 13 DETAIL KQ</p> <p>SHEET 13 DETAIL KR</p> <p>SHEET 13 DETAIL KS</p> <p>SHEET 13 DETAIL KT</p> <p>SHEET 13 DETAIL KU</p> <p>SHEET 13 DETAIL KV</p> <p>SHEET 13 DETAIL KW</p> <p>SHEET 13 DETAIL KX</p> <p>SHEET 13 DETAIL KY</p> <p>SHEET 13 DETAIL KZ</p> <p>SHEET 13 DETAIL LA</p> <p>SHEET 13 DETAIL LB</p> <p>SHEET 13 DETAIL LC</p> <p>SHEET 13 DETAIL LD</p> <p>SHEET 13 DETAIL LE</p> <p>SHEET 13 DETAIL LF</p> <p>SHEET 13 DETAIL LG</p> <p>SHEET 13 DETAIL LH</p> <p>SHEET 13 DETAIL LI</p> <p>SHEET 13 DETAIL LJ</p> <p>SHEET 13 DETAIL LK</p> <p>SHEET 13 DETAIL LL</p> <p>SHEET 13 DETAIL LM</p> <p>SHEET 13 DETAIL LN</p> <p>SHEET 13 DETAIL LO</p> <p>SHEET 13 DETAIL LP</p> <p>SHEET 13 DETAIL LQ</p> <p>SHEET 13 DETAIL LR</p> <p>SHEET 13 DETAIL LS</p> <p>SHEET 13 DETAIL LT</p> <p>SHEET 13 DETAIL LU</p> <p>SHEET 13 DETAIL LV</p> <p>SHEET 13 DETAIL LW</p> <p>SHEET 13 DETAIL LX</p> <p>SHEET 13 DETAIL LY</p> <p>SHEET 13 DETAIL LZ</p> <p>SHEET 13 DETAIL MA</p> <p>SHEET 13 DETAIL MB</p> <p>SHEET 13 DETAIL MC</p> <p>SHEET 13 DETAIL MD</p> <p>SHEET 13 DETAIL ME</p> <p>SHEET 13 DETAIL MF</p> <p>SHEET 13 DETAIL MG</p> <p>SHEET 13 DETAIL MH</p> <p>SHEET 13 DETAIL MI</p> <p>SHEET 13 DETAIL MJ</p> <p>SHEET 13 DETAIL MK</p> <p>SHEET 13 DETAIL ML</p> <p>SHEET 13 DETAIL MM</p> <p>SHEET 13 DETAIL MN</p> <p>SHEET 13 DETAIL MO</p> <p>SHEET 13 DETAIL MP</p> <p>SHEET 13 DETAIL MQ</p> <p>SHEET 13 DETAIL MR</p> <p>SHEET 13 DETAIL MS</p> <p>SHEET 13 DETAIL MT</p> <p>SHEET 13 DETAIL MU</p> <p>SHEET 13 DETAIL MV</p> <p>SHEET 13 DETAIL MW</p> <p>SHEET 13 DETAIL MX</p> <p>SHEET 13 DETAIL MY</p> <p>SHEET 13 DETAIL MZ</p> <p>SHEET 13 DETAIL NA</p> <p>SHEET 13 DETAIL NB</p> <p>SHEET 13 DETAIL NC</p> <p>SHEET 13 DETAIL ND</p> <p>SHEET 13 DETAIL NE</p> <p>SHEET 13 DETAIL NF</p> <p>SHEET 13 DETAIL NG</p> <p>SHEET 13 DETAIL NH</p> <p>SHEET 13 DETAIL NI</p> <p>SHEET 13 DETAIL NJ</p> <p>SHEET 13 DETAIL NK</p> <p>SHEET 13 DETAIL NL</p> <p>SHEET 13 DETAIL NM</p> <p>SHEET 13 DETAIL NN</p> <p>SHEET 13 DETAIL NO</p> <p>SHEET 13 DETAIL NP</p> <p>SHEET 13 DETAIL NQ</p> <p>SHEET 13 DETAIL NR</p> <p>SHEET 13 DETAIL NS</p> <p>SHEET 13 DETAIL NT</p> <p>SHEET 13 DETAIL NU</p> <p>SHEET 13 DETAIL NV</p> <p>SHEET 13 DETAIL NW</p> <p>SHEET 13 DETAIL NX</p> <p>SHEET 13 DETAIL NY</p> <p>SHEET 13 DETAIL NZ</p> <p>SHEET 13 DETAIL OA</p> <p>SHEET 13 DETAIL OB</p> <p>SHEET 13 DETAIL OC</p> <p>SHEET 13 DETAIL OD</p> <p>SHEET 13 DETAIL OE</p> <p>SHEET 13 DETAIL OF</p> <p>SHEET 13 DETAIL OG</p> <p>SHEET 13 DETAIL OH</p> <p>SHEET 13 DETAIL OI</p> <p>SHEET 13 DETAIL OJ</p> <p>SHEET 13 DETAIL OK</p> <p>SHEET 13 DETAIL OL</p> <p>SHEET 13 DETAIL OM</p> <p>SHEET 13 DETAIL ON</p> <p>SHEET 13 DETAIL OO</p> <p>SHEET 13 DETAIL OP</p> <p>SHEET 13 DETAIL OQ</p> <p>SHEET 13 DETAIL OR</p> <p>SHEET 13 DETAIL OS</p> <p>SHEET 13 DETAIL OT</p> <p>SHEET 13 DETAIL OU</p> <p>SHEET 13 DETAIL OV</p> <p>SHEET 13 DETAIL OW</p> <p>SHEET 13 DETAIL OX</p> <p>SHEET 13 DETAIL OY</p> <p>SHEET 13 DETAIL OZ</p> <p>SHEET 13 DETAIL PA</p> <p>SHEET 13 DETAIL PB</p> <p>SHEET 13 DETAIL PC</p> <p>SHEET 13 DETAIL PD</p> <p>SHEET 13 DETAIL PE</p> <p>SHEET 13 DETAIL PF</p> <p>SHEET 13 DETAIL PG</p> <p>SHEET 13 DETAIL PH</p> <p>SHEET 13 DETAIL PI</p> <p>SHEET 13 DETAIL PJ</p> <p>SHEET 13 DETAIL PK</p> <p>SHEET 13 DETAIL PL</p> <p>SHEET 13 DETAIL PM</p> <p>SHEET 13 DETAIL PN</p> <p>SHEET 13 DETAIL PO</p> <p>SHEET 13 DETAIL PP</p> <p>SHEET 13 DETAIL PQ</p> <p>SHEET 13 DETAIL PR</p> <p>SHEET 13 DETAIL PS</p> <p>SHEET 13 DETAIL PT</p> <p>SHEET 13 DETAIL PU</p> <p>SHEET 13 DETAIL PV</p> <p>SHEET 13 DETAIL PW</p> <p>SHEET 13 DETAIL PX</p> <p>SHEET 13 DETAIL PY</p> <p>SHEET 13 DETAIL PZ</p> <p>SHEET 13 DETAIL QA</p> <p>SHEET 13 DETAIL QB</p> <p>SHEET 13 DETAIL QC</p> <p>SHEET 13 DETAIL QD</p> <p>SHEET 13 DETAIL QE</p> <p>SHEET 13 DETAIL QF</p> <p>SHEET 13 DETAIL QG</p> <p>SHEET 13 DETAIL QH</p> <p>SHEET 13 DETAIL QI</p> <p>SHEET 13 DETAIL QJ</p> <p>SHEET 13 DETAIL QK</p> <p>SHEET 13 DETAIL QL</p> <p>SHEET 13 DETAIL QM</p> <p>SHEET 13 DETAIL QN</p> <p>SHEET 13 DETAIL QO</p> <p>SHEET 13 DETAIL QP</p> <p>SHEET 13 DETAIL QQ</p> <p>SHEET 13 DETAIL QR</p> <p>SHEET 13 DETAIL QS</p> <p>SHEET 13 DETAIL QT</p> <p>SHEET 13 DETAIL QU</p> <p>SHEET 13 DETAIL QV</p> <p>SHEET 13 DETAIL QW</p> <p>SHEET 13 DETAIL QX</p> <p>SHEET 13 DETAIL QY</p> <p>SHEET 13 DETAIL QZ</p> <p>SHEET 13 DETAIL RA</p> <p>SHEET 13 DETAIL RB</p> <p>SHEET 13 DETAIL RC</p> <p>SHEET 13 DETAIL RD</p> <p>SHEET 13 DETAIL RE</p> <p>SHEET 13 DETAIL RF</p> <p>SHEET 13 DETAIL RG</p> <p>SHEET 13 DETAIL RH</p> <p>SHEET 13 DETAIL RI</p> <p>SHEET 13 DETAIL RJ</p> <p>SHEET 13 DETAIL RK</p> <p>SHEET 13 DETAIL RL</p> <p>SHEET 13 DETAIL RM</p> <p>SHEET 13 DETAIL RN</p> <p>SHEET 13 DETAIL RO</p> <p>SHEET 13 DETAIL RP</p> <p>SHEET 13 DETAIL RQ</p> <p>SHEET 13 DETAIL RR</p> <p>SHEET 13 DETAIL RS</p> <p>SHEET 13 DETAIL RT</p> <p>SHEET 13 DETAIL RU</p> <p>SHEET 13 DETAIL RV</p> <p>SHEET 13 DETAIL RW</p> <p>SHEET 13 DETAIL RX</p> <p>SHEET 13 DETAIL RY</p> <p>SHEET 13 DETAIL RZ</p> <p>SHEET 13 DETAIL SA</p> <p>SHEET 13 DETAIL SB</p> <p>SHEET 13 DETAIL SC</p> <p>SHEET 13 DETAIL SD</p> <p>SHEET 13 DETAIL SE</p> <p>SHEET 13 DETAIL SF</p> <p>SHEET 