

SITE C CLEAN ENERGY PROJECT

Component Application Package – Lynx Creek Temporary Access Bridge

Notice of Work

For Canadian Navigable Waters Act

May 22, 2020

Submitted to:

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

Submitted by:

BC Hydro and Power Authority
Site C Clean Energy Project
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Vancouver BC V6E 4M3

Site C Clean Energy Project – Lynx 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. Lynx 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 Lynx Creek. The access bridge is planned for a location ~30 m upstream of the existing Highway 29 bridge, and 310 m upstream of the Lynx Creek confluence with the Peace River (See map figure in Appendix A).

The access bridge would be approximately 35 m long and would likely be supported on concrete blocks at the abutments and pile supported at the pier. A conceptual drawing is provided in Appendix B which shows a two span bridge structure, The exact configuration of the bridge would be subject to the Contractor's design and availability of existing bridge stock . The construction access bridge is designed to pass the 1 in 10 year flow with 0.5 meters of freeboard 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.

Location and Land Description

The proposed access bridge location coordinates are 56.067649 -121.843542 (see Appendix A map figure). The works would be located on Crown land with the following description:

Lot 13 Block A Section 33 Township 81 Range 25 West of the 6th Meridian Peace River District Plan 12597

Lot A Section 33 Township 81 Range 25 West of the 6th Meridian Peace River District Plan 14321; and

Portions of Highway 29 and highway Right of Way located in Section 33 Township 81 Range 25 West of the 6th Meridian Peace River

2 HIGHWAY 29 REALIGNMENT BRIDGE REPLACEMENTS – PRELIMINARY CONSTRUCTION SCHEDULE

The access bridges would enable machine access across the Lynx Creek 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 Lynx 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 (BC MoTI). Creation of the reservoir will require realignment of approximately 30km of existing highway at Lynx 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

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clearance requirements to support navigation, as mandated by the CNWA, have been taken into account in the bridge design.

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 of the access bridge at Lynx Creek is planned to begin in August / September 2020.

3 PUBLIC BOATER ACCESS

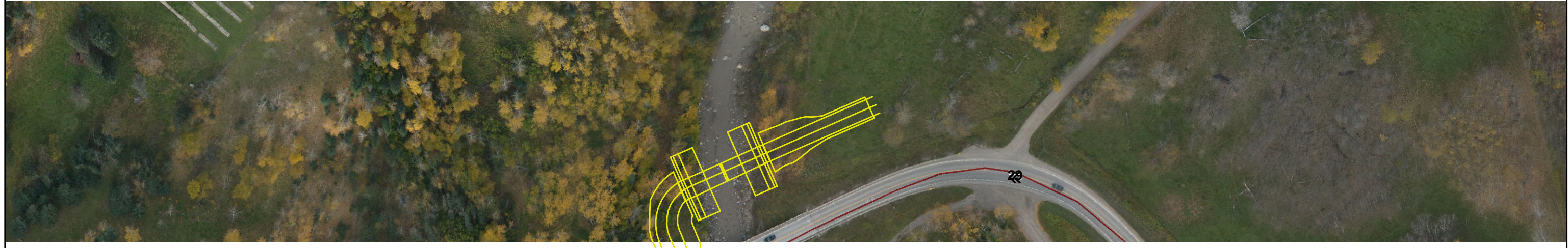
Construction of the nearby highway bridge and associated overhead works will require temporary closures to boater traffic in the Lynx Creek section near to the construction access bridge. These closures would be in place for construction tasks that pose substantive hazards to the public in the immediate area. Following completion and transfer of traffic to the new bridge, the existing bridge will be demolished to allow completion of riprap protection along the reservoir edge. These works will also pose a substantive hazard to the public and will required closures to complete the work.

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.

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Appendix A. Overview Figure of Lynx Creek Temporary Access Bridge



Lynx Creek

Legend

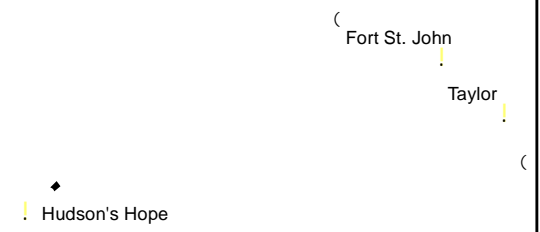
- Temporary Construction Access Bridge
- Existing Highway

