

## **SITE C CLEAN ENERGY PROJECT**

# **Component Application Package – Cache Creek Temporary Access Bridge**

### **Notice of Work**

### **For Canadian Navigable Waters Act**

**April 24, 2020**

**Submitted to:**

Transport Canada  
Navigation Protection Program  
Suite 1100 - 1166 W Pender Street  
Vancouver, BC V6E 2R9

**Submitted by:**

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Vancouver BC V6E 4M3

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## Site C Clean Energy Project – Cache Creek Temporary Access Bridge

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### 1 INTRODUCTION

The Canadian Navigable Waters Act (CNWA) came into force on August 28, 2019. The CNWA includes a Schedule of navigable waters requiring regulatory approval for works that risk a substantial interference with navigation. Cache Creek is a tributary to the Peace River and is not a CNWA Schedule watercourse. This application for approval under the CNWA is submitted for a temporary bridge crossing over Cache Creek. The bridge is planned for a location ~590m upstream of the existing Highway 29 bridge (See map Figure in Appendix A).

This approximately 50m-long bridge would cross the future Cache Creek diversion channel, a constructed riprap channel where flows will be re-routed during construction of highway replacement bridge (CNWA approval # 2019-501239). The construction access bridge would have a 0.5 m clearance above the 20 year flood elevation and would pose a restriction to navigation once installed. This construction access bridge will be removed after the highway bridge is constructed and prior to the Site C reservoir filling. The design drawing showing the bridge and the diversion channel is included in the Appendix B.

#### *Location and Land Description*

The proposed access bridge location coordinates are 56.274725 -121.239717. The works would be located on Crown land with the following description:

The North West 1/4 of Section 10 Township 84 Range 21 West of the 6th Meridian Peace River District Except Plans 24410 PGP38491 EPP67084 and EPP67083

### 2 HIGHWAY 29 REALIGNMENT BRIDGE REPLACEMENTS – PRELIMINARY CONSTRUCTION SCHEDULE

The access bridge would enable machine access across the Cache Creek diversion channel to facilitate construction of the highway bridge. The following information on the preliminary construction schedule for each of the Highway 29 bridge replacements is provided for context to support this application that is specific to Cache Creek.

As described in Section 4 of the Site C Environmental Impact Statement (EIS), Highway 29 connects Hudson's Hope to Fort St. John and runs along the north side of the Peace River. It is a two lane rural arterial undivided highway under the jurisdiction of the BC Ministry of Transportation and Infrastructure (BCMoTI). Creation of the reservoir will require realignment of approximately 30km of existing highway at Lnyx Creek, Dry Creek, Farrell Creek, Halfway River and Cache Creek. Bridges sited at these locations will have to be replaced. In anticipation of the potential future navigation use, the vertical and horizontal clearance requirements to support navigation, as mandated by the CNWA, have been taken into account in the bridge design.

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The preliminary construction schedule for the Highway 29 realignment and bridge replacement is outlined below.

**Table 1: Preliminary Construction Schedule - Highway 29 Bridge Replacements**

Bridge	Commencement	Completion
Halfway River	Late Summer / Fall 2019	Fall of 2022
Cache Creek	Late Fall / Winter 2019	Fall of 2022
Farrell Creek	Summer 2020	Fall of 2022
Lynx Creek	Summer 2020	Fall of 2022

The construction schedule is indicative only and subject to change. The Purpose of the schedule is to illustrate the general sequence of construction activities, but the dates and schedule may change.

The construction access bridge at Cache Creek is planned to begin in August / September 2020.

### 3 PUBLIC BOATER ACCESS

Construction of the nearby highway bridge and associated overhead works will require temporary closures to boater traffic in the Cache Creek section adjacent to the construction access bridge. These closures would be in place for construction tasks that pose substantive hazards to the public in the immediate area.

Communication to boaters ahead of river closures would be done in accordance with conditions in any issued CNWA permit, including use of local newspaper advertisements. All closures and communications would be done by implementing the Site C Public Safety Management Plan.

Signs will be posted on the north bank of the Peace River to alert approaching boaters that there is a bridge ahead.

### 4 CONSULTATION

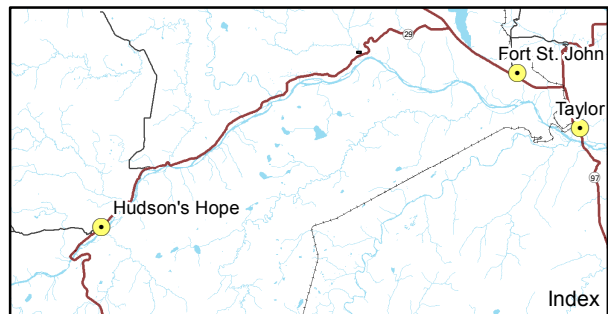
Consultation with Indigenous groups regarding the Cache Creek diversion channel and access bridge was presented during the Permitting Forum held in September 11<sup>th</sup> 2019 in Fort St. John.