13 DETAIL SG</p> <p>SHEET 13 DETAIL SH</p> <p>SHEET 13 DETAIL SI</p> <p>SHEET 13 DETAIL SJ</p> <p>SHEET 13 DETAIL SK</p> <p>SHEET 13 DETAIL SL</p> <p>SHEET 13 DETAIL SM</p> <p>SHEET 13 DETAIL SN</p> <p>SHEET 13 DETAIL SO</p> <p>SHEET 13 DETAIL SP</p> <p>SHEET 13 DETAIL SQ</p> <p>SHEET 13 DETAIL SR</p> <p>SHEET 13 DETAIL SS</p> <p>SHEET 13 DETAIL ST</p> <p>SHEET 13 DETAIL SU</p> <p>SHEET 13 DETAIL SV</p> <p>SHEET 13 DETAIL SW</p> <p>SHEET 13 DETAIL SX</p> <p>SHEET 13 DETAIL SY</p> <p>SHEET 13 DETAIL SZ</p> <p>SHEET 13 DETAIL TA</p> <p>SHEET 13 DETAIL TB</p> <p>SHEET 13 DETAIL TC</p> <p>SHEET 13 DETAIL TD</p> <p>SHEET 13 DETAIL TE</p> <p>SHEET 13 DETAIL TF</p> <p>SHEET 13 DETAIL TG</p> <p>SHEET 13 DETAIL TH</p> <p>SHEET 13 DETAIL TI</p> <p>SHEET 13 DETAIL TJ</p> <p>SHEET 13 DETAIL TK</p> <p>SHEET 13 DETAIL TL</p> <p>SHEET 13 DETAIL TM</p> <p>SHEET 13 DETAIL TN</p> <p>SHEET 13 DETAIL TO</p> <p>SHEET 13 DETAIL TP</p> <p>SHEET 13 DETAIL TQ</p> <p>SHEET 13 DETAIL TR</p> <p>SHEET 13 DETAIL TS</p> <p>SHEET 13 DETAIL TT</p> <p>SHEET 13 DETAIL TU</p> <p>SHEET 13 DETAIL TV</p> <p>SHEET 13 DETAIL TW</p> <p>SHEET 13 DETAIL TX</p> <p>SHEET 13 DETAIL TY</p> <p>SHEET 13 DETAIL TZ</p> <p>SHEET 13 DETAIL UA</p> <p>SHEET 13 DETAIL UB</p> <p>SHEET 13 DETAIL UC</p> <p>SHEET 13 DETAIL UD</p> <p>SHEET 13 DETAIL UE</p> <p>SHEET 13 DETAIL UF</p> <p>SHEET 13 DETAIL UG</p> <p>SHEET 13 DETAIL UH</p> <p>SHEET 13 DETAIL UI</p> <p>SHEET 13 DETAIL UJ</p> <p>SHEET 13 DETAIL UK</p> <p>SHEET 13 DETAIL UL</p> <p>SHEET 13 DETAIL UM</p> <p>SHEET 13 DETAIL UN</p> <p>SHEET 13 DETAIL UO</p> <p>SHEET 13 DETAIL UP</p> <p>SHEET 13 DETAIL UQ</p> <p>SHEET 13 DETAIL UR</p> <p>SHEET 13 DETAIL US</p> <p>SHEET 13 DETAIL UT</p> <p>SHEET 13 DETAIL UY</p> <p>SHEET 13 DETAIL UZ</p> <p>SHEET 13 DETAIL VA</p> <p>SHEET 13 DETAIL VB</p> <p>SHEET 13 DETAIL VC</p> <p>SHEET 13 DETAIL VD</p> <p>SHEET 13 DETAIL VE</p> <p>SHEET 13 DETAIL VF</p> <p>SHEET 13 DETAIL VG</p> <p>SHEET 13 DETAIL VH</p> <p>SHEET 13 DETAIL VI</p> <p>SHEET 13 DETAIL VJ</p> <p>SHEET 13 DETAIL VK</p> <p>SHEET 13 DETAIL VL</p> <p>SHEET 13 DETAIL VM</p> <p>SHEET 13 DETAIL VN</p> <p>SHEET 13 DETAIL VO</p> <p>SHEET 13 DETAIL VP</p> <p>SHEET 13 DETAIL VQ</p> <p>SHEET 13 DETAIL VR</p> <p>SHEET 13 DETAIL VS</p> <p>SHEET 13 DETAIL VT</p> <p>SHEET 13 DETAIL VY</p> <p>SHEET 13 DETAIL VZ</p> <p>SHEET 13 DETAIL WA</p> <p>SHEET 13 DETAIL WB</p> <p>SHEET 13 DETAIL WC</p> <p>SHEET 13 DETAIL WD</p> <p>SHEET 13 DETAIL WE</p> <p>SHEET 13 DETAIL WF</p> <p>SHEET 13 DETAIL WG</p> <p>SHEET 13 DETAIL WH</p> <p>SHEET 13 DETAIL WI</p> <p>SHEET 13 DETAIL WJ</p> <p>SHEET 13 DETAIL WK</p> <p>SHEET 13 DETAIL WL</p> <p>SHEET 13 DETAIL WM</p> <p>SHEET 13 DETAIL WN</p> <p>SHEET 13 DETAIL WO</p> <p>SHEET 13 DETAIL WP</p> <p>SHEET 13 DETAIL WQ</p> <p>SHEET 13 DETAIL WR</p> <p>SHEET 13 DETAIL WS</p> <p>SHEET 13 DETAIL WT</p> <p>SHEET 13 DETAIL WY</p> <p>SHEET 13 DETAIL WZ</p> <p>SHEET 13 DETAIL XA</p> <p>SHEET 13 DETAIL XB</p> <p>SHEET 13 DETAIL XC</p> <p>SHEET 13 DETAIL XD</p> <p>SHEET 13 DETAIL XE</p> <p>SHEET 13 DETAIL XF</p> <p>SHEET 13 DETAIL XG</p> <p>SHEET 13 DETAIL XH</p> <p>SHEET 13 DETAIL XI</p> <p>SHEET 13 DETAIL XJ</p> <p>SHEET 13 DETAIL XK</p> <p>SHEET 13 DETAIL XL</p> <p>SHEET 13 DETAIL XM</p> <p>SHEET 13 DETAIL XN</p> <p>SHEET 13 DETAIL XO</p> <p>SHEET 13 DETAIL XP</p> <p>SHEET 13 DETAIL XQ</p> <p>SHEET 13 DETAIL XR</p> <p>SHEET 13 DETAIL XS</p> <p>SHEET 13 DETAIL XT</p> <p>SHEET 13 DETAIL XY</p> <p>SHEET 13 DETAIL XZ</p> <p>SHEET 13 DETAIL YA</p> <p>SHEET 13 DETAIL YB</p> <p>SHEET 13 DETAIL YC</p> <p>SHEET 13 DETAIL YD</p> <p>SHEET 13 DETAIL YE</p> <p>SHEET 13 DETAIL YF</p> <p>SHEET 13 DETAIL YG</p> <p>SHEET 13 DETAIL YH</p> <p>SHEET 13 DETAIL YI</p> <p>SHEET 13 DETAIL YJ</p> <p>SHEET 13 DETAIL YK</p> <p>SHEET 13 DETAIL YL</p> <p>SHEET 13 DETAIL YM</p> <p>SHEET 13 DETAIL YN</p> <p>SHEET 13 DETAIL YO</p> <p>SHEET 13 DETAIL YP</p> <p>SHEET 13 DETAIL YQ</p> <p>SHEET 13 DETAIL YR</p> <p>SHEET 13 DETAIL YS</p> <p>SHEET 13 DETAIL YT</p> <p>SHEET 13 DETAIL YZ</p> <p>SHEET 13 DETAIL ZA</p> <p>SHEET 13 DETAIL ZB</p> <p>SHEET 13 DETAIL ZC</p> <p>SHEET 13 DETAIL ZD</p> <p>SHEET 13 DETAIL ZE</p> <p>SHEET 13 DETAIL ZF</p> <p>SHEET 13 DETAIL ZG</p> <p>SHEET 13 DETAIL ZH</p> <p>SHEET 13 DETAIL ZI</p> <p>SHEET 13 DETAIL ZJ</p> <p>SHEET 13 DETAIL ZK</p> <p>SHEET 13 DETAIL ZL</p> <p>SHEET 13 DETAIL ZM</p> <p>SHEET 13 DETAIL ZN</p> <p>SHEET 13 DETAIL ZO</p> <p>SHEET 13 DETAIL ZP</p> <p>SHEET 13 DETAIL ZQ</p> <p>SHEET 13 DETAIL ZR</p> <p>SHEET 13 DETAIL ZS</p> <p>SHEET 13 DETAIL ZT</p> <p>SHEET 13 DETAIL ZY</p> <p>SHEET 13 DETAIL ZZ</p>	<p>UTILITY POLE C/W ANCHOR PIT TOILET SINGLE SWING GATE SIGN AFFIXED TO POST DRAINAGE SWALE DRAINAGE DIRECTION SECURITY FENCE (BY OTHERS) PUBLIC SAFETY FENCE WITH APPROXIMATE HEIGHT (FEET) WATER LINE JERSEY BARRIERS RETAINING WALL ASPHALT CURB SEE DETAIL DRAWINGS SHEET # - DETAIL # PAVEMENT REHABILITATION NEW PAVEMENT C/W BASE (DESIGNATED "NO PARKING") 1/2" MINUS ROAD MULKY TOPPING LIMESTONE TOPPING WORK/TOPPING BY OTHERS.</p> <p>PREPARED</p>
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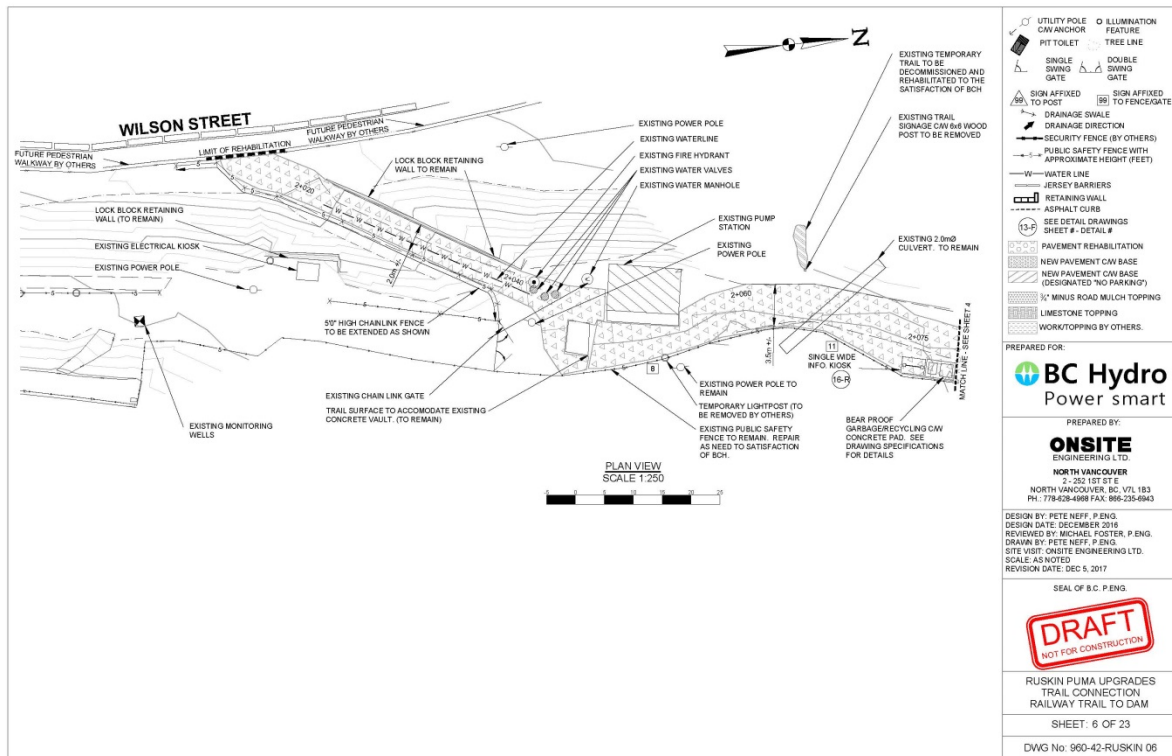