1:1,500 0 50 m

| | | | |
|--|---------------|--------|----------------|
| Transport Canada Notice of Work | | | |
| Lynx Creek Temporary Construction Access Bridge | | | |
| Date | May. 21, 2020 | DWG NO | 1016-N11-00865 |
| | | | R 0 |

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

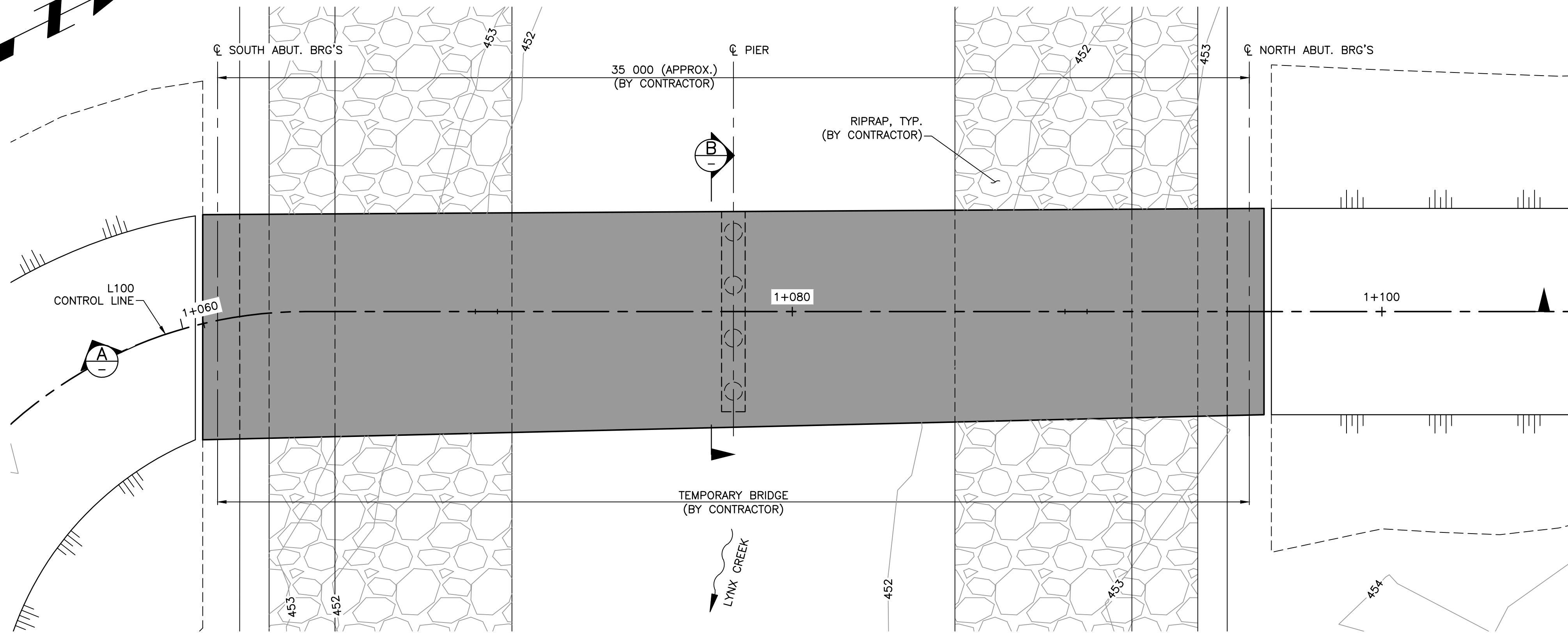
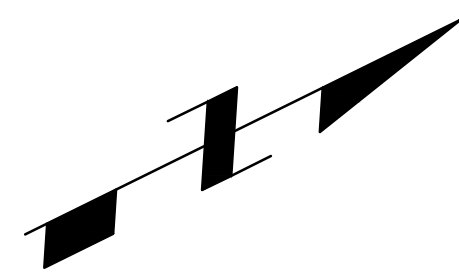
Index