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## Site C Clean Energy Project – Cache Creek Temporary Access Bridge

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### Appendix A. Overview Figure of Cache Creek Temporary Access Bridge



Map Notes:  
 1. Datum: NAD83  
 2. Projection: UTM Zone 10N  
 3. Base Data: Province of B.C.  
 4. Imagery: Sep. 2019 Lidar.

- Legend**
- Temporary Access Bridge
  - Proposed Diversion Channel
  - Diversion Channel Linework
  - Access Roads

1:1,500 0 50 m



**Cache Creek Temporary Access Bridge  
 Canadian Navigable Waters Act  
 Notice of Work**

Date	Apr. 23, 2020	DWG NO	1016-N11-00821	R 0
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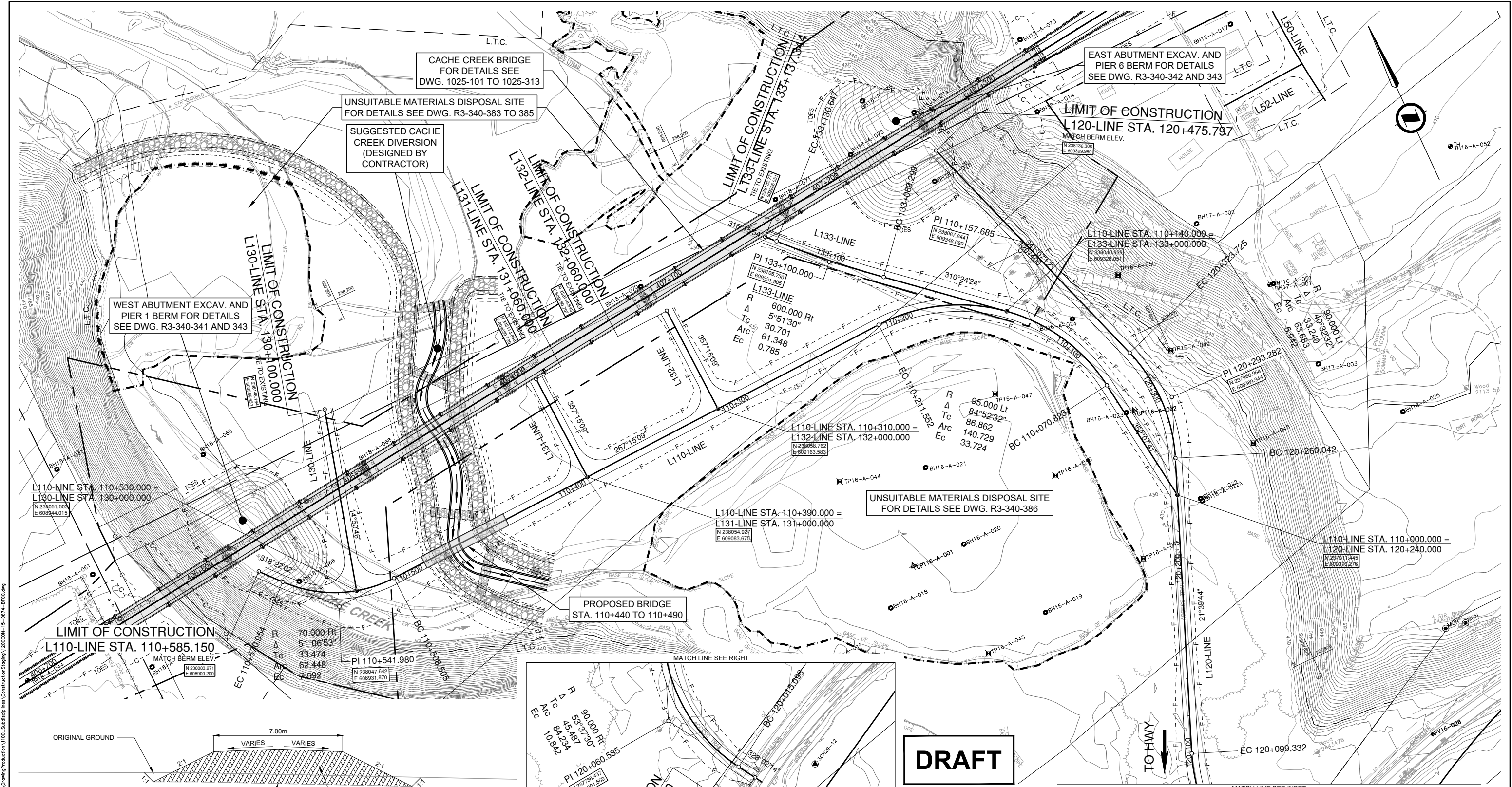
Construction of the Site C Clean Energy Project is subject to required regulatory and permitting approvals.