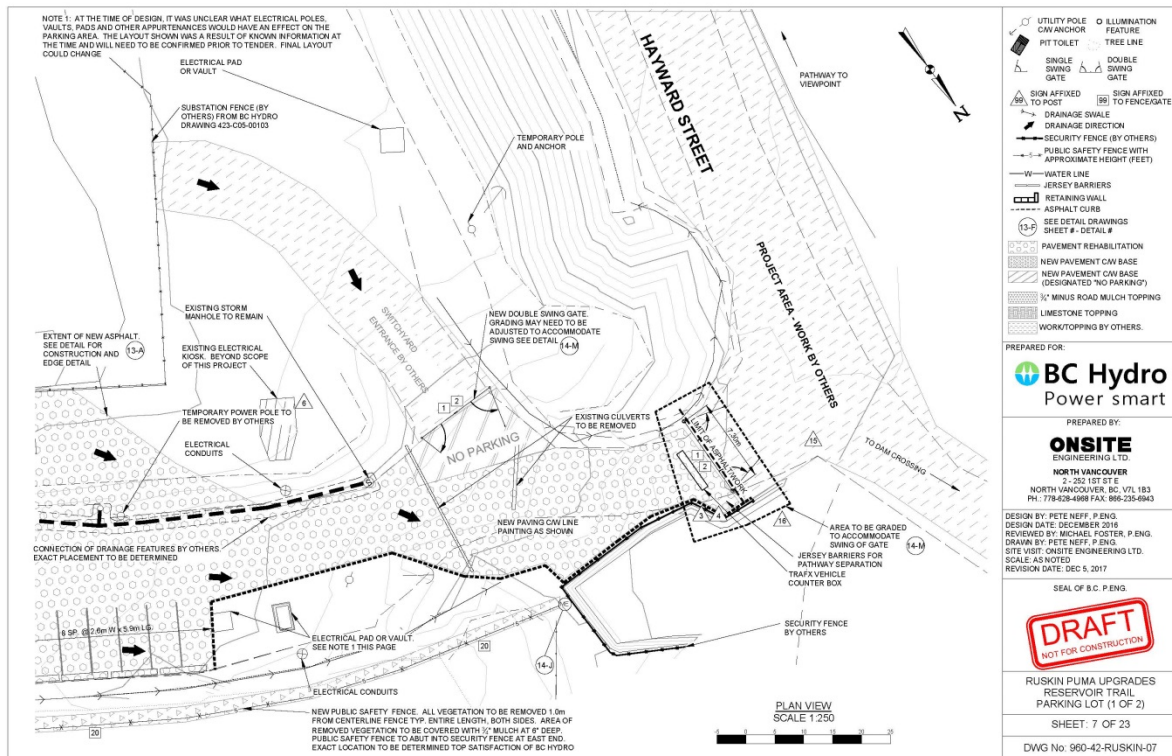


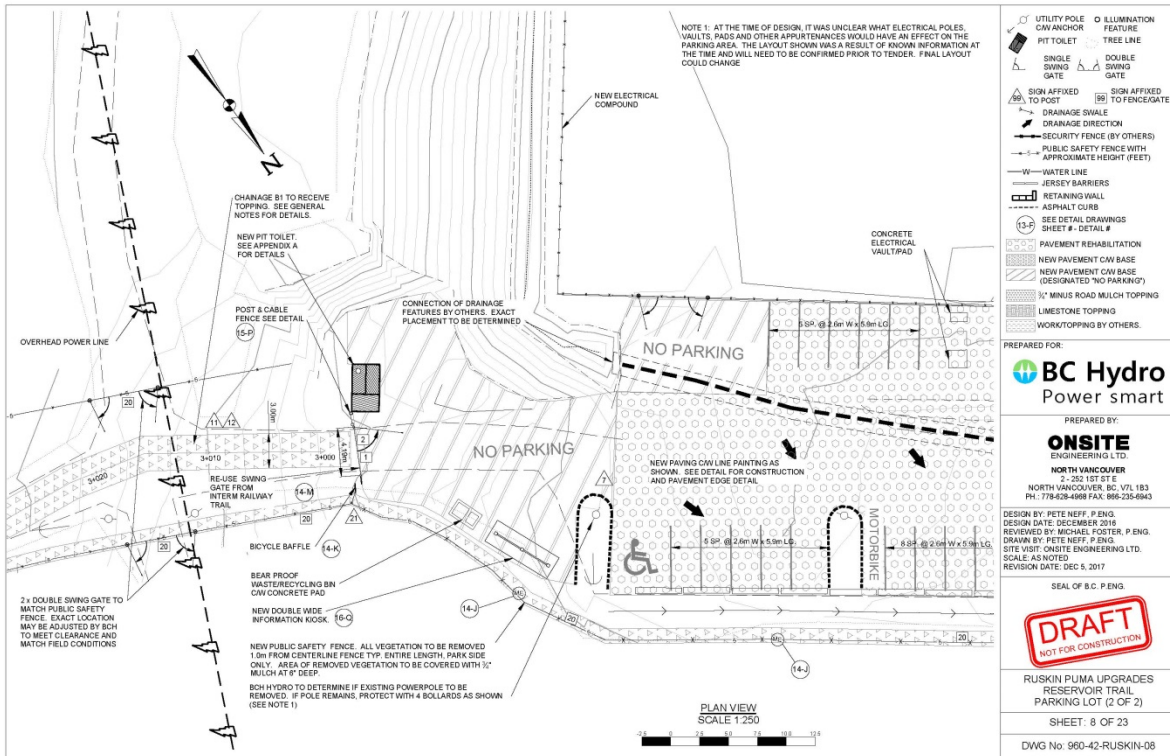


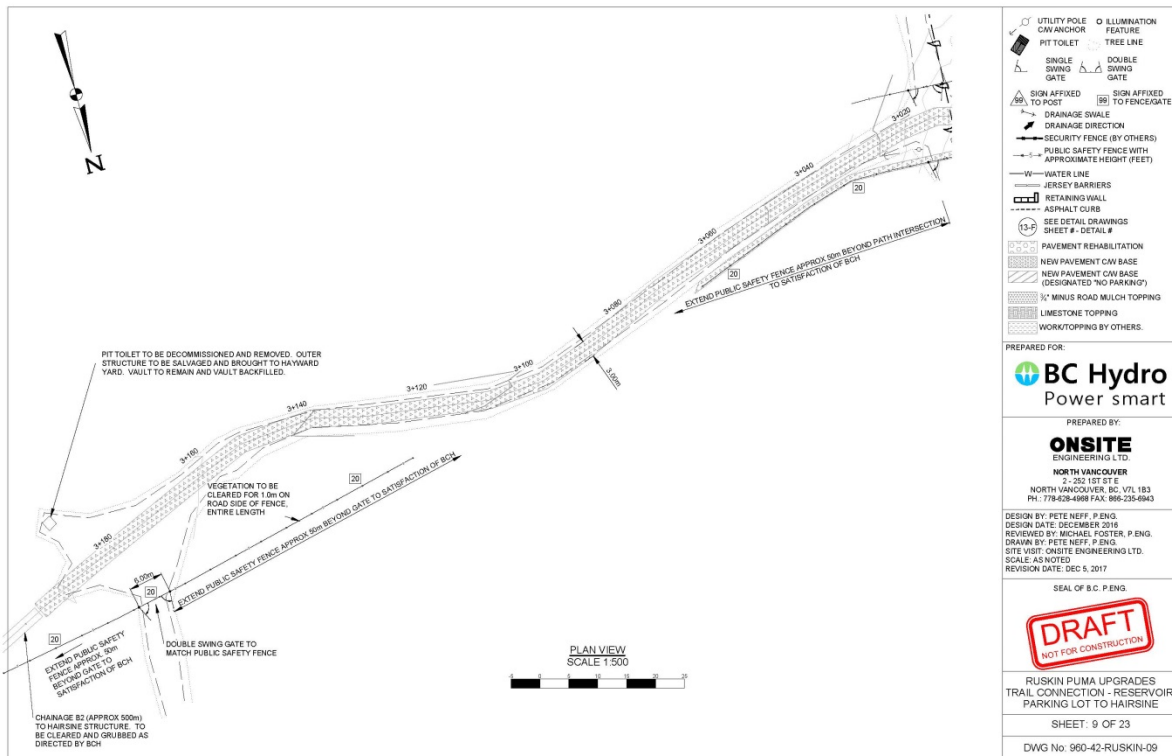




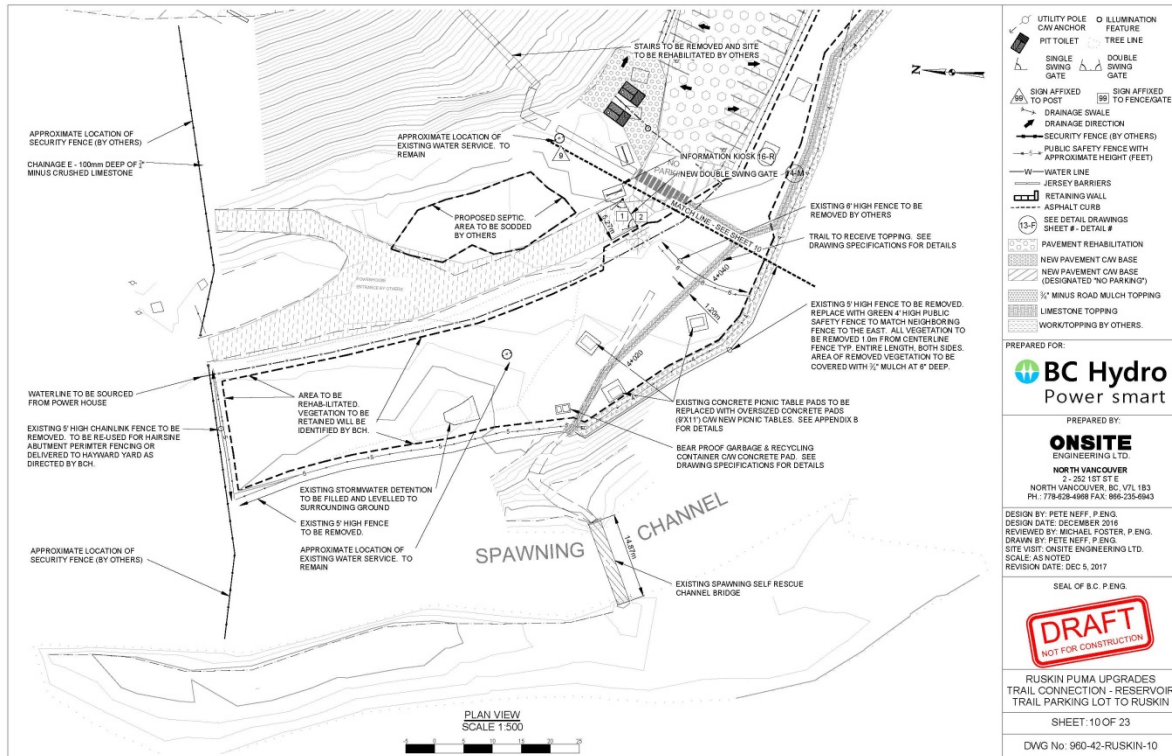


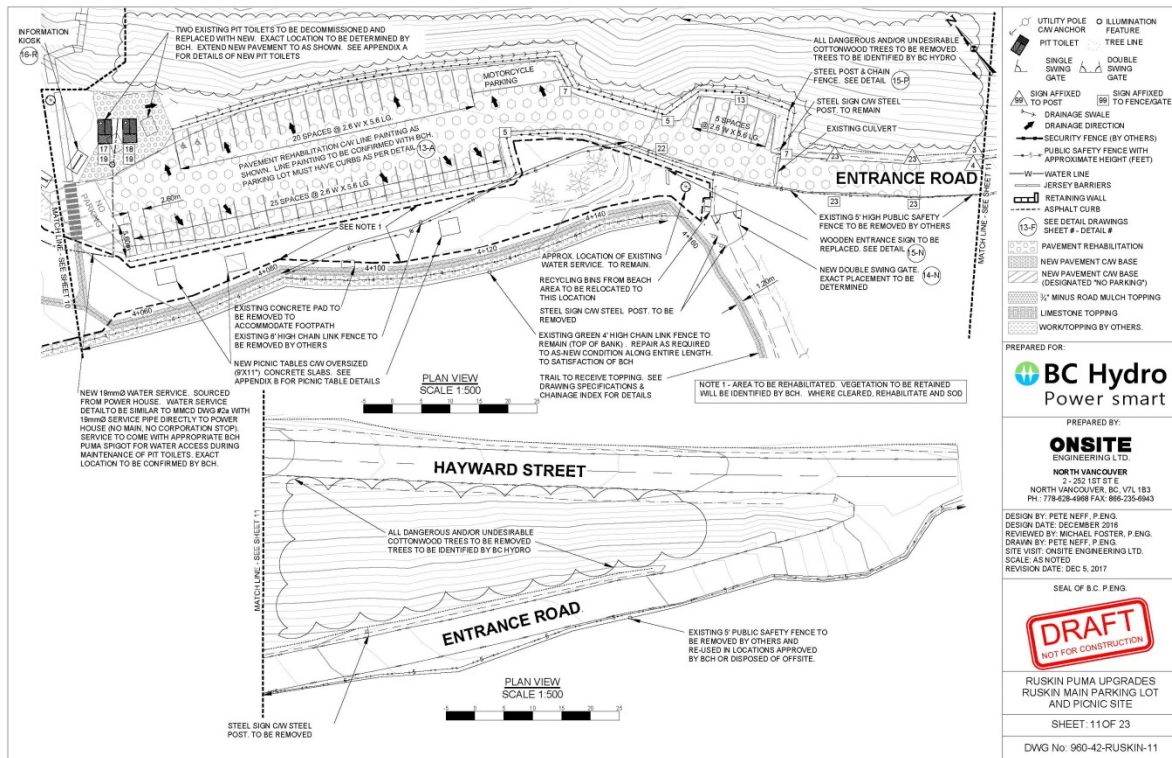


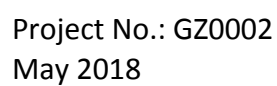


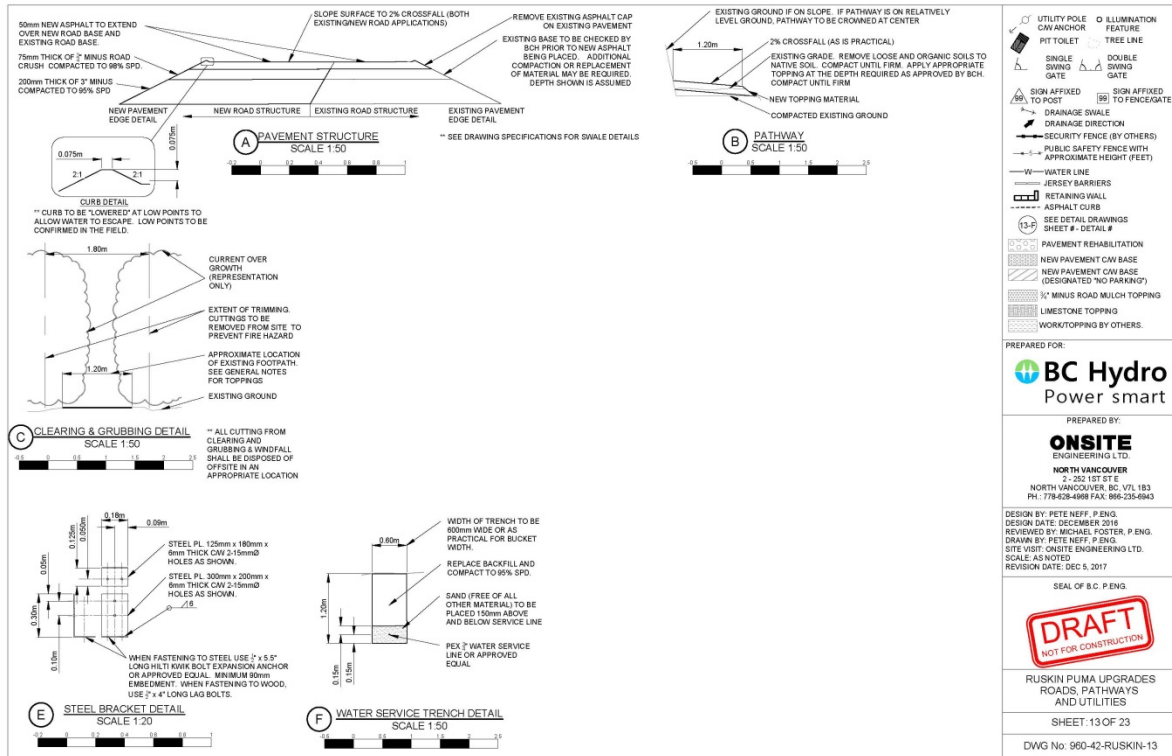


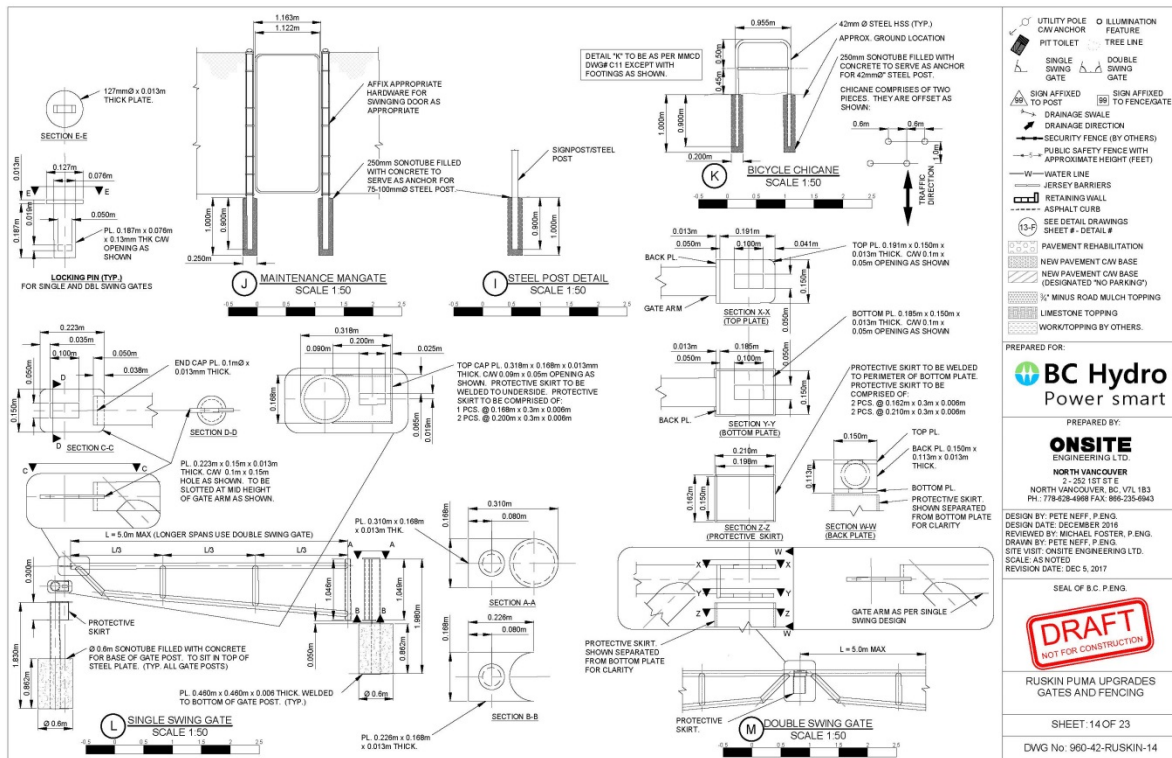


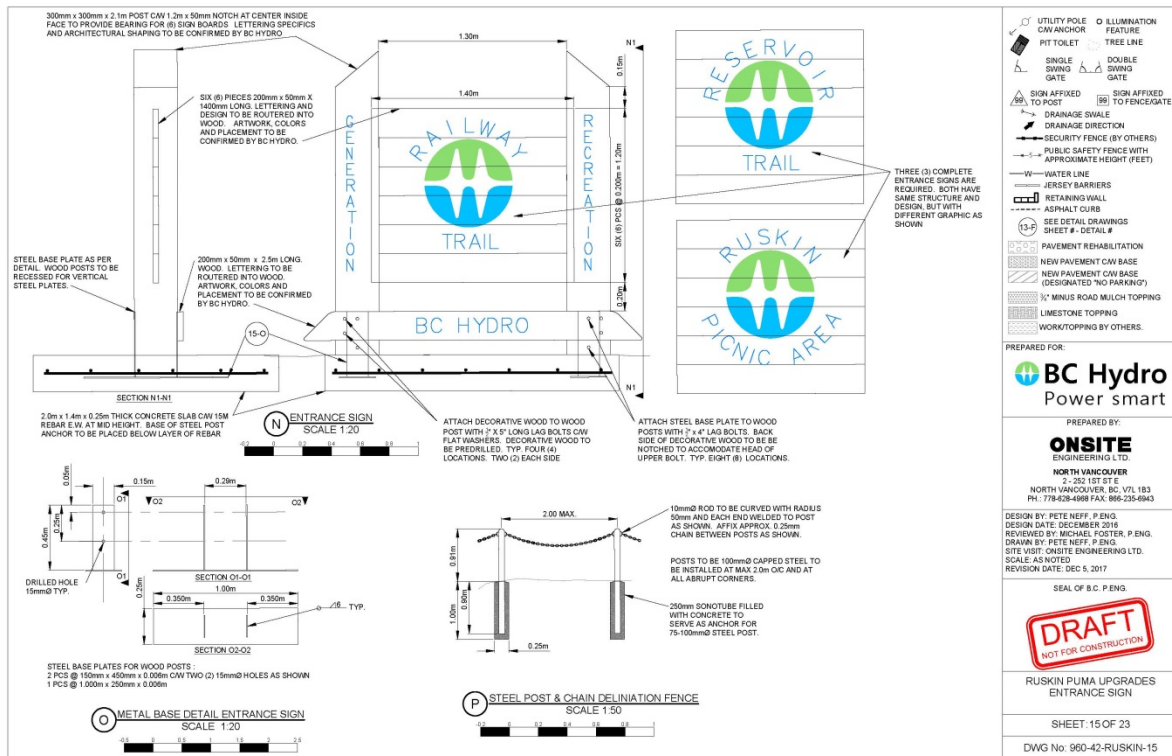




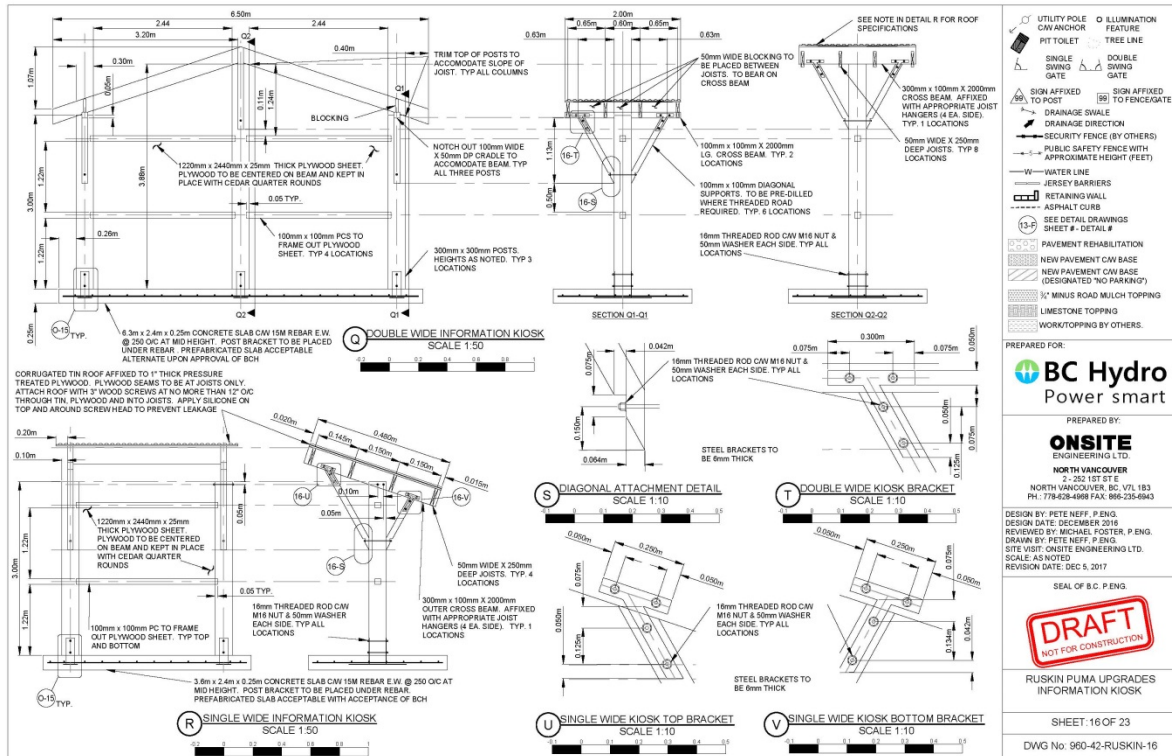


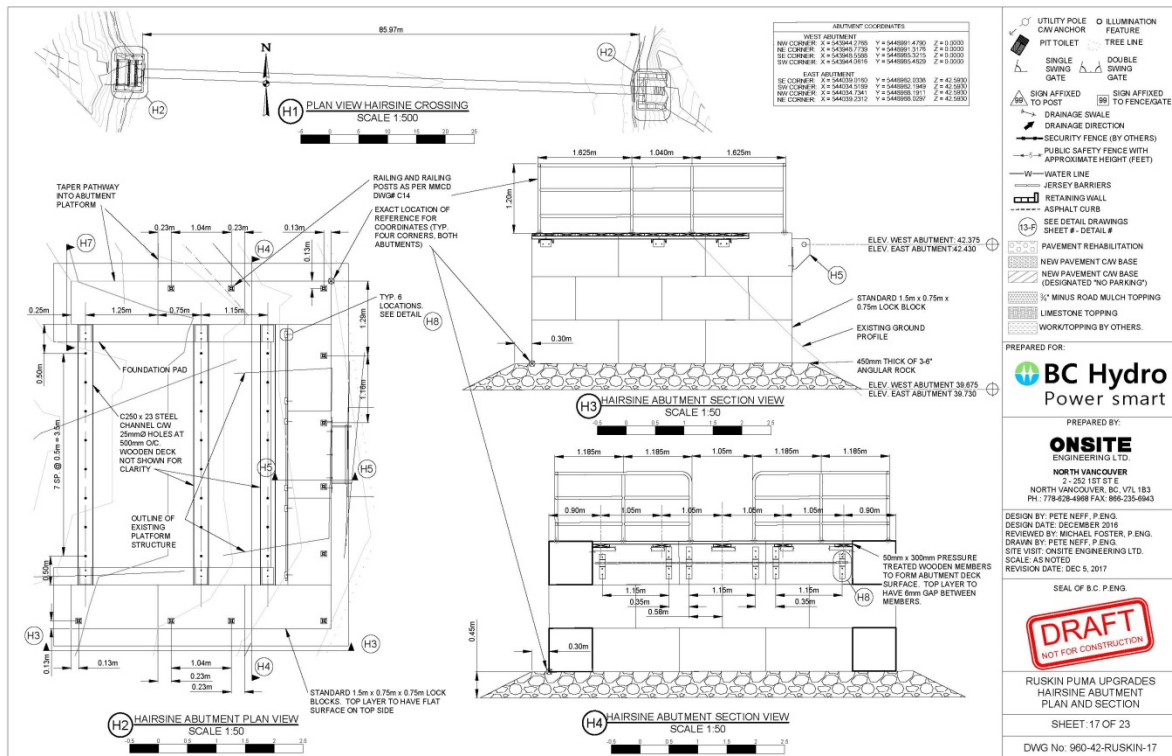




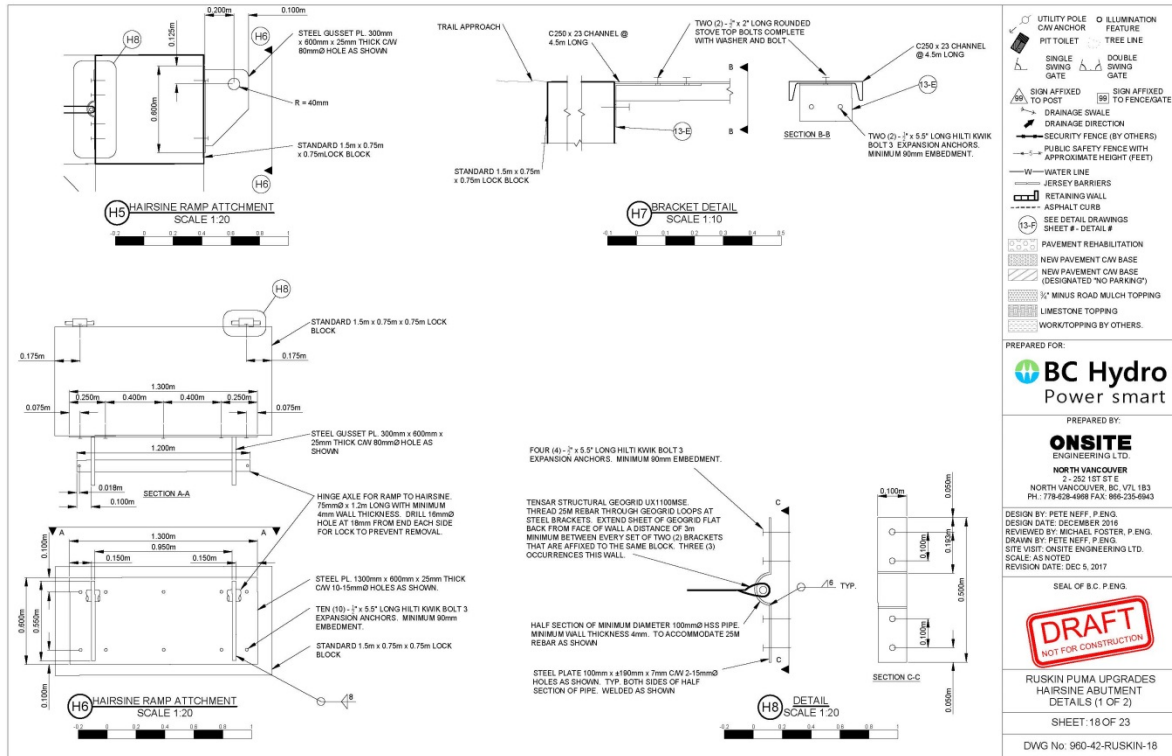


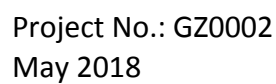












ASSIGNED SIGN #	DESCRIPTION	REFERENCE DOCUMENT	QUANTITY PER SHEET											
			SHT 1	SHT 2	SHT 3	SHT 4	SHT 5	SHT 6	SHT 7	SHT 8	SHT 9	SHT 10	SHT 11	SHT 12
1	CHECKERBOARD	SSP 510-054					3	2	2		1			8
2	NO PARKING IN FRONT OF GATE	SSP 510-007					3	2	2		1			8