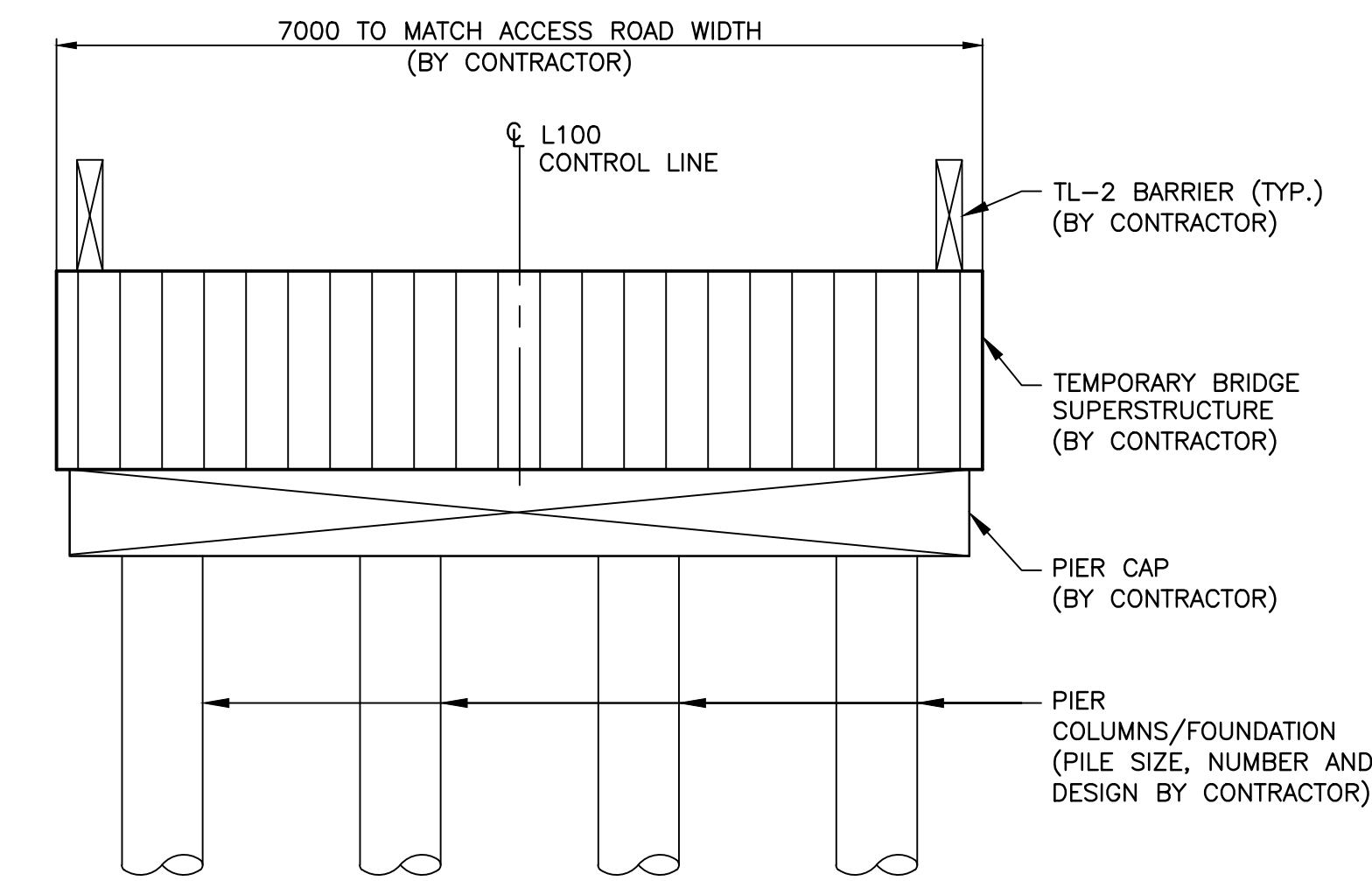
Path: X:\ArcGISProjects\Permitting\Federal_Permits\NavPro\Act\Lynx\CK_TempAccessBridge_1016_N11_00865.mxd