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**Site C Clean Energy Project – Cache Creek Temporary Access Bridge**

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**Appendix B Cache Creek Diversion Channel and Temporary Access Bridge Design Drawing**



L110-LINE STA. 110+530.000 =  
L130-LINE STA. 130+000.000  
N 238051.503  
E 609844.015

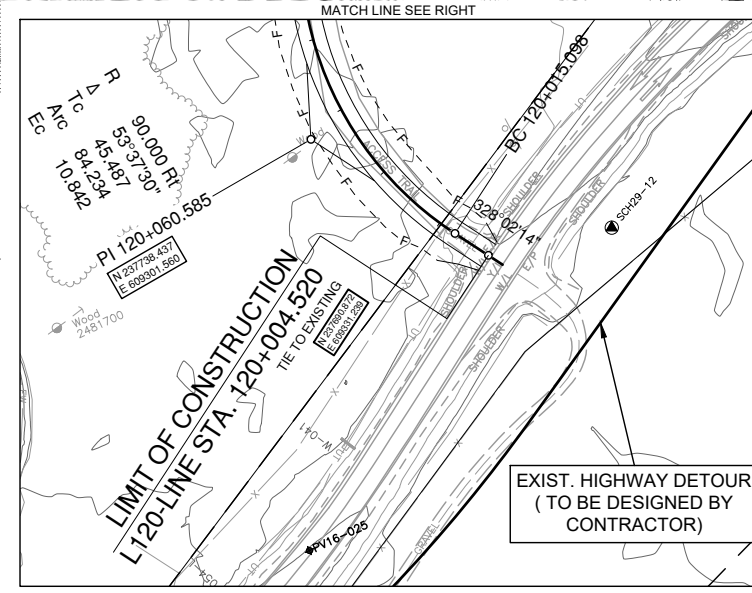
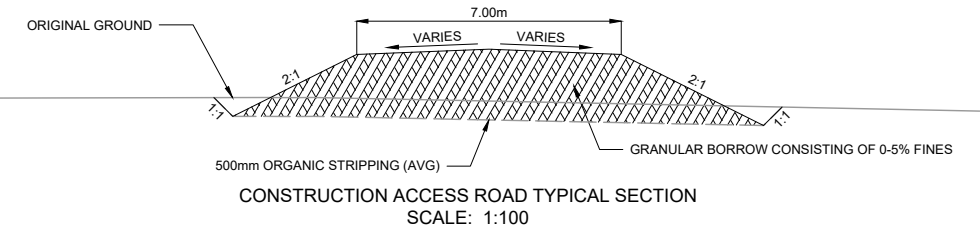
L110-LINE STA. 110+390.000 =  
L131-LINE STA. 131+000.000  
N 238054.327  
E 609883.675

L110-LINE STA. 110+140.000 =  
L133-LINE STA. 133+000.000  
N 238040.933  
E 609328.031

L110-LINE STA. 110+000.000 =  
L120-LINE STA. 120+240.000  
N 237911.445  
E 609378.276

LIMIT OF CONSTRUCTION  
L110-LINE STA. 110+585.150  
MATCH BERM ELEV.  
N 238083.271  
E 609800.200

PI 110+541.980  
N 238047.642  
E 609931.870



- NOTES:**
1. CONTOURS SHOWN ON BERMS ARE FINISHED SURFACE.
  2. ACCESSES ARE FOR DISCUSSION PURPOSES ONLY.
  3. STABILITY OF CONSTRUCTION ACCESS ROADS TO BE CONFIRMED BY CONTRACTOR.
  4. NO LARGE WOODY DEBRIS WILL BE PERMITTED IN THE DIVERSION CHANNEL.
  5. CONTRACTOR TO PROVIDE APPROPRIATE SIZED SETTLEMENT PONDS.

**FOR REFERENCE ONLY**

**100% DETAILED DESIGN - FEB. 25, 2020**

**DRAFT**

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MINISTRY OF TRANSPORTATION  
AND INFRASTRUCTURE  
HIGHWAY ENGINEERING  
NORTHERN REGION

SCALE 0 10 1:1000 50m  
CAD FILENAME 1200CON-15-0674-BFCC.DWG  
DATE 2020-02-26

**SUGGESTED BRIDGE BERM ACCESSES - PLAN**  
HIGHWAY No. 29  
BEAR FLAT - CACHE CREEK

REV	DATE	REVISIONS	SIGNATURE
FEB. 25, 2020		DRAFT - ISSUED FOR REVIEW	

DESIGNED	DATE	FEB. 2020			
QUALITY CONTROL	DATE				
QUALITY ASSURANCE	DATE				
DRAWN	DATE				
SENIOR DESIGNER	DATE				
DATE	FILE NUMBER	PROJECT NUMBER	REG	DRAWING NUMBER	REV
	15-0674	37249-0006	NR	R3-340-1201	

Feb. 25, 2020 - 1:38pm P:\2015\15-0674\05 - CAD Files\02\_03\_BFC2\_Design\Drawing\Production\1100\_SuggestedBermAccessesPlan\1200CON-15-0674-BFCC.dwg