3	MAX. 15KPH	SSP T16-005A					1	1						3
4	GATES WILL BE CLOSED AND LOCKED AT DUSK	PUMA 3.80					1	1			1			3
5	NO PARKING - LEFT ARROW	SSP T13-004					1				2			3
6	NO PARKING	SSP T16-003.1					3	1	2					6
7	NO PARKING - RIGHT ARROW	SSP T13-006					2		1		2			5
8	DANGER KEEP OUT	SSP 512-065						5	1					6
9	RUSKIN DAM - RIGHT ARROW	TBC					1				1			2
10	RAILWAY TRAIL - LEFT ARROW	TBC					1							1
11	GATES ARE LOCKED 1/2 HOUR BEFORE DUSK	PUMA 2.70						1	1	1				3
12	ALCOHOL IS PROHIBITED	PUMA 3.31A						1		1				2
13	MOTORCYCLE PARKING ONLY	SSP 515-182					1				1			2
15	STOP SIGN	SSP 513-017							1					1
16	RES. TRAIL / RUSKIN PICNIC AREA - RIGHT ARROW	TBC						1						1
17	MEN'S TOILET	PUMA 2.87									1			1
18	DO NOT DEPOSIT LITTER	PUMA 3.44									2			2
19	WOMEN'S TOILET	PUMA 2.88									1			1
20	NO TRESPASSING - ARROW UP	PUMA 2.01						2	5	5				12
21	TOILET IN PUBLIC AREA - ARROW UP	TBC										1		1
22	NO PARKING - BOTH SIDES	SSP T16-003.1										1		1
23	NO PARKING - FIRE LANE	SSP 516-041										4		4

UTILITY POLE  
C/W ANCHOR  
PIT TOILET  
SINGLE SWING GATE  
SIGN AFFIXED TO POST  
SIGN AFFIXED TO FENCE/GATE  
ILLUMINATION FEATURE  
TREE LINE  
DOUBLE SWING GATE  
DRAINAGE DIRECTION  
DRAINAGE SWALE  
SECURITY FENCE (BY OTHERS)  
PUBLIC SAFETY FENCE WITH APPROXIMATE HEIGHT (FEET)  
WATER LINE  
JERSEY BARRIERS  
RETAINING WALL  
ASPHALT CURB  
SEE DETAIL DRAWINGS  
SHEET # - DETAIL #  
PAVEMENT REHABILITATION  
NEW PAVEMENT C/W BASE  
NEW PAVEMENT C/W BASE (DESIGNATED "NO PARKING")  
1/2" MINUS ROAD MULCH TOPPING  
LIMESTONE TOPPING  
WORKTOPPING BY OTHERS.