Site C Clean Energy Project – Lynx Creek Temporary Access Bridge

Appendix B Lynx Cr Temporary Access Bridge Design Drawing



PLAN
SCALE 1:100



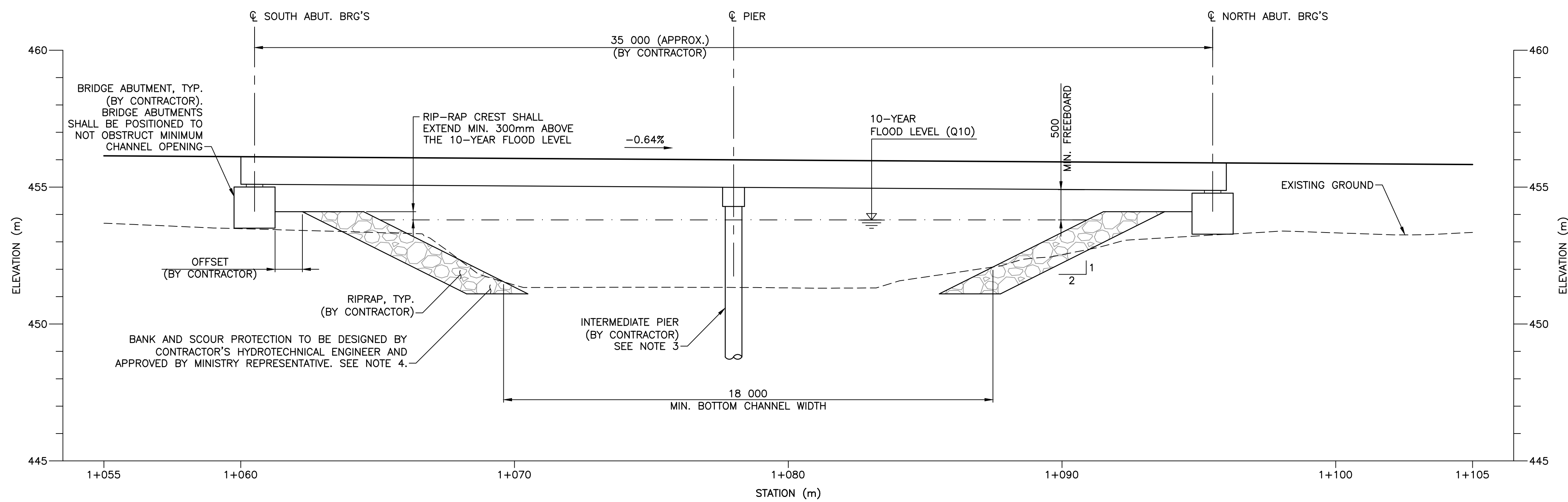
SCHEMATIC SECTION B
SCALE 1:50

REFERENCE NOTES:


1. BASE MAPPING CREATED FROM LIDAR INFORMATION PROVIDED BY BC HYDRO IN AUG. 2015 AND FIELD SURVEY PERFORMED BY BINNIE FROM 2011, 2017, AND 2018.
2. BRIDGE ALIGNMENT AND ELEVATIONS TO BE DESIGNED BY CONTRACTOR AND CONFIRMED PRIOR TO CONSTRUCTION DETAILED DESIGN.
3. THE DETOUR BRIDGE CONFIGURATION, NUMBERS OF SPANS AND RIPRAP TREATMENT, ETC. ARE SUBJECT TO CHANGE AND DEPENDENT ON THE FINAL DESIGN BY THE CONTRACTOR. THE EXTENT OF INSTREAM STRUCTURAL ELEMENTS SHOWN (E.G. PIERS AND RIPRAP) ARE ANTICIPATED TO BE THE MAXIMUM AQUATIC IMPACTS.
4. RIP-RAP SPECIFICATIONS AND INSTALLATION SHOULD CONFORM TO THE MINISTRY STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION SS205.

NOTES:

1. DESIGN - CSA S6:14 CHBDC
2. LOADING - BY CONTRACTOR
3. INTERMEDIATE PIERS, IF USED, SHALL BE LOCATED OUTSIDE OF THE LOW FLOW CHANNEL.

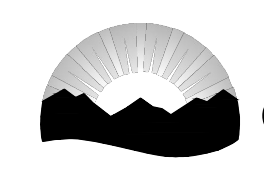


SECTION A
SCALE 1:100



| Rev | Date | Description | Init |
|-----|----------|-----------------------|------|
| A | 30/04/20 | ISSUED FOR PERMITTING | JD |

REVISIONS



BRITISH COLUMBIA

Ministry of Transportation & Infrastructure
Northern Region

NORTHERN REGION
HIGHWAY No. 29
LYNX CREEK TEMPORARY CONSTRUCTION ACCESS BRIDGE
GENERAL ARRANGEMENT

| | | | | | |
|---------------------------------|-------------|----------|------------------|------|----------|
| PREPARED UNDER THE DIRECTION OF | | DESIGNED | AK | DATE | 30/04/20 |
| JACEK DONIEC | | CHECKED | JD | DATE | 30/04/20 |
| ENGINEER OF RECORD | | DRAWN | SH | DATE | 30/04/20 |
| DATE | | SCALE | NEGATIVE No. | | |
| FILE No. | PROJECT No. | REG. | DRAWING No. | | |
| | 37504-0002 | 3 | 2327-DWG-001 A | | |

DATE: 2020-05-01 4:24pm (BorisM)
 LAYOUT: General Arrangement
 H:\30813-e(07-20)