PREPARED BY:  
**ONSITE**  
ENGINEERING LTD.  
NORTH VANCOUVER  
2, 252 1ST ST E  
NORTH VANCOUVER, B.C. V7L 1B3  
PH.: 778-628-4968 FAX: 866-235-8843















**BChydro**  
RUSKIN DAM  
PUMA UPGRADES  
SIGNAGE CHART

NO	ISSUED FOR CONSTRUCTION	DD-MM-YY	XXXXXXXXXXXXXXXX	XX	XX	XX	INSP	REV	ACPT	REV	DATE	DISTR	DWG NO	960-42-RUSKIN-20	SIZE	B	#	0	

DESIGN: PETE NEFF, P. ENG.  
INSP: -  
DFTG: PETE NEFF, P. ENG.  
DFTG CHT: MICHAEL FOSTER, P. ENG.  
INSP:


REVISIONS

NOT TO BE REPRODUCED WITHOUT PERMISSION

 <p>1 SSR 010-004 CHECKERBOARD 3'X30"</p>	 <p>2 SSR 010-007 NO PARKING IN FRONT OF GATE 18'X24"</p>	 <p>3 SSR 116-005A MAX. 15KPH 15'X15"</p>	 <p>4 PUMA 3-BD GATE WILL BE CLOSED AND LOCKED AT DUSK 34'X24"</p>	 <p>5 SSR 113-004 NO PARKING LEFT ARROW 12'X18"</p>
 <p>6 SSR 116-003 NO PARKING 12'X18"</p>	 <p>7 SSR 113-006 NO PARKING RIGHT ARROW 12'X18"</p>	 <p>8 SSR 012-005 DANGER: KEEP OUT 34'X18"</p>	 <p>9 (TBC) RUSKIN DAM RIGHT ARROW 12'X24"</p>	 <p>10 (TBC) RAILWAY TRAIL LEFT ARROW 12'X24"</p>
 <p>11 PUMA 2-70 GATES ARE LOCKED 1/2 HOUR BEFORE DUSK 34'X24"</p>	 <p>12 PUMA 3-1A ALCOHOL IS PROHIBITED 18'X12"</p>	 <p>13 SSR 015-102 MOTORCYCLE PARKING ONLY 12'X16"</p>	 <p>15 SSR 013-017 STOP SIGN 24'X24"</p>	



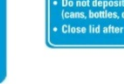





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NORTH VANCOUVER, BC V7L 1B3  
PH: 778-628-4868 FAX: 666-235-6843

0 ISSUED FOR CONSTRUCTION	CO-MM-YY	XXXXXXXXXXXXXXXX	XX	XX	XX	INSP	DTG	INSP	REV	ACFT	DATE	EXST	DWG NO	960-42-RUSKIN-21	SIZE	B	0

**BCHydro** 

**RUSKIN DAM**

**PUMA UPGRADES SIGNAGE CHART**

 <p>16 (TBC) RESERVOIR TRAIL RUSKIN PICNIC AREA RIGHT ARROW 12'X24"</p>	 <p>17 PUMA 2.87 MEN'S TOILET 24'X24"</p>	 <p>18 PUMA 3.44 DO NOT DEPOSIT LITTER 8'X4"</p>	 <p>19 PUMA 2.68 WOMEN'S TOILET 24'X24"</p>	 <p>20 PUMA 2.91 NO TRESPASSING 18'X35"</p>
 <p>21 (TBC) TOILET IN PUBLIC AREA ARROW UP 12'X24"</p>	 <p>22 SSR T16-003.1 NO PARKING BOTH SIDES 12'X10'</p>	 <p>23 SSR S16-041 NO PARKING-FIRE LANE 16'X12'</p>		

ISSUED FOR CONSTRUCTION

NO	REMARKS	DATE	DESIGNED	INSP CHK	DTFG CHK	INSP	REV	ACFT
<div style="display: flex; justify-content: space-between;"> <div>CO-MA Y Y</div> <div>XXXXXXXXXXXXXXXXXX</div> <div>XX XX XX</div> </div>								

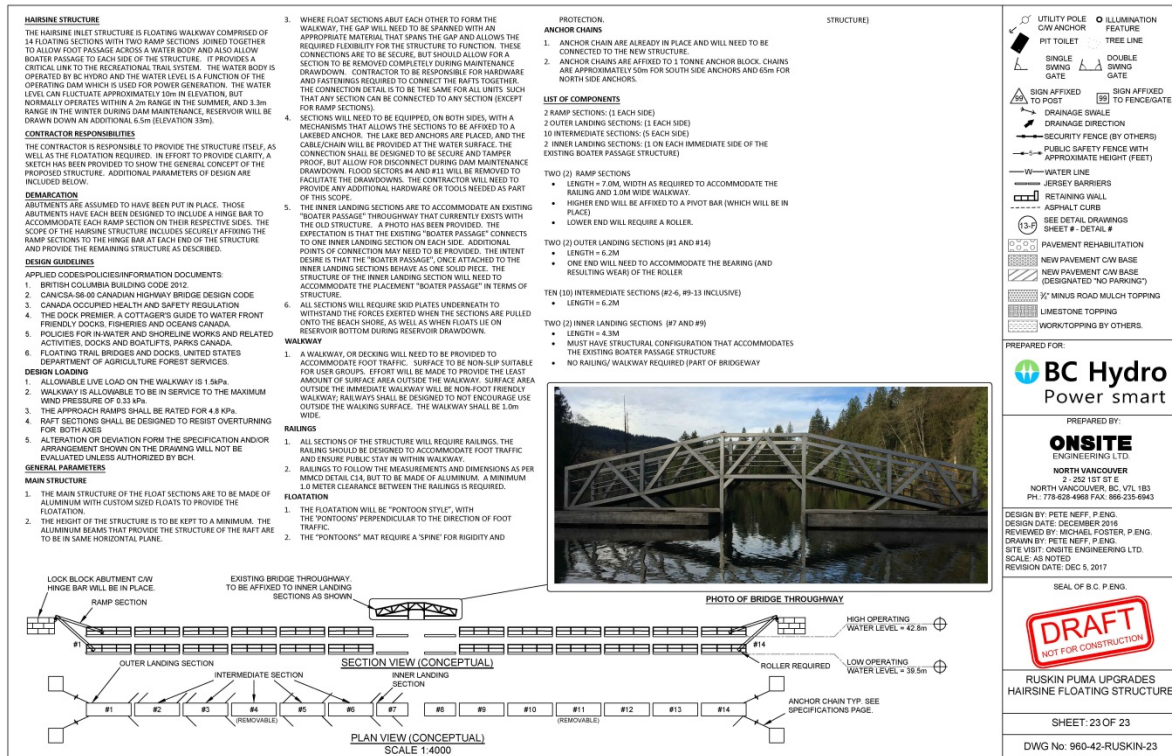
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NORTH VANCOUVER  
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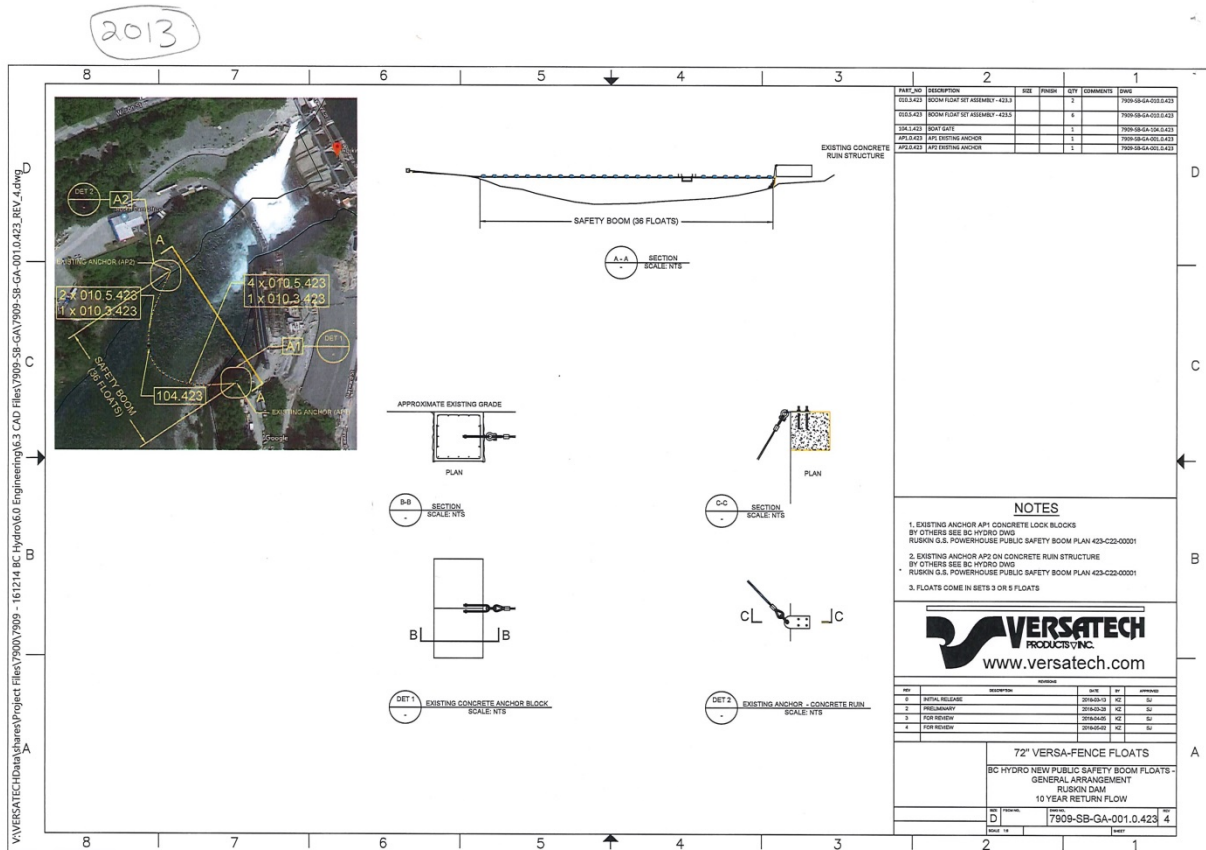
<p><b>BChydro</b> </p> <p>RUSKIN DAM</p> <p>PUMA UPGRADES SIGNAGE CHART</p>		<p>DATE</p> <p>EXTN</p> <p>DWG NO</p> <p>960-42-RUSKIN-22</p> <p>SIZE</p> <p>B</p> <p>0</p>
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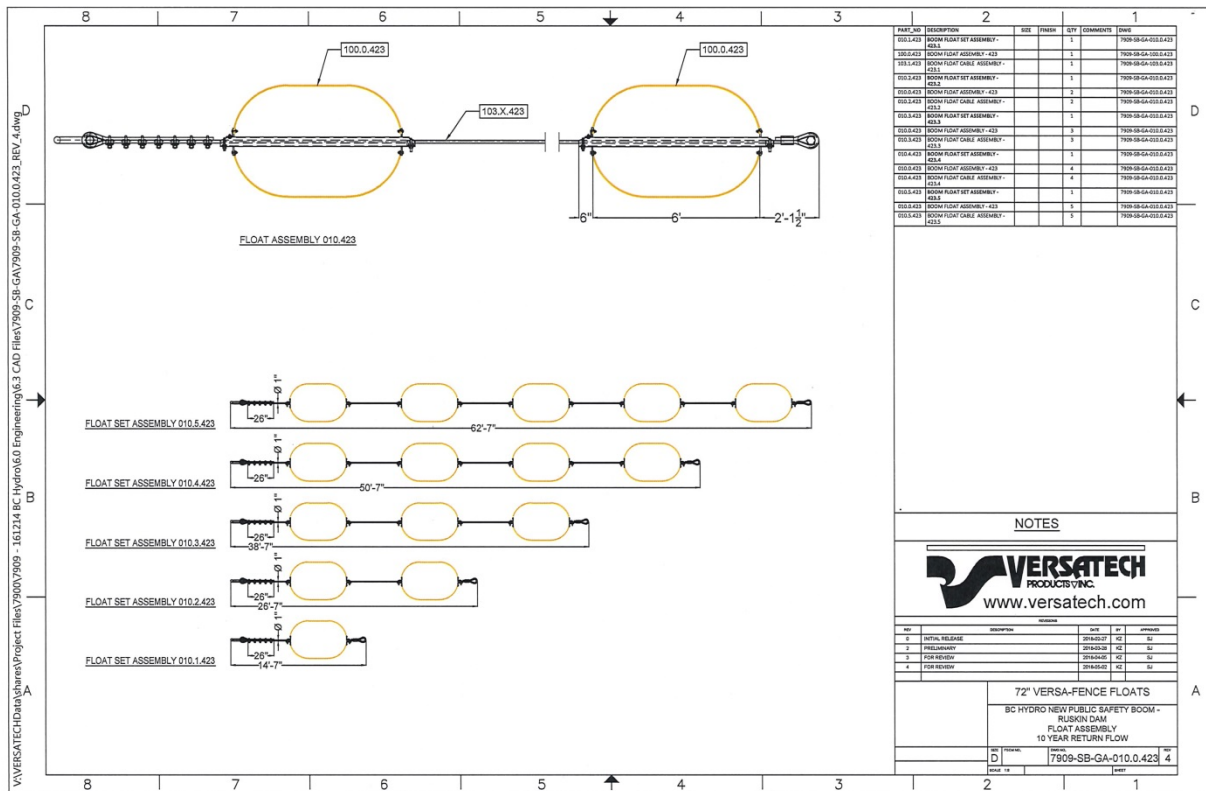
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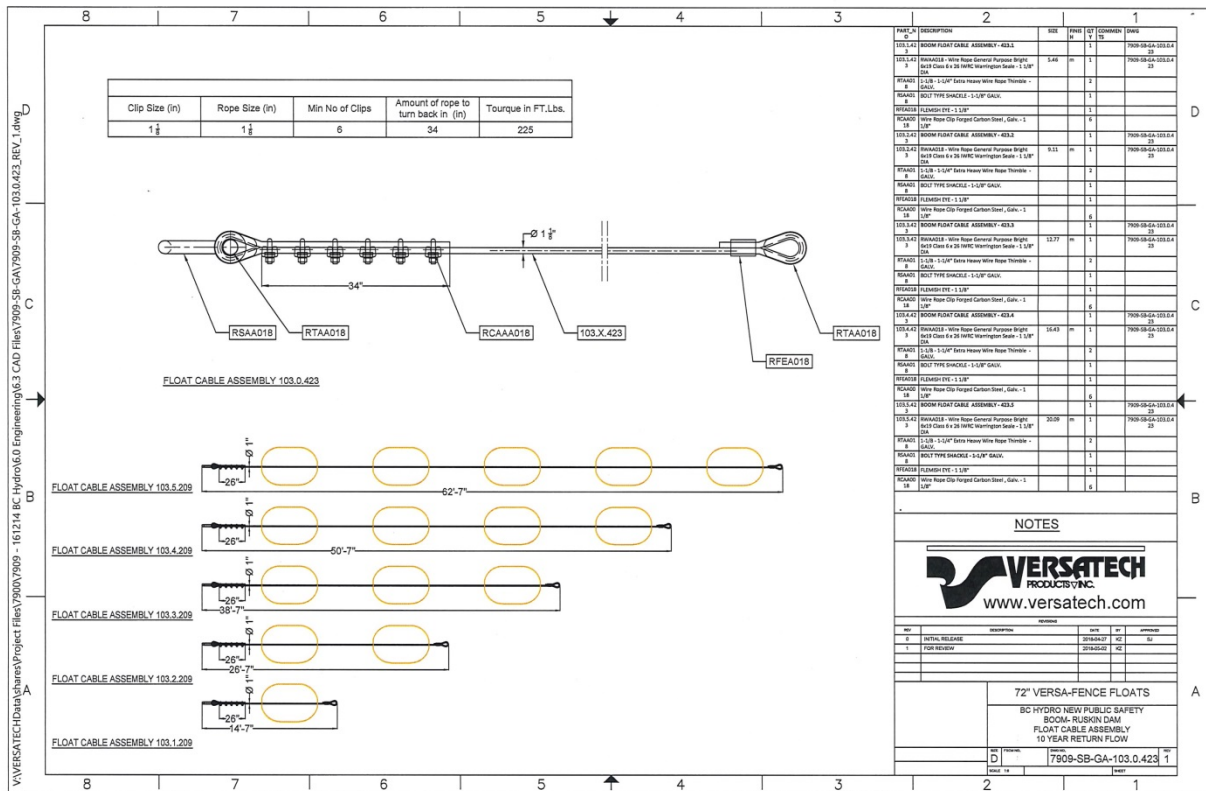




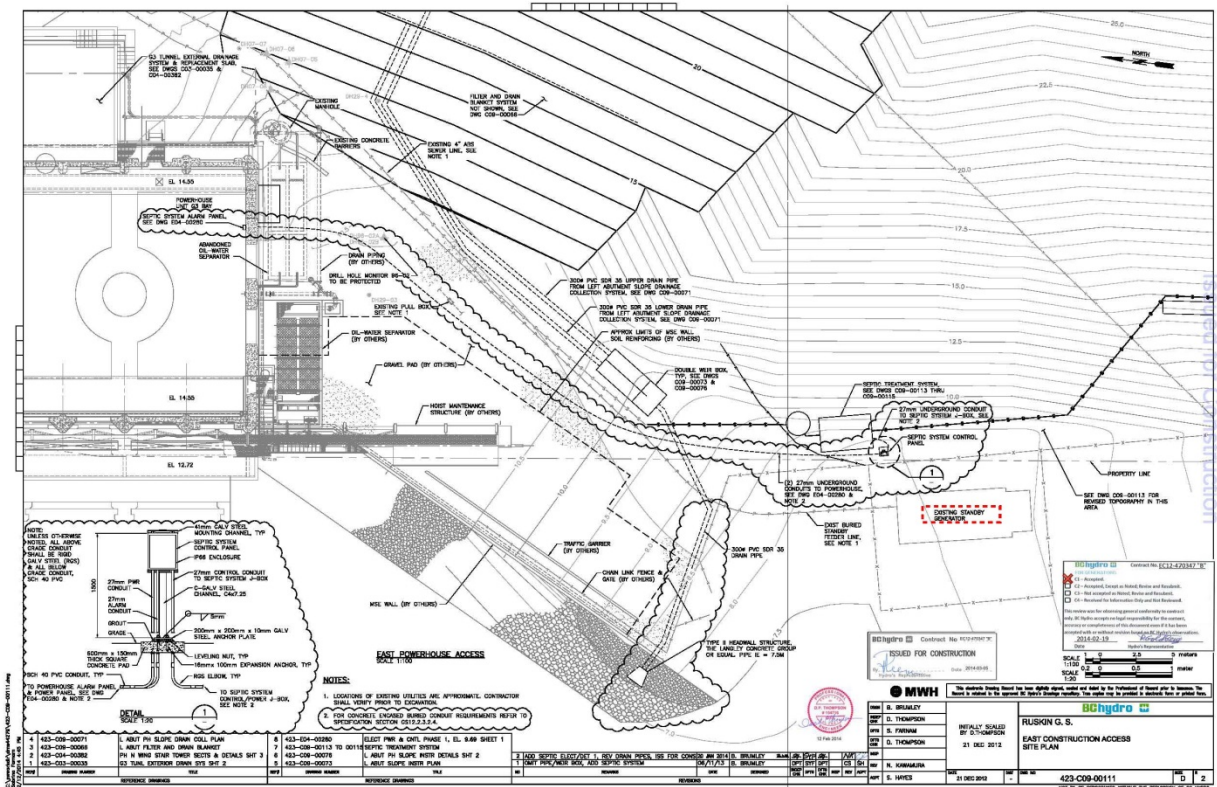
## Boom Design







Industrial Area